



HONORS RESEARCH WEEK 2023

Presentation Abstracts

— *Listed alphabetically by last name* —

Abdulla, Daniella

Media: Which Side of the Sword is Humanity On?

The thesis focuses on the relationship between society and the media through a close examination of the effects of media on the Middle East, more specifically, Egypt. Fundamentalist ideology including sexism, violence and preaching against immorality pervades the media. I examine the television shows that come out during Ramadan such as the Arabic versions of *Suits* and *The Godfather*, and talk shows, as well as social media reactions to societal issues. The popularity of these shows encourages mob attitudes toward violence and sexism. For example, after the murder of a woman who refused to marry her neighbor, social media began to defame her for her lack of modesty on her own social media accounts to exonerate her murderer. My research concludes that powerful interest groups harness public opinion to keep Egyptian society ignorant and drive it deeper into extremism.

Abunaseef, Malak

The Effectiveness of Nursing Interventions in Psychiatric Crises

Incidences of psychiatric crises have been presenting at an alarming rate in the ER. Patient feedback confirmed a lack of adequate services provided and unsatisfactory patient care experiences in the ER. The surge in emergency psychiatric care and the consequential inefficient mental health outcomes have encouraged the development of this integrative review. This review identified nursing interventions used in psychiatric emergencies, and investigated the evidence that proved their competence in achieving optimal health outcomes. CINAHL, Gale, Google Scholar, and Medline along with PRISMA guidelines and the researcher's criteria were used in selecting appropriate reviews. Peer-reviewed studies took place in the ED, included participants like ER nurses/ patients, reviewed patients' feedback, and discussed nursing interventions used in the ER. The results revealed that psychiatric symptoms were of second priority and nurses were found to have internal biases, limited time, and education that had consequent unfavorable outcomes from inadequate communication/ treatment.

Aguilar, Angel

Does Making, Looking, or Reading About Artwork Work Better for Reducing Anxiety?

This study examined whether making art, reading about art or looking at art provided more relief of anxiety symptoms. Participants completed an online survey in three groups, either making art, looking at art, or reading about art, followed by two brief anxiety measurements. Analyses showed that participants had difficulty completing the making art condition, so data collection in that condition is ongoing. There were no differences between the looking at and reading about art conditions.

Almeida, Gabriela

Examination of Adrenal Stress Hormone During Pregnancy in Autistic BTBR Mice: effect of Gestational Hormones on Development of ASD

Autism spectrum disorder (ASD) is an extremely complex developmental disorder, caused by environmental and genetic factors. This project followed the course of a pregnancy, in both BTBR and C57 mice, while collecting fecal samples used for analysis of cortisol levels. Cortisol is an essential hormone in pregnancy, however, in abnormally high values it can be detrimental to neurodevelopment. In analyzing the maternal cortisol levels in these two different mouse strains throughout the length of pregnancy, the aim was in determining if there is a significant difference in the amount of hormone present, and whether cortisol can be listed as a potential biomarker for early detection of autism. Results showed a significant difference in cortisol levels across BTBR gestational pregnancy. However, when compared to the cortisol absorbance levels across the C57 gestational period, there was shown to be no statistical significance. It can therefore not be concluded whether cortisol is a potential biomarker for autism.

Alvarez, Isabela

The Impact of Childhood Emotional Neglect on Adulthood and the Next Generation

When a child's emotional needs are not met, they may not know how to deal with emotions in adulthood. When children experience emotional neglect, they did not have a parent that was there for them emotionally. These children can have a hard time connecting with other people later in life, including their own children. This could lead to having their children experiencing Childhood Emotional Neglect (CEN) as well. The current study seeks to determine if parents who had experienced some sort of childhood emotional neglect continue the emotionally neglectful habits with their own children. They were given online surveys in which they were first provided with questions regarding their childhood experienced with their parents. They were then asked to answer questions about their own parenting habits and style. There was a moderate correlation between the two variables, $r=0.381$, $p=.020$. The relationship that the participants had with their parents was reflected in their relationship with their children.

Andujar, Amanda

How Emotional Neglect Influences Insecure Attachment and the Formation of Relationships Throughout Adulthood

Childhood neglect can affect brain development during the early years and lead to psychological problems later in life, such as cognitive impairment and emotional dysregulation. In addition, there is an increased likelihood of children experiencing impaired

social skills, mood, attachment, and behavioral disorders, as well as dysfunctional relationships. It is important to understand how crucial early childhood development is when nurturing a child and the importance of environmental and genetic factors. The purpose of this review is to understand how emotional neglect influences a child's attachment style and its long-term impact on relationship formation.

Antoci, Claudia

The Psychological and Social Benefits to Gardening

Gardening has always been a popular activity worldwide, but as a result of the COVID-19 pandemic, gardening exploded in popularity. According to research by Scotts Miracle-Gro and Wakefield, as of 2022, "over half of the country, 55% of American households, are engaged in gardening activities" (Mariotti, 2022). "This translates to 71.5 million gardening households, or 185.9 million individuals. People garden for a number of reasons. For healthy food, beauty and aesthetics, exercise, stress relief, family time, economic benefits, or time in nature. This study seeks to analyze self-reported data from gardeners on why they garden and what benefits they noticed, if any. This study also seeks to identify different types of gardeners through studying any correlations between individuals' personalities and their gardening related responses. Results will be analyzed in order to show more understanding of this important pastime.

Arias Garcia, Shaina

Examination of the Central and Lateral Amygdala in the BTBR mice model of ASD

Autism is a spectrum disorder that cannot be categorized, however, there are three core symptom clusters that make a predominant appearance in those with ASD: social interaction, communication discrepancies, and ritualized repetitive behaviors. For this study, a strain of mice that exhibit autistic like behaviors commonly seen in those with ASD, identified as the BTBR T+tf/J (BTBR) mice, have been chosen to examine a possible endocannabinoid system and its connection to autism. Force swim test and spontaneous wheel running activity were used to monitor cannabinoid-induced behavior changes and administration of MDMA, Methamphetamine, or MPTP were used to analyze behavior and neurochemical differences in the BTBR mice model. Significantly heightened basal locomotor activity was recorded in the spontaneous wheel test within the male BTBR when compared to C57BL/6J. SWR behavior was not altered after administration of MDMA or MPTP within the BTBR strain, but MPTP did show diminished behavior in SWR in C57 mice.

Aristil, Courtnee

COVID-19 Epidemic Effects on Educational Outcomes Among Young Children in the U.S. with Adverse Childhood Experiences (ACEs)

Adverse childhood experiences, ACEs, are severe childhood traumas that have lasting effects into adulthood. Prolonged exposure to ACEs can damage children's developing brains and bodies and affect their mental health. Victims of ACEs, particularly young children, carry their traumas, which eventually affect their functioning. This research aims to investigate the effect the COVID-19 epidemic had on the educational outcomes of young children with ACEs. A scoping literature review will be done to determine key findings, and ideas for future research, public health interventions, and mitigation of ACEs in young children. Understanding how ACEs may have affected educational outcomes during Covid-19 may help identify strategies to support young children struggling with ACEs.

Baker, Haylee

Insect Response to Small Scale Succession and How Foraging Declines as Temperature Drops

My research investigated ant succession and foraging patterns when a foreign food source was added into their environment. Over three months, I visited the same area on the campus of William Paterson University and put index cards out, some with honey on them and others with canned tuna. The different food groups allowed me to compare the insects' food preference (meat vs sugar/carbohydrate). Two ant species were consistently found at the site of the research: *Formica pallidefulva* and *Myrmicinae*. As the months went by and the weather changed, I was able to evaluate their foraging patterns. Peak foraging was during September, and the preferred temperature for foraging is between 60°F and 75°F. *Formica* ants lasted longer into the fall, while the *Myrmicinae* were only common during a short window of time. This analysis provides a basis for future study of local ant species during fall and winter seasons.

Basta, Ruth

Wellness in Bedside Nursing

2020 will forever be labeled as the year changed by COVID-19. Burnout was one of the many words mentioned in this treacherous year. This study examined the correlation between burnout levels and self-care in bedside nurses in New Jersey. Data was collected using anonymous surveys utilizing the Mindfulness Self Care Scale (MSCS) and Maslach's Inventory Burnout (MBI). Surveys were sent to nurses belonging to the New Jersey State Nurses Association. The sample consisted of 77 responses. A key finding between Mindful Awareness and Burnout was found. A simple linear regression was performed and was statistically significant at, $p < 0.05$. There was a negative correlation found between the two variables, $r = -.227$, $n = 77$, $p < 0.05$. Therefore, this study shows

that nurses who practice mindful awareness have decreased levels of burnout. Therefore hospitals and other employers should consider implementing Mindfulness Based Stress Reduction training for their staff.

Belar, Brianna

Racial and Ethnic Disparities in Health Care and Preventative Service Access in New Jersey

Studies have shown that minority groups are disproportionately affected by infectious and chronic diseases in part due to historical and current exposure to structural racism. One documented outcome of structural racism in the United States is disparities in access to health care. However, there is inadequate information regarding racial disparities in health care and preventative services access in New Jersey. The purpose of this descriptive epidemiology study is to identify the magnitude of health care and preventive service disparities among racial groups in New Jersey. This study will present key findings on health care and preventive services disparities in New Jersey by race/ethnicity. It will also indicate if disparities for each group have worsened or improved over the last decade. Lastly, the study will examine any possible associations between health care access in high-income versus low-income counties.

Bishop, Lindsay

How Adverse Childhood Experiences Impact Academic Performance and Stress Levels in College Students

The focus of the study was to examine the effects of adverse childhood experiences (ACEs) on academic performance and stress levels in college students. Participants in the study included college students attending multiple universities. Students responded to an online Qualtrics survey, which asked questions relating to ACEs, academic performance, and stress levels. ACEs were measured using the Adverse Childhood Experience Questionnaire, academic performance was measured by self-reports of GPA, and stress levels were measured by the Perceived Stress Scale. The anticipated results of the study are that higher ACE scores have both a negative correlation to academic performance, and a positive correlation to stress levels. This research contributes to this growing field, as it aids in the understanding of how ACEs affect various factors in young adult life and in identifying solutions to issues that ACEs contribute to.

Black, Nyla

The Effects of Attachment Styles on Interpersonal Relationships

The attachment theory created by John Bowlby and Mary Ainsworth proposes that the quality of infants' attachment to their mothers would cause distinct reactions in situations where the infant and mother are separated. These reactions develop into attachment styles which will affect the type of relationships one has throughout life. According to the theory, there are 4 types of

attachment styles: secure, anxious, avoidant, and disorganized. A secure attachment style is most sought after as these adults tend to have high self-esteem and effective communication skills in relationships. The other three "insecure" attachment styles are less desirable as these adults are more fearful in relationships. The goals of this literature review are to show how these styles can affect someone's platonic, romantic, or familial relationships and to determine whether the attachment theory's impact on relationships has been sustained. Understanding your attachment style can help improve the quality of your relationships.

Botros, Melody

Depressed and Anxious Adolescents, Coping Mechanisms, and Their Effectiveness

Adolescents utilize a variety of coping mechanisms when dealing with anxiety and depression. These coping mechanisms can either alleviate or worsen the symptoms, depending on what type of strategy is used. In this integrative review, current literature was examined to determine the different kinds of coping mechanisms utilized by depressed and anxious adolescents, and how effective they are in the short and long term. The PRISMA flowchart was utilized to identify articles, mainly from the CINAHL database. The criteria for eligibility included being published in 2014-2022, written in the English language, and centered around depressed and anxious adolescents aged 11-19. The ten studies were both qualitative and quantitative. Results revealed that active coping mechanisms improved symptoms while avoidant coping mechanisms did the opposite. Depressed adolescents are also more likely to utilize avoidant strategies than anxious adolescents. This information can be used to perfect patient care amongst depressed and anxious adolescents.

Braun, Jason

Thermophobia

This honors project is a concept album. Originally composed using guitar and recorded on an iPhone, the current project is a reworking of this material, with a full band arrangement and recorded with high-quality equipment. This creates a product that is more passable as a professional recording. The music is based on the final song, which was expanded and developed into 6 tracks over an approximate 50 minute album. Each song retains a piece of the final track both lyrically and musically, which ties the whole work to the theme of heartbreak and dreams. The thesis details the process of writing the music, the inspiration for the music and themes expressed in the album, and the experience of forming the band, and arranging and recording the music.

Bronico, Lauren

The Role of Social Media in Public Relations

Social media has completely evolved the role of public relations and the two fields are now codependent of one another. Within

the last two decades, companies have had to completely reevaluate their public relations tactics, considering the newfound importance of social media. However, not all companies have succeeded in adapting to the quick-paced and often tumultuous navigation of social media. Messages can easily be misinterpreted on social media and having a crisis management plan in place for social media catastrophes is now just as important as knowing how to produce successful social media content. The examination of several case studies of companies who successfully, and not so successfully, navigated this new terrain allows us to learn from their successes and mistakes.

Burrough, Kathleen

Saving Art History

This thesis argues that art history constitutes a rich and vital part of human culture that – in recent years – has been endangered by forces from within and outside of the discipline. A review of recent commentaries by art history scholars introduces the idea that the field is “in crisis,” and after examining the internal and external dangers confronting art history at a national and international level, we turn to an in-depth look at the circumstances surrounding the decimation of a department of art at a northeastern state university. To understand that situation, we incorporate data from a survey from that university’s art history professors in order to have a broader understanding of a national issue.

Cagandahan, Carla

Progression of Mathematics and Art

Once we look at nature, we may not see how math designs nature around us, how it shapes the roads we walk on, the flowers we smell, and the light we bask in. Math creates balance and design that our eyes find pleasing. This communication between mathematics and art is evident, and must be explored. My thesis project emphasizes this mathematical system and the mathematicians who promote it. Within this project I will draw Euclid, Descartes and Newton, Galois, and Lorenz; each piece exemplifies their mathematical contributions to art. I push my artistic ability by venturing into artforms and mediums I am unfamiliar with. This project reflects these mathematical intricacies as integral for all art forms—many artists are familiar with tangents, symmetry, ratios, etc, but are unfamiliar with its mathematical background. In sum, this series is a progression of not only artistic growth, but a commentary on the evolution of mathematics and its impact on artistic expression.

Carcich, Hannah

Ellie’s Academy Business Analysis

Ellie’s Academy is a rising modern early development and childcare center located in Somerville, Edison, and Monroe, New Jersey. In this practicum project, we conducted a comprehensive

business analysis of Ellie’s Academy by assessing the childcare industry, its competitors, and various aspects of business operations including management, marketing, and finances. We further identified several critical risk factors that the owners of Ellie’s Academy should consider when expanding their business into different locations. Based on our thorough analysis, we deliver future strategies to catalyze and sustain Ellie’s Academy’s long-term growth.

Carter, Mikayla

How Having a Narcissist as a Parent Can Affect Their Child’s Development

This thesis describes what a narcissist is, explains the research on different parenting styles, and reviews empirical research studies about children/adults who had parents who were either diagnosed as narcissists or have several narcissistic traits. Research shows that children whose parents have a narcissistic personality disorder or have a strong presence of narcissistic traits develop depression and anxiety at a much higher rate than children whose parents do not display these traits. This has been seen in children ranging from preschool age all the way to college-level adults. This topic and these findings are essential because with early intervention we can help protect the children of narcissists from the potential damage their parents can inflict. The more awareness that the general public has, the more people can potentially step in and be a safe space for children whose homes are chaotic as the result of their parents and their parenting style.

Cassidy, Ryan

Olde Granddad Industries Consultation Plan

The purpose of this business practicum project is to provide consultation services to Olde Granddad Industries, an auto parts and accessories company based out of Paterson, New Jersey. The company specializes in manufacturing and distributing car supplies and accessories to car washes and similar dealers, with a centralized focus on the tri-state area. To help the company to grow its sales revenues and outperform its competitors both locally and regionally, we analyzed various aspects of the current business operations including management, marketing, sales, and finances. In our examination, we identified needs of competitive distinction, opportunities for regional expansion, and increasing efficiency of operations. Based on our analyses, our proposals address several actionable strategies regarding increasing marketing outreach, sales team recruitment, warehouse worker retention, and revamped and organized bookkeeping and finances. We expect our proposal to cultivate Olde Granddad Industries’ competitive advantages and sales revenue within the industry for the future.

Castillo, Mary Leanne

Ranking, GRE, and Diversity Support: What Affects Minority Undergraduates Choices of Health Sciences Graduate Programs?

The health professions face a public-health crisis due to the lack of minority representation among clinicians; a key solution is educating more diverse students. To recruit more minority students into health professions, it is important to understand what draws minority students to a program. This study focuses on five health science fields, Speech-Language Pathology, Occupational Therapy, Physical Therapy, Psychology, and Physician's Assistant. Fifty-eight undergraduates were presented with eight brochures to theoretical graduate programs which all contained the same requirements except for three changed factors: ranking, GRE requirement, and minority-support services. Participants were asked to choose only five, then rate their confidence on being accepted as well as their confidence in succeeding in their chosen programs. This study explores the relationship between the three factors, participant demographics, and how they influence minority students' graduate program choices.

Chapman, Justyn

Through the Eyes, Ears, and Mind

Words and music, used as means of expression, evoke emotion that has the power to persuade, influence, entertain, and teach. In this project, spoken word poetry is accompanied by music to indulge listeners in a few experiences of Black America as seen through the writer, Justyn Chapman. Drawing on literary and musical works from notable African American artists, the spoken word poems contain themes that include love, loss, deceit, drug use, and violence. The construction of this project was designed to help understand the dynamic relationship between literary and music components, a relationship that alters the overall mood and tone of the themes expressed. Organized as one continuous narrative, this project will draw readers and listeners into the uncensored experience that isn't necessarily shown in media.

Chavarriaga, Joselin

Coming of Age in Samoa: Misconceptions, Misinformed, and Mocked

When Margret Mead, *Coming of Age in Samoa* first appeared in the late 1920s, it started a revolution in how westerners, not only anthropologists, thought about sexuality. For many, the book suggested that the west needed a sexual revolution and far more permissive attitudes. Beyond this, Mead's work was influential in establishing the contemporary mood of anthropological thought regarding cultural relativism and nature vs. nurture issues. Thus when Derek Freeman's 1983 book suggested that much of Mead's work was deeply flawed and based on misinformation, not only anthropologists were shocked, but the whole world. This thesis analyzes the Mead vs. Freeman controversy and how it has played out over the past four decades.

Cheriyen, Joel

How Machine Learning was Used to Predict Covid-19 Mortality Cases Around the World

The Covid-19 pandemic took millions of lives and forced much of the world to close schools, businesses, and stay indoors. Researchers in many countries utilized a highly sophisticated type of technology: machine learning (ML) to make predictions that help combat the pandemic. This scoping literature review will answer the question of how ML was used to predict Covid-19 mortality. Articles were searched through Medline via ProQuest database and Google Scholar and assessed using the PRISMA method and diagram to screen and identify articles that met the inclusion criteria. Thirty-seven articles were identified and after the duplicates were removed, the rest were screened, and full text was examined to determine the final twenty articles that were used for this research. The data extracted from these articles include background information on each article, the data types and sources, and the benefits and challenges of using ML for Covid-19 mortality prediction.

Chervinsky, Benjamin

Past Athleticism and Physical Activity's Effects on Self-Esteem in Elderly

This study looks to determine if/how sport participation in one's adolescent years impacts self-esteem in their elderly years. Participants were 32 individuals over the age of 65. They answered a 20-item questionnaire that included demographic questions and the Rosenberg Self-Esteem Scale. There were also questions about current and past physical activity participation. Analysis showed that participants who were active when they were young had higher self-esteem scores than participants who were not active when they were young ($t(30)=2.23, p=.017$).

Comia, Helenah

Poetry and Songs for the 12 Astrological Signs

Helenah Comia has created 12 poems, one for each astrological sign, paired with a musical composition based on that respective sign's zodiac element. She has chosen to challenge herself by creating a project using crafts she is not so accustomed to – poetry and musical arranging – with the intent of learning about and gaining experience in these artistic activities. For this project, Helenah looks past questions of astrological legitimacy and highlights the emotional connection a person can have with their astrological sun sign. The sun sign represents how one perceives the world and their morals, strengths, and weaknesses. Helenah hopes that readers look at this creative set with an open mind and note the characteristics of every sign, whether it be their own or of people they know. To achieve the full, immersive experience of this collection, the poems are to be read while listening to the composition.

Contreras, Shamira

Self-Diagnosing Mental Disorders through TikTok

TikTok, a widely popular social media app, has been used to spread information on a variety of topics through the use of posting and sharing videos. A popular topic being highly discussed is mental health, which has started a trend of individuals self-diagnosing based on the information in these TikTok videos. The current study was designed to investigate how TikTok influences people to self-diagnose themselves with mental disorders. A group of college students were asked questions related to Attention Deficit Hyperactivity Disorder (ADHD) and Borderline Personality Disorder (BPD) before and after watching a compilation of TikTok videos that described symptoms relating to these diagnoses. Using paired t-tests, before and after survey results will be analyzed in order to determine whether users recognized symptoms and responses shifted as a result of watching TikTok videos.

Corallo, Samantha

In Your Own Words: A Qualitative Study of William Paterson University Student-Athletes Mental Health Needs

Inquiries into student-athlete's mental health needs have gained traction in recent years. While research has grown, there is little consideration of the needs of student-athletes outside of NCAA Division I. The current study explored the thoughts of NCAA Division III athletes to discover their mental health care needs. A series of open-ended questions about available support and additional need were asked of D3 athletes and are being analyzed using consensual qualitative methods.

Crowley, Taylor

Paterson, New Jersey: A Community's Response to Racialized Policing

The purpose of my project is to provide insight into the lived experiences of African Americans at the hands of local police officers. Through a careful analysis of community policing efforts in Paterson, New Jersey, my thesis demonstrates the racial biases and practices inherent in our justice system. The historical link between policing and white supremacy is critical to the understanding of modern-day police violence toward African Americans. Police misconduct, corruption, and racial profiling are central themes throughout the project, and I seek to draw attention to the inequalities present within our own community. Interviews, films, and literature reviews are essential components of the project which serve to highlight the systemic racism and police brutality that has plagued our country for centuries. Through a close examination of social media posts, I demonstrate activists' thoughts on community policing and show how individuals have turned to social media platforms as outlets for their frustrations.

Cruz, Casey

Trinity: Vampire - A Comic Strip

Trinity: Vampire - A Comic Script and Process is a 50-chapter comic script that will eventually be combined with artwork influenced by manga and manhwa styles to create a comic series. It is a supernatural narrative centering around a boy navigating his life in a world of monsters, forming a hero's journey with themes targeted toward a young adult audience. Using model works and publications from veteran comic writers, the script of this project was drafted with the intention of retaining a strong narrative using comic script methodology retained from industry professional's advice, model works, and a lifetime exposure to the medium of comics. The intent of this project is to create a foundation for a published comic series that will be created post-graduation.

Cruz, Danielle-Gail

Speech Impediments and Accessibility to Treatment: A Global Overview

This study aims to compare how stroke patients are cared for in different countries. By taking into consideration socioeconomic status (as defined by GDP) to differentiate between developing and developed cities/countries, the following data will identify what countries have more accessible care for stroke patients, especially in terms of speech issues, and where treatment is not as accessible. The study also aims to see if stroke outcomes are mediated by the availability of speech therapy. The goals of this study are to: (1) educate the general public on stroke outcomes, especially in relation to speech therapy; (2) demonstrate that stroke outcomes are not equivalent across countries and (3) debunk common misconceptions that stroke outcomes would immediately be worse in lower income areas.

Cusi Ttito, Luz

Olde Grandad Industries Consultation Plan

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De Oliveira, Alex

An Effective Approach to Jazz Guitar Pedagogy

This project discusses specific details that create effective guitar pedagogy with the “beginner student” in mind. Analyzing several guitar instructional sources to find the essential skills a teacher needs to work with their beginner jazz guitar students will be the primary focus of this study. The guitar is unique because it can play single notes like a horn and chords like a piano, harp, and keyed percussion instruments. This ability within the nature of the guitar creates both challenges and versatility. There are specific aspects to focus on that will help the guitar student to improve their technique. The information in this project will guide guitar teachers on what materials are available for teaching jazz guitar for a beginner player and will discuss the pros and cons of each mentioned source.

Demottie, Diana

Impact of Inflation on Firms and Industries

This thesis examines the complex relationship between inflation and economic performance on firms and industries. The study reveals that inflation can have positive and negative effects, depending on various factors such as consumer behavior, supply chain disruptions, and labor market conditions. The research emphasizes the importance of considering multiple factors in determining the impact of inflation on businesses. The findings suggest that inflation can increase consumer spending and demand for goods and services, leading to positive effects on firms' performance, but can also decrease purchasing power and profit margins, negatively impacting firms and industries. Additionally, inflation increases the cost of raw materials and labor, leading to reduced profit margins. The research also highlights that consumer perception of inflation can allow firms and industries to raise prices, increasing profit margins.

Dhar, Jay

Olde Granddad Industries Consultation Plan

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sales team recruitment, warehouse worker retention, and re-vamped and organized bookkeeping and finances. We expect our proposal to cultivate Olde Granddad Industries' competitive advantages and sales revenue within the industry for the future.

Diehl, Laura

What is the Role of Nurses in the Early Recognition of Postpartum Depression?

Postpartum depression is a common yet often overlooked issue that can cause a detrimental impact to women and their families during an exciting period of life. Nurses have the ability to help their patients recognize early signs of postpartum depression. This integrative review explored current literature on postpartum depression in order to conclude different ways that nurses are able to help patients recognize early signs of it. A search for existing literature was conducted via the databases PubMed, CINAHL, and ProQuest, and organized via the PRISMA Flowchart. Articles that were eligible for review were peer-reviewed with evidence-based research on postpartum depression published between 2012 and 2022. From these articles, findings related to the causes and risk factors were analyzed to see correlational factors contributing to postpartum depression that would help nurses for early detection of this illness. Results revealed stress as the most common risk factor for PPD.

Dix, Ehrin

How is Social Media Used by Youth for Advocacy to End Gun Violence?

Gun violence is a critical public health issue in the United States. Both mass shootings and school shootings have been increasing which researchers have attributed to mental health, the contagion effect, and a lack of gun control laws and policies. Public health advocates are expressing the need for an increase in laws and policies to control gun violence due to many negative impacts on health. Youth-led organizations use Twitter to advocate for policy changes as gun violence is now the leading cause of death for young people in the US. This research will examine Twitter accounts of March for Our Lives, Team Enough, and Students Demand Action to investigate how they're presenting the issue of gun violence, who they're addressing, the levels of society their policy proposals are targeting, how mental health and public health are being used to argue for policy change, and to determine the laws and policies that have been enacted as a result of their advocacy.

Dixon, Tara

Sub-Clinical Autistic Traits Correlation to Imitation Tasks

This study examines a possible correlation between sub-clinical autistic traits and imitation of facial expressions in college students. Sub-clinical refers to individuals who have not

presented definite autistic traits or have been diagnosed with Autism Spectrum Disorder. Participants saw images of a demonstrator making emotion expressions and asked to identify the emotion and replicate the facial expression being shown. The participants were asked to take a photo of themselves imitating the facial expression. In addition, the participants took the Autism Spectrum Quotient to determine their score on the autism scale. This research is being conducted to determine if there is a relationship between sub-clinical autistic traits and college students' ability to identify and replicate others facial expressions.

Donnelly, Kaden

Coffee Stained Fate

The end result of this project is a novella. The novella mainly takes place in a modern coffee shop with an ancient and magical twist, where the cafe's intention is to maintain its integrity as a part of a cooperative and productive human society. This novella focuses on communication as an essential element of how art is created and shared. Through interaction with different people in different places and times, we are able to curate ourselves, as well as build the skills to notice unique differences in others. This novella also focuses heavily on the idea of creation. Art as a concept is deeply personal to both the creator and the viewer. Artists can become secluded from their community because their craft is so individual and personal. Creating community between artists, styles, and mediums is a crucial element in maintaining art and its impact on humanity.

Edwards, Allysia

Imposter Syndrome Among Black Women in Business and STEM

Imposter syndrome is a term used to describe high achievers who doubt the legitimacy of their accomplishments and intelligence. This study was designed to investigate the prevalence of imposter syndrome among Black women working in business and STEM fields. Data was collected through a Qualtrics survey that inquired about the participant's demographic information. The survey also evaluated how the participants perceived themselves and their accomplishments through the Clance Imposter Syndrome Scale. A random sample of 200 participants responded to the survey through Amazon Mechanical Turk. Each participant received a small monetary incentive for completing the survey.

Embaby, Asmaa

The Effect of Aerobic Exercise on Memory in People with Cognitive Deficits and Depression

As the population ages, the probability of cognitive and memory deficits increases. Even though aging is inevitable, there is some hope in reducing the progression of cognitive deficiency. This literature review aims to identify the mechanisms by which physical activity can improve memory function. The research will focus on

people affected by Alzheimer's disease, Mild Cognitive Impairment, Dementia, Stroke, Depression, and Traumatic Brain Injury. Memory improves in people with cognitive deficits and depression after aerobic exercise because of increased brain-derived neurotrophic factors (BDNF), neurogenesis, and neural tissue perfusion in the Hippocampus. The efficacy of the exercise-rich lifestyle is worth investigating when looking to improve the quality of life. This review investigates the empirical literature on the benefits of aerobic exercise on memory.

Esperancilla, Angelica

New Graduate/Novice Nurses' Transition to Practice Preparedness

New Graduate Nurses (NGN) are needed now more than ever in healthcare as seasoned nurses are retiring and leaving the profession; NGNs must be properly trained from the beginning. This integrative review examined what factors contribute to NGN preparedness and transition to practice to ensure safe, quality patient care. This study utilized the PRISMA Guide to organize the search for literature. The research was searched through CINAHL, Medline, and PubMed databases. The peer-reviewed studies were published between 2012-2022, written in English, and took place in the United States. Results revealed that mentorships drive NGNs to feel more confident in their careers. This information can be used to improve mentorships in ensuring quality patient outcomes.

Feola, Lauren

The Positive and Negative Psychological Effects and Coping Mechanisms of Siblings of Children with Chronic Illness: An Integrative Review

Siblings of children with chronic illness are at high risk for developing mental illnesses and negative coping mechanisms. This integrative review analyzed the literature on the positive and negative psychological effects and coping mechanisms of siblings of children with chronic illness. Utilizing the PRISMA flow chart guide, a literature search has been conducted using the databases CINAHL, PsycINFO, MEDLINE (via PubMed), and MEDLINE (via ProQuest). Eligibility criteria included literature in English, focusing on the psychological impacts or coping mechanisms of the healthy siblings of chronically ill children, and literature between the years of 2002-2022. A total of 12 articles were used for this review. The findings showed that healthy siblings are at risk for developing mental illnesses, bear negative feelings such as fear and anger, and cope by internalizing. However, some healthy siblings positively coped by supporting their ill sibling and gained positive characteristics such as empathy.

Fernandini, Antonella

Behavior of Students with Speech Language Impairments (SLI) (Grades 1-3)

Children with speech-language disorders/impairments tend

to exhibit troubling social and emotional behaviors. A speech-language impairment (SLI) is a communication disorder that impedes a person's ability to produce spoken communication and understand language. Children with speech disorders have trouble communicating with the world around them, connecting to their environment, and forming relationships. These children also experience bullying that further contributes to impaired language development and negative impacts to their mental well-being. SLI, primarily in school-age children, can make learning difficult and impact the child's behavior. A child with SLI exhibits behaviors that stem from the inability to properly communicate and express their inner thoughts. Through this study, I aim to highlight social and emotional behaviors of elementary-aged students with SLI in efforts to raise awareness towards this area of research and prioritize the mental well-being of these children for effective

Francois, Mark

Analysis of the Effects of Healthcare Professionals' Personal Opinions on Patient Care

In the United States, at least half of the population will be diagnosed with a mental illness during their life. This study sought to analyze and summarize all available research in response to the research question, "What effects do healthcare professionals' mental health-related personal opinions have on patient care?" The articles used for the integrative review of qualitative studies were selected using standardized appraisal instruments. The databases used for the collection of articles were CINAHL (Cumulative Index to Nursing and Allied Health), and Medline (via ProQuest). The literature review was conducted using the PRISMA guidelines. Using the PRISMA guidelines as a tool, the articles were measured for various factors but not limited to content, validity, title, or method. The ten articles analyzed revealed that healthcare professionals' stigma related to mental health disorders affected patients with mental health disorders in a variety of ways.

Gayed, Britney

Is Interrupting Patients' Sleep in the ICU Extending their Stay in the Hospital?

Sleep is essential for mental, social, and physical health and recovery. Hospitals are renowned for interrupting patients while sleeping. Being that patients spend the most critical parts of their recovery in the hospital, specifically the Intensive Care Unit (ICU), one concern is the effect of constant sleep interruption on recovery. An important question is if interrupting ICU patients' sleep prolongs stay and recovery in the hospital. This integrative review examined current research on how interrupted sleep in the ICU can impair recovery in adult patients. The PRISMA guide was utilized through CINAHL, ScienceDirect, and Google Scholar databases. Studies were eligible if they were published in English between 2011-2022, involved adult patients at least 18 years or older, and at least 1 day spent in the ICU or 3 days in the hospital.

The analysis revealed interrupting patients' sleep increased their risk for acquired infections, slower recoveries, and extended hospital stays.

Gilliland, Rebecca

Becoming Becca: A Memoir

Becoming Becca: A Memoir is a coming-of-age story that examines the complexities of growing up with a chronically ill parent. Becca's relationship with her mother infiltrated all aspects of her life, influencing her perception and experience of the world. In her writing, she delves into various psychological aspects of her development, such as adoption, attachment, identity, codependency, trauma, and grief. She further attempts to understand her place in the world within the greater sociological context in regards to race, ethnicity, and social class. Now after her mother's death, Becca is taking this opportunity to tell her story. She hopes that shedding light on the intricacies of being human will inspire others to do the same.

Glaser, James

CRISPR Cas3 Knockout in Marine Bacteria

Karenia Brevis, a toxic dinoflagellate which has been seen to bloom off the west coast of Florida, has also been referred to as the red tide. Co-cultured with *K. Brevis* are a number of marine bacteria which have been isolated and identified. Out of the bacteria present, three of them are of specific interest. *Aquicoccus poryphyridii*, *Boseongicola aestuarii*, and *Roseibium sp.* are of note due to the presence of a CRISPR Cas3 system in their genomes. CRISPR Cas3 systems play a vital part in certain bacterias as it is part of the adaptive immune system. This experiment sets out to prove the presence of the CRISPR Cas3 system in the current strains of the bacteria that we have in culture. Subsequently, after obtaining the sequence for one of the bacteria, the CRISPR array sequence can be knocked out by use of a plasmid utilizing homologous recombination.

Gritsch, Sophie

"I'm not just weird": Impressions of Late Autism Diagnoses in Women

Until very recently, autism spectrum disorder has been primarily studied in boys and men and has often been generally viewed as a disorder which usually affects males. Recent research, however, has shown that there may be a discrepancy between the gender diagnosis ratio and the actual ratio of individuals affected by autism spectrum disorder. The objective of this thesis is to investigate the impacts of missed and misdiagnosis of autism in women, with a focus on the impact of diagnosis on the masking of autistic traits. Adult women were asked quantitative and qualitative questions about their experiences with autism, diagnosis, and masking in order to gain insight into the effects of diagnosis, particularly in adulthood.

Guirales, Fabian

Sleep and Cognitive Decline

The primary objective of this systematic literature review is to analyze the epidemiologic literature on sleep disturbance and cognitive decline to assess the relationship between this exposure and health outcome. MEDLINE was searched for studies and a screening was done based on set inclusion/exclusion criteria. The search terms were “sleep and cognitive decline”, “sleep disturbance and dementia”, and “impact of poor sleep on risk of dementia”. From relevant and applicable papers, data was extracted and analyzed. From studies which met inclusion criteria, there were n=9, which did not provide concrete support for the correlation between poor sleep and the development of cognitive decline or Alzheimer’s disease. While some studies provided support for the correlation between poor sleep and the development of cognitive decline or Alzheimer’s disease, most did not. This presentation will discuss these findings in detail and will make recommendations for future research on this topic. Suggestions for methodological improvement will also be made.

Hall, Christopher

Ellie’s Academy Business Analysis

Ellie’s Academy is a rising modern early development and childcare center located in Somerville, Edison, and Monroe, New Jersey. In this practicum project, we conducted a comprehensive business analysis of Ellie’s Academy by assessing the childcare industry, its competitors, and various aspects of business operations including management, marketing, and finances. We further identified several critical risk factors that the owners of Ellie’s Academy should consider when expanding their business into different locations. Based on our thorough analysis, we deliver future strategies to catalyze and sustain Ellie’s Academy’s long-term growth.

Hampton, Colleen

Analysis of the Effect of Caretaker Role Strain on the Mental Health of Caregivers of Family Members with Alzheimer’s or Dementia

Patients with dementia or Alzheimer’s disease require caregiving as their disease progresses due to an inability to perform activities of daily living (ADLs) and basic activities of daily living (BADLs). The responsibility for caring for these patients typically falls on unpaid family members which can lead to mental strain and caregiver burnout amongst these individuals. This integrative review examined the current literature on the effects of caregiver role strain on the mental health of family caregivers. Using PRISMA guidelines, an electronic search of the literature was performed using the online databases CINAHL, and PubMed and Medline. Eligibility criteria include peer-reviewed and published in English studies

between 2015 and 2022. Nurses can use this information to better understand and provide support and resources to caregivers experiencing burnout so that in turn, better care can be provided to their family members from all team members.

Havlin, Paula

Factors Affecting Turnover Rates in Nursing

High turnover in the nursing profession causes many healthcare issues including negative patient outcomes. This study’s purpose was to better understand the factors that influence turnover, retention, and satisfaction of nurses, by answering the questions: Do nurses intend to leave their current nursing jobs, and if so, why? Portions of the revised Casey-Fink Nurse Retention Survey and McCain’s Intent to Stay Scale were sent to nurses through the New Jersey State Nurses Association. 91 usable responses indicated most nurses intend to stay at their current job, or any it leads to, for at least two to three years or for the rest of their careers. There are statistically significant relationships between intention to stay and recognition/rewards and mentoring subscales. Intended retention increased when satisfaction of patient ratios, schedule flexibility, and manager encouragement increased. Findings serve to demonstrate that when the aspects of healthcare that nurses value most are prioritized, turnover decreases.

Hida, Fazli

Veep: The Folly of American Politics

In television, there are few examples of shows that capture relevant comedic political commentary in a fictional setting that can match the exaggerated tone as the HBO Original show Veep. Programs like The Late Show with Stephen Colbert differ in that they utilize the more straightforward talk show format to get their message across, while ones like The West Wing differ in their depiction of politics as a noble undertaking. In contrast, Veep represents a specific place in television in which fictive and exaggerated yet realistic political scenarios are played out humorously to highlight the absurdity of politics to which Americans are accustomed. My thesis examines how the conflicts that Vice President Selina Meyer and her staff fumble through are just different enough for viewers to laugh at, yet familiar enough to force us to reevaluate our political system.

Hoogmoed, Kayla

Students with Non-Verbal Autism: Music Therapy Techniques for the Music Classroom

Music therapy is known to play a key role in special education because of its ability to heal—this includes emotional components such as stress and low self-esteem. Also improving the quality of life of people with various disabilities, music therapy is often used

as a means of communication for students with non-verbal autism. Utilizing this therapy in the classroom can also give students with non-verbal autism an outlet where they can express their feelings. Because public school music teachers often have little training in working with severe special needs students, music therapy can be incorporated into the curriculum to reach students with non-verbal autism. Teachers may struggle finding material that works in a classroom setting that is geared toward students with non-verbal autism. They may respond differently to contrasting methods of music therapy, especially because of sensory issues. This paper aims to examine different music activities and their effectiveness with non-verbal autistic students in the classroom.

Itzep, Anahi

*Identification and Characterization of Caspase Candidates in *Karenia brevis**

Karenia brevis forms blooms on Florida's west coast and threatens human health and marine ecosystems. Programmed cell death (PCD) has been proposed to contribute to bloom termination. Caspases are a family of cysteine proteases involved in PCD. The human cas-3 protein sequence was used to search against a newly translated transcriptome and identified four potential new caspase candidates in *K. brevis*. This project investigated conserved domains in these sequences using CDD and Pfam databases of well-annotated multiple sequence alignment models and identified the caspase peptidase C14 domain and CasC superfamily domain for all caspase candidates. Pfam searches identified p20 caspase domains for all caspases and p10 caspase domains for one of the 4 contigs. A multiple sequence alignment was performed with known caspase enzymes to identify the active site (QACXG). Characterization of these caspases will allow for a better understanding of *K. brevis* cell death and its possible role in bloom termination.

Jefferson, Thomas

Exploring Music's Social Impact Across Adolescence

This project aims to contribute to the knowledge of music's impact on a societal level in adolescent groups in America. Adolescents are more susceptible to outside influence, such as music icons in their environment. Summarizing music and its relation to the society it surrounds and a brief introduction to the significance of music in the social life of different cultures, this project explores how music affects adolescents in social and school environments. An informal qualitative survey included discussion of classroom environment, geography, music listening experiences, and involvement in musical activities.

Jimenez, Cassandra

Analysis of the Mental Effects that Adverse Childhood Experiences have on Development through the Lifespan

The present study aimed to identify within the existing literature, the definition of an Adverse Childhood Event (ACE), presenting evidence across several age groups, providing different examples of what an ACE may be considered. The PRISMA guide, CINAHL, Medline Plus and NCBI libraries were used. The inclusion criteria for this integrative review included articles which had the phrases "ACE/ACEs, childhood trauma, life span, mental health." Results revealed that participants were able to describe their own perception of trauma that was aligned to that of an ACE. Participants in the individual studies were able to provide several aspects of how an ACE would affect a person. Final results indicated that enduring an ACE between the ages of 0-18 creates lifelong effects on one's mental health. With this, healthcare providers can draw evidence into practice in order to prevent worsening of health risk factors by intervening as necessary.

Jones, Jordynn

Can Frequent Cannabis Consumption Lead to Depression?

Cannabis is the most commonly used illicit drug today. Approximately 49.6 million people aged 12 and over use cannabis in 2022. In the media, cannabis is portrayed as a great self-medicating way to treat common mental health disorders such as anxiety, depression, and stress. In fact, many people today also use cannabis to help with the negative effects of their depression. However, there have been multiple studies that argue otherwise. Specifically, there is very little empirical evidence to show that cannabis use can treat depression. In light of cannabis being legalized recreationally in New Jersey and other states, it is important for researchers to more closely analyze the relationship between cannabis and depression. This paper will examine the relationship between cannabis use and depression, whether the relationship be negative or positive, by using peer-reviewed, published empirical studies related to cannabis and depression. Additionally, this paper will review the effectiveness of cannabis use in people with depression. Additionally, this paper will predominantly examine the influence of frequent cannabis use on the outbreak and course of depression, and its treatment. This paper uses a wide-ranging review of the literature to address this relationship.

Kim, David

Prolonged Mobile Device Usage and Mental Health

With the rise of social media platforms and the different available functions, the usage of smartphones has also increased. It is stated by the Social Cognitive Theory that there is a reciprocal association between one's behaviors and emotions. With this concept in mind, it is critical to study the effects that prolonged smartphone usage has on one's mental health. This research focuses on the

correlation between smartphone usage length and the prevalence of depressive symptoms using the Smartphone Addiction Scale – Short Version (SAS-SV) and the Center for Epidemiologic Studies Depression Scale (CES-D). Data for this research was gathered through surveys distributed to students at a public university in Northern New Jersey as well as a church located in northern New Jersey. The results did not reveal enough significant data indicating a correlation between prolonged smartphone usage and depressive symptoms.

Kuncken, David

Ellie's Academy Business Analysis

Ellie's Academy is a rising modern early development and childcare center located in Somerville, Edison, and Monroe, New Jersey. In this practicum project, we conducted a comprehensive business analysis of Ellie's Academy by assessing the childcare industry, its competitors, and various aspects of business operations including management, marketing, and finances. We further identified several critical risk factors that the owners of Ellie's Academy should consider when expanding their business into different locations. Based on our thorough analysis, we deliver future strategies to catalyze and sustain Ellie's Academy's long-term growth.

La, Justina

Assessing the Mental Health and Family Dynamics of Porn Stars

Research done on the pornographic industry has previously been focused on the consumers and the broad sex work industry, but limited research has been conducted with the specific focus of adult film workers. A qualitative methodology was used to examine the mental health and family dynamics of pornographic actors. The objective of this research is to amplify the voices of sex workers and closely examine the impact of the sex work occupation on their mental health. Semi-structured interviews were done to survey participants, including former and current pornographic actors above the age of 18 years old. A questionnaire was used to collect data on participants' demographics, family background, and their profession. With findings of this study and continued research, the impact of the pornographic industry can be better understood to destigmatize sex work through advocacy and mental health education.

Labiento, Gianna

Disproportionate PM 2.5 Exposure in New Jersey

Long-term exposure to PM2.5 pollution contributes to millions of deaths worldwide annually. Concentrations are higher in industrialized cities because of the high amount of emissions. Populations at high risk include children, people residing in industrial areas,

people of color, and low-income people. The purpose of this research is to map the concentrations of PM2.5 in 20 New Jersey cities (10 low-income and 10 high-income cities) to determine if disproportionate exposure to PM2.5 by income is occurring in New Jersey. This research uses the EPA's environmental justice mapping and screening tool (EJ Screen) and U.S. Census data to determine the median income, percent below poverty, percent people of color, percent under age 5, PM2.5 concentration (ug/m³), and PM2.5 percentile of the 20 cities. These values were mapped to show exposures in each city. This presentation will compare PM2.5 exposure in high and low-income communities, while factoring the percent of children in the area.

Lavallee, Kate

*Evaluating Effects of Climate Change Projected Temperatures on *Karenia brevis**

Karenia brevis is the Red Tide dinoflagellate that produces brevetoxins, which cause devastating impacts on human and environmental health. Algal blooms are expected to increase in severity and frequency with surface water warming, which the IPCC expects to increase by 1-2°C in the coming decades. This project studied the effects of increased temperatures on growth, toxicity, and gene expression in *K. brevis*. *K. brevis* was grown in 25°C, the lab control temperature, and 31°C, which represents 2°C above average summer water temperatures. The average growth rate during log phase at 25°C was 0.644 divisions/day and 0.242 divisions/day at 31°C. Average photosynthetic efficiency was 0.634 during log phase for 25°C and 0.782 during log phase for 31°C. Brevetoxin and gene expression analyses will provide further insight into the effects of rising temperatures on toxicity of this organism and the potential for increased negative impacts because of climate change.

Leary, Griffin

Newark's South Ward: an Autopsy of a Community

My thesis offers a reconstruction of the "South Broad Valley" in Newark's South Ward, as it was before much of the neighborhood was demolished for the construction of I-78 in the 1970s. My great-great-grandparents arrived in Newark as immigrants and successive generations of my family were raised in this area of the South Ward. I use written histories of Newark, publicly available maps, photographs, and newspapers, in conjunction with oral family histories, family photos, and other personal resources to understand the character of the community was, and what daily life was like there, before the neighborhood was destroyed. My thesis establishes where people in this community gathered, worked, ate, prayed, and learned, as well as the social and cultural backgrounds of residents. This project offers an autopsy of a community, a post-mortem reconstruction of what this neighborhood was like when it was alive.

Lee, Brendon

Stress Level Between First-Generation and Continuing College Students

This study examines if first generation students have higher stress levels than continuing generation college students. Participants took an online survey on Qualtrics that asked about institutional support from the University as well as experiences and stressors in the last week. Other questions consisted of race, class standing, parents' education, gender, GPA, Major/department, who decided your major, parents' income, age, highest degree plan, and what are you (FGCS or CGCS). Currently, there are no differences between first and continuing generation students' reports of institutional support and experiences. There is a significant difference when comparing parents' income between first gen and continuing gen students. With a total of 68 participants, we already passed the requirement of participants which was 50, so now I'm heading to a new sample size of 100 participants and by then we can see if there's any more difference between the two generations with a bigger sample.

Lee, Jennie

The Mediating Roles of Working Memory and Self-Efficacy in relation to Math Anxiety and Math Performance

This longitudinal study seeks to determine if working memory and self-efficacy play a role in students' math anxiety and math performance. All participants were William Paterson students and were recruited from a Psychology Statistics online course. Participation was voluntary and participants stayed anonymous throughout the duration of the study. Participants took the same online Qualtrics survey at two different times. The survey consisted of a consent statement, a demographics section, and four measures: working memory test, Abbreviated Math Anxiety Scale (AMAS), Beck Anxiety Inventory (BAI), and Mathematics Self-Efficacy and Anxiety Questionnaire (MSEAQ). Analyses showed varied results from the two time points. However, in both times, there were correlations between the BAI and the AMAS and negative correlations between the MSEAQ and the AMAS and the MSEAQ and the BAI. Working memory was not related to any of the other measures according to the results.

Lopez, Isabel

Addressing Blind Spots in New Jersey by Studying the Impact of Air Pollution

Air pollution in New Jersey is an environmental concern intensified by climate change. New Jersey is known for its energy infrastructure which includes power plants and factories that pollute the air with harmful chemicals such as lead, particulate matter, and ozone. This issue is more prevalent in NJ communities that face socioeconomic disparity and high racial diversity. This study aims to quantify the degree to which air pollution affects mortality in

New Jersey. Through a systematic literature review, my objective is to emphasize the relationship of how individuals that live in zip codes that experience high poverty rates and large minority populations will have a lower life expectancy as they are disproportionately exposed to polluted air. To measure this, I will look at the U.S. Environmental Protection Agency (EPA) Air Quality System database to assess air quality at the zip code level and its change over time. I plan to identify the most affected areas to explore policy and identify targeted programs that can help protect vulnerable NJ communities.

Lucas, Emily

Implementing the Lyrical Techniques of Composers in the "Great American Songbook"

In the early 1920s, composers in America began writing for the early musical theatre genre. These tunes ventured further than the stage and remained popular for over a century. Songs by well-known composers George Gershwin, Ira Gershwin, Irving Berlin, Stephen Sondheim, Richard Rodgers, Oscar Hammerstein III, and many others now make up "The Great American Songbook."

This project examines the lyrical and musical techniques implemented in these composers' compositions in order to increase the emotional impact and effectiveness of three original songs. By studying the melodic, harmonic, and rhythmic genius of the composers of this compilation, I arranged three original songs in this style.

Magnusdottir, Sara

Original Compositions for Big Band and Hammond Organ

The Hammond organ is a versatile instrument used in a variety of musical genres including jazz, soul, and gospel. Combining the Hammond organ with a big band makes for a powerful sound, rich with possibilities. I have studied Hammond organ playing for a few years, and building on my study of previous arrangements for this combination, with the specific influence of jazz arrangers Thad Jones and Oliver Nelson, my project presents two original compositions and arrangements for big band and Hammond organ. One of the pieces is built on the blues form, arranged in a traditional style, while the other presents a more modern and modal sound. The pieces explore feelings of letting go of worries, excitement, and rush. I wrote the pieces with myself in mind as the organist, so I could use these compositions in the future, given the chance to perform with a big band.

Manna, Jenna

How Do School-Based Food and Nutrition Programs in New Jersey Promote Plant-Based Eating?

Over the past decade, interest in plant-based diets has increased as more people understand the personal, population-level and planetary benefits of plant-based eating. Research shows that

diets rich in plant-based foods are beneficial in preventing the onset of and managing symptoms of various chronic diseases. It is especially important to introduce plant-based eating to youth, as it aids them in creating lifelong healthy dietary habits and helps prevent childhood obesity. Less is known about how schools are encouraging plant-based eating among students in New Jersey. Key informants from programs across the state were interviewed using semi-structured interviews via Zoom. Interviewees were asked questions about the history, successes, challenges, and main approaches of their programs, as well as about creating long-term change in dietary practices and influencing local policy. Findings were analyzed to summarize current efforts across the state to promote plant-based eating and how programs are addressing disparities in communities.

Martinez, Elyssa

Cancel Culture: A Track Record of Inconsistency

Cancel culture refers to instances in which people deemed to have acted or spoken in an unacceptable manner are ostracized, boycotted, or shunned. This frequently happens on social media sites. The ostracism is usually accompanied by calls for fewer business opportunities and other consequences that can financially affect the alleged offender. One relatively recent aspect of this phenomenon pushes to prevent people that have been accused of crimes or discriminatory actions from posting online. This has raised questions about what types of content should be allowed on public platforms and if those who manage these platforms should intervene. People debate the effectiveness and necessity of cancel culture and how it fits into online social media etiquette. This thesis discusses several case studies on cancellation based on various accusations, such as criminal offenses, discriminatory behavior, and morally questionable acts. The case studies focus specifically on YouTube and explore how content creators respond, attempt to circumvent these allegations, and preserve their audience.

McErlain, Hannah

First Stigmatized, Now Glamorized: Investigating Modern Media's Mental Illness Portrayal and Its Effects on the Viewer

This thesis is an examination of mental illness portrayal across modern media and its potential negative impact on viewers' attitudes, beliefs, and knowledge about mental illness, and on viewers' mental health. Depictions of mental illness across television, film, news outlets, and social media are further analyzed. Limited research is published on the impact of mental illness glamorization within media on impressionable young adults. There is little to no research that sheds light on the impact of media portrayals of suicide, depression and mood disorders, anxiety,

PSTD, eating disorders, and drug addiction on viewers' perceptions of these mental health concerns, or research that touches on the mental health effects that follow after viewing inaccurate or distorted depictions of mental illness in modern media. Impressionable young adults are put at risk when viewing inaccurate representations of mental illness, and this literature review investigates the impact that these glamorized representations have on the perception of mental illness as well as the mental

McMenimon, Isabelle

Comparing Honey Bee Pollen Foraging Patterns between 2017 and 2018

Honey bees are recognized as valuable generalist pollinators that play an important role in supporting the success of their colony and promoting angiosperm diversity and abundance. They are also a useful model for studying the decline of native wild bee species due to factors such as urbanization, climate change, and phenological mismatch. This study compares pollen foraging patterns of honey bee colonies in the WPUNJ Research Apiary between 2017 and 2018. The research has three objectives: validating the hemocytometer for pollen quantification, identifying pollen species and abundance in 2018, and comparing the 2017 and 2018 seasons. During the writing of this abstract, the identification and relative abundances of pollen food-source plants are pending, but this study confirms the reliability of the hemocytometer technique for identifying and quantifying pollen. This technique detected pollen species missed by prior methods, indicating its potential value for future research on pollen foraging patterns and their impact on pollinator health and ecosystems.

Medina, Isabel

The Failures of Plan Colombia: The Socioeconomic, Environmental, and Health Effects of Aerial Spraying on Coca Crops in Colombia

For the last half century, Colombia has faced instability on economic, political, and social fronts. Particularly, the production of cocaine and its wholesale distribution has exacerbated and perpetuated Colombia's instability. The issue is complex, affecting citizens, farmers, narcoguerrilla, paramilitary, and government groups. In an effort to address the complexity of the issue and bring stability back to Colombia, the government looked to the U.S. for guidance and support and introduced Plan Colombia. The aid program sought to address drug trafficking, violence, and poverty in Colombia through military aid, social and economic development, and coca eradication efforts. The program has had various environmental, health and socioeconomic effects. This paper analyzes the effects of the plan and concludes with recommendations for more equitable and effective policy considerations.

Mele, Hannah

The Effect of Instructor Fluency and Video-Audio Usage on Students' Perceptions of the Instructor and Learning Outcomes

This study examined how an instructor's fluency and video-audio usage impact students' perceptions and learning outcomes. Participants viewed one of four variations, fluent video, fluent audio, disfluent video, or disfluent audio, for two different lessons. Following each lesson, participants completed measures judging their learning, instructor ratings, and a comprehension test. Analyses show a significant difference in students' judgments of learning between each lesson. Students predicted that they would learn more information from the first lesson compared to the second lesson, however, students' actual learning was not significantly different between the two lessons. This indicates that with practice students were able to predict their own learning more accurately. However, analyses show that students learn from and perceive an instructor the same regardless of the instructor's fluency or video-audio usage.

Miyashiro, Fabio

The Starbound Child

The Little Prince, by Antoine de Saint-Exupery, explores the journey of a young boy throughout the stars, meeting strange new beings along the way, finally befriending an aviator who has lost his way. The novella's themes of friendship, isolation, youth, and the absurdity of adulthood has inspired millions around the world ever since its original publication in 1943. My illustrated book, The Starbound Child follows the friendship of Ari, an anxious college student, and Maria, a young girl from outer space. Ari and Maria are taught various life lessons by animal friends, about self-care and interpersonal relationships. In addition, the story discusses the struggle of perfectionism, and themes of healing the inner child and relearning lessons lost in time. Inspired by the 1943 classic, I hope to replicate how the novella can touch the hearts of people from all age groups, while presenting as a children's illustrated book.

Montero, Salvatore

The Conducting Styles of Robert Shaw and Arturo Toscanini: A Comparative Analysis

This project compares the stylistic aspects of the conducting gestures of Robert Shaw and Arturo Toscanini in one movement of Beethoven's Symphony No. 9 in D minor, Op. 125. While both conductors led ensembles during the twentieth century, each had different styles of communicating musical ideas through gestures to their ensembles. By examining their respective styles, expressiveness, score study, and facial expression, when possible,

conductors will gain insight into the differences and similarities between orchestral and choral conducting, and adapt ways to utilize these skills within their own ensembles.

Nelson, James

Reflection of a Stranger: A Multi-Genre Composition for Vibraphone

In specialized musical training, an institutional degree program often focuses on one musical genre. Working against this barrier in search of a well-rounded musical education, with the help of educators and peers in the music department at WP, the composer and performer of this work, James Nelson, sought and gained experience and training in multiple genres. Nelson's passion for composition resulted in the creation of this work, in which a classical percussionist voyages out into the lands of jazz, pop music, and digital music creation. What starts as a contemporary solo later incorporates a track in both jazz and pop, where both melodic and chordal parts are performed. Through this, one is shown that they do not have to stay solely within a predetermined box.

Nelson, Jenna

Her-story of Women Through the Decades

Her-story of Women Through the Decades is a fine-arts print and photography thesis that depicts women's experiences in the decades between 1920 to 2022, combining the history of major events and fashion to inform the way these photographs are made. The photographs draw inspiration from magazines from the past century, especially the stereotypical portrayal of women in the media at the time. Melding historically accurate photographic recreations with written excerpts, I create a magazine parody that satirizes historical women's magazines. My purpose is to demonstrate how much of an impact it can have on society today by seeing how women were viewed through photography and the eyes of the media. Having the magazine in hand will make it hard for viewers to look away from the hardships women have gone through within each decade, bringing feelings about feminism to light.

Ortiz, Christian

The Proposition to Advance Religious Competencies Regarding Death in Healthcare and Hospice

Research shows that religion is important to a large portion of the population and is capable of yielding significant benefits in the experiences of in-patient facing serious illnesses and death. This thesis explores research as well as anecdotal evidence from doctors and other medical personnel; the project includes two parts, a paper and a documentary featuring religious leaders,

professors of philosophy and psychology, and medical professionals. The paper covers the basic framework for how healthcare can involve religion and what goals can be met with improving competencies. The beginning section covers religion and health. From there, I address the religion as a means of enhancing subjective understanding of death. A later section explores perspectives derived from specific belief systems such as Buddhism, Judaism, Atheism, Islam, and Christianity. Advancement of religious/spiritual resources and competencies would, I argue, only better serve the patient population by promoting diversity, and communication between doctors and patients involved in the most difficult of conversations.

Ortiz, Melissa

The Therapeutic Potential of Psilocybin for Depression and Mental Health

Depression is a potentially life-threatening disorder affecting millions of people across the globe. The discovery of antidepressants revolutionized the understanding and management of depression, but their efficacy has been debated. This review of the literature aims to explore the therapeutic potential of psilocybin compared to traditional treatment methods for treating depression. Previous clinical studies on the therapeutic benefits and side effects of psilocybin will be reviewed. With the increase in the rate of mental disorders globally, psychedelic-assisted psychotherapies and psilocybin-assisted psychotherapies may alleviate some of the challenges that face conventional psychiatric medicine.

Park, Lina

What Are State Quit-lines Doing to Address the Youth Vaping Epidemic?

There has been limited research on how states are addressing the epidemic of youth vaping and helping youth who are already addicted to electronic cigarettes. This project will assess how teen use/addiction to vape products is addressed by state-level tobacco prevention programs by using quantitative content analysis to evaluate all state quitline websites on their electronic cigarette programs and the extent to which they tailor to youth. The purpose of quantitative content analysis is to analyze the resources and access this population would receive in each state. Data analysis will consist of how many of the state quitlines are effectively tailoring their content to youth. The main findings will be written up for each topic and subtopic and screenshots will be used to further describe tailoring, or lack thereof, to youth. Finally, an overall assessment of the extent to which state quitlines are addressing youth will be made.

Parker, Sarah

Terrorism and the Internet: A Systematic Review of the Literature

Over the last few decades, the development of the internet and technological advances have paved the way for positive societal contributions across a wide range of academic and career fields. However, some individuals have taken advantage of these technological advances and have begun utilizing them for illicit purposes and, most dangerous of all, terrorism. This thesis will provide a review of relevant literature on the ways in which terrorism has relied on the internet. Topics addressed are general uses and purposes of the internet by terrorist organizations, online forums, cryptocurrency, vulnerabilities to radicalization, counterterrorism strategy, and relevant case studies. Some major conclusions are that the internet has a key role in the widespread nature of terrorism, younger generations are at risk of radicalization due to their extensive internet use, and combatting terrorism on the internet requires a complex multi-system approach in order to be effective.

Pettorini, Michael

Pearl - an Experience in Electronica

Pearl is an album of experimental electronic music written, produced, mixed, and mastered by myself. Created over the course of almost 2 years, it brings listeners on a journey through music inspired by EDM, hip-hop, ambient, and garage. Conceptually, it is my tribute to the modern world. It is an album that can only exist in the digital age. Throughout the course of its creation, I have learned how to extensively better myself as a musician, composer, engineer, and storyteller. Pearl showcases that growth.

Pruden, Cortney

Mary, Mudang, and Misogyny: The Intersectionalities of Women and Religion in South Korea

Modern South Korea is a country with a history of both religious and gender stratification; while the majority of South Koreans claim no religious affiliation, the country has simultaneously seen a dramatic increase in Protestant Christian, Roman Catholic, and Buddhist conversion in the past century. These religions, including the revival of traditional mu shamanism, have gone against the grain of the Neo-Confucian patriarchy currently in place, particularly within the realm of gender relations and women's status in Korean society. As rates of feminism and faith concurrently increase in South Korea, the goal of this thesis is to explore women's roles in each of these religions within a Korean context and how religion impacts this wave of modern Korean feminism. Research consists of library materials, literature reviews of Asian, religious, and women's studies, and compiled fieldwork and observation conducted in Seoul.

Ra, Jennifer

The Relationship Between Religion and ACEs in College Students

The role of religion and adverse childhood events (ACEs), or traumatic experiences as a child, impacts the young adult mind, whether that be positively or negatively. The Albert Bandura's Social Learning Theory suggests that behavior, especially of children, is influenced by environmental and cognitive factors. Thus, studying the effects of major factors are crucial in the approach of young adult mental health outcomes. With the purpose to observe the correlation between childhood and religious experiences on the young adult life satisfaction, this study was conducted through surveys, using the Religious and Spiritual Struggles Scale, ACE Study Questionnaire, and Life Satisfaction Scale. 116 survey responses were analyzed. Results show that on average, as religious and spiritual struggles and trauma increases, life satisfaction also increases. This data can be used for the expansion of mental health advocacy in developing young adults and encourage education to facilitate the prevention of negative childhood experiences.

Rago, Emilie

The Efficacy of Behavioral Pain Assessment Tools in Evaluating Pain in the Nonverbal, Critically Ill Adult Patient: An Integrative Review

The gold-standard of pain assessment is the patient's self-report. However, a barrier to this standardized practice is non-communicative pain assessment. This integrative review analyzed clinical practice tools such as the Critical Care Observation Tool (CPOT) and Behavioral Pain Scale (BPS) that have been clinically tested at objectively assessing pain in nonverbal, critically ill adult patients. Using the PRISMA guide, a search of the literature was performed on the databases CINAHL, Google Scholar, MEDLINE PubMed, and MEDLINE ProQuest. The search rendered eight articles. The eligibility criteria included: the studies needed to be published in the English language, the participants were to be adults who were diagnosably nonverbal, and the studies needed to be testing the validity of a behavioral pain assessment tool. The findings of the study revealed that behavioral pain assessment tools have strong psychometric properties and showed improvements in the frequency of pain assessment and consequent intervention.

Raiola, Marcella

The Effectiveness of a Musical Intervention on State Anxiety

Previous research supports the hypothesis that music can reduce stress and anxiety symptoms. The current study was designed to test the hypothesis that classical music intervention can be a therapeutic tool to help patients suffering from anxiety disorders. Forty-eight adults recruited through social media were asked to complete Spielberger's State Anxiety Inventory (STAI), then listen to a classical musical intervention, and were finally readministered

reduced anxiety after listening to the classical music intervention. Thus, this study may provide evidence that classical music does affect state anxiety. The results from this study may support the idea that classical music can be an effective therapeutic tool in reducing anxiety.

Reed, Avani

We Should Talk About This: How BIPOC Can Benefit From Representation, Education, and Honest Conversations

Issues of mental illness and generational trauma which disproportionately affect BIPOC are often misunderstood based on inaccurate depictions, leading to the formation of dangerous stigmas. For my creative project, I have published a blog entitled "We Should Talk About This." The title captures my mission, which is to provide a honest and open space for stories and reflection amongst members of the BIPOC community. The issues discussed are reflective of the ways in which race, ethnicity, and belonging to a marginalized identity play a distinct role in shaping the experiences of those suffering from mental illness and trauma. As part of the BIPOC community and someone who is pursuing a career in the social work field, commitment to education, liberation, and healing are the pillars of this blog. It is my belief that through adequate representation and resources, marginalized communities can succeed against significant odds.

Remeniski, Adam

Alexandria

While video games and movies appear to the public as though they are produced instantaneously, often the creation of these projects can last years and involve hundreds of individual and team work hours before the project is complete. To reveal the substantial work that goes into 3-D based media, I have created a video game map, along with a written and organized explanation of the details and complex process by which it was created. The project, entitled, Alexandria, is a Greco-Roman Egyptian-era inspired, 3-D video game map rendered in the industry standard, Unreal Engine. The written explanation explains how many hours, human resources, edits and conversations went into the creation of this product. The cutting edge software from my field with an explanation of fundamental processes provides a creative experience that also builds my expository skills, making me a better teacher and mentor to others.

Rento, Claudia

How Variations in Age-Based Cognition Exhibit Receptiveness to Multiple Perspectives of the Mind

The present study addressed a number of different influences on the way people understand the world and explored generational differences in several aspects of cognitive processes across three

generations. Measures included scales of Dualism, Centrality of Religiosity, Postformal Thought, and Metacognition. Participants were in three age groups 18-23, 45-60, and 75+. Findings indicate that there are more similarities than differences in responses across the three generations. These results disprove the original hypothesis of the older generation responding differently than the other two groups. Possible explanations for these unexpected findings may include a limited number of participants in the oldest generation (n=14) compared to the younger generations (n=25, n=27) as well as failure of participants to complete the study resulting in their elimination from data collection.

Reynolds, Megan

Review of Therapeutic Techniques Used in the Nursing Field for Patients with Dementia and Alzheimer's Disease

Alzheimer's Disease and dementia are illnesses that affect people neurologically as well as physically and emotionally. Different pharmacological interventions may help symptoms of the disease, but ultimately there is no cure for this tragic disease. This integrative review outlines different non-pharmacological techniques that can be implemented into the care of patients with Alzheimer's disease or dementia to help improve their mental status and symptoms. The PRISMA diagram was utilized to find studies from CINAHL, PubMed, and EBSCOHOST. Studies had to be published from 2013 and on, written in English and include patients with Alzheimer's disease or dementia exclusively. Original research and previous systematic reviews were included.

Rinaldo, Grace

Disney and the Public: Public Criticism and Remakes of Aladdin

Alzheimer's Disease and dementia are illnesses that affect people neurologically as well as physically and emotionally. Different pharmacological interventions may help symptoms of the disease, but ultimately there is no cure for this tragic disease. This integrative review outlines different non-pharmacological techniques that can be implemented into the care of patients with Alzheimer's disease or dementia to help improve their mental status and symptoms. The PRISMA diagram was utilized to find studies from CINAHL, PubMed, and EBSCOHOST. Studies had to be published from 2013 and on, written in English and include patients with Alzheimer's disease or dementia exclusively. Original research and previous systematic reviews were included.

Rivera, Sabrina

Political Efficacy of Gen-Z Latinos

Political efficacy is the perception that one's voice matters in politics. There are two types: Internal being defined as the belief

that a person can understand and therefore participate in politics. External efficacy refers to the belief that the government will be responsive to a person's demands. Political efficacy directly impacts voter turnout, which is not only low overall, but particularly lower among younger generations and ethnic minorities. This study aims to understand political efficacy in Generation Z Latinos, who make up about one in four eligible voters in the United States. Young Latinos are growing as a proportion of the overall population, but older and non-Latino Americans reach the polls in much higher numbers. The goal of this study is to understand why, looking at variables including culture, political views, language spoken, and educational attainment. These results might ultimately help get more eligible voters to the polls.

Roberts, Aaliyah

Effects of Inflammation and Stress-Induced Anhedonia on Mouse Genotypes

The endocannabinoid system (ECS) is a complex neuromodulatory system involved in the regulation of several major physiological functions throughout the body. The ECS can be found in different tissues and organs and consists of endocannabinoids, receptors, and enzymes for the synthesis and degradation of the endocannabinoids. The endocannabinoid system modulates and regulates many vital processes such as inflammation, and stress response, and can even modulate digestion. Using a newly characterized model for ADHD (DAT-Cnr2) with selective deletion in midbrain dopamine neurons, through a cytokine assay and stress-induced anhedonia experiment, different genotypes such as the autism model BTBR, background strain C57BL/6 and a similar cKO CB2 mouse model with deletion in microglia, Cx3Cr1-Cnr2, the effects of stress and synthetic cannabinoid WIN55212 will be measured and compared between mouse of the same strain and other genotypes to find any patterns in the way these mouse models handle stress.

Robinson, Taylor

Analysis of Pediatric Nurses and Factors Affecting Their Job Satisfaction—An Integrative Review

The nursing shortage has been an ongoing issue for years before the COVID-19 pandemic. Nurses are leaving the profession for reasons including wage disparities, high nurse-to-patient ratios, burnout, and feeling undervalued. This integrative review examined the current literature that addressed the factors they identified as affecting pediatric nurse job satisfaction. Following the PRISMA guide, a search of the literature was executed using CINAHL, Medline (Pubmed) and Science Direct. Eligibility criteria incorporated studies that were published in English, between 2000-2020 and identified factors affecting pediatric nurse job satisfaction. The selected studies were questionnaires, integrative reviews and cross-sectional designs. Results revealed that

adjustments within the healthcare system will be acknowledged and made to reduce shortage and turnover rates of these nurses.

Rosa, Yakira

Why Does the US Lead the World in Wrongful Conviction Rates: How to Make Increasing Numbers Stop?

With mass incarceration becoming a big problem in the United States, many of the people who are in jail are not supposed to be there. The wrongfully convicted very often do not get to speak their truths or survive outside of jail after release. This literature review will analyze the wrongfully convicted, and why there is a struggle to combat the problem nationally. The review will be based on scholarly articles and informative opinionated writings. The overall goal of the piece is to determine why there are several wrongful convictions in the United States and bring light to some cases people have not heard of.

Rush, Jordyn

The Academic Impact of Public Speaking Anxiety in Students: An Empirical Study

Public speaking is a necessary component in the success of college students today. This skill, however, is a common fear among many and could impact a student's academic performance. In this current study, William Paterson University students were asked to complete a Qualtrics online survey that measured their levels of public speaking anxiety, using the Public Speaking Anxiety Scale (PSAS), and their academic performance, using reported GPA. The main hypothesis states PSAS scores will have a negative relationship with GPA/grade averages. Additional hypotheses predict those who meet the criteria for PSA are likely to exhibit avoidant behavior and do worse on assignments relating to such anxieties. Results are predicted to support the main hypothesis and to achieve statistical significance. Overall, the study aims to bring attention to the potential implications of public speaking anxiety and how awareness could provide support for those who are impacted negatively in school.

Rybak, Natalia

Olde Granddad Industries Consultation Plan

The purpose of this business practicum project is to provide consultation services to Olde Granddad Industries, an auto parts and accessories company based out of Paterson, New Jersey. The company specializes in manufacturing and distributing car supplies and accessories to car washes and similar dealers, with a centralized focus on the tri-state area. To help the company to grow its sales revenues and outperform its competitors both locally and regionally, we analyzed various aspects of the current business operations including management, marketing, sales, and finances. In our examination, we identified needs of competitive distinction, opportunities for regional expansion, and increasing efficiency of

actionable strategies regarding increasing marketing outreach, sales team recruitment, warehouse worker retention, and revamped and organized bookkeeping and finances. We expect our proposal to cultivate Olde Granddad Industries' competitive advantages and sales revenue within the industry for the future.

Sachau, Brooke

Examining Patient Perspective Towards Healthcare Professionals with Tattoos

Tattooing as a practice has been recorded since 3300 BCE thenceforth, only to increase in popularity in the modern 21st century, with 36% of Americans between the ages of 18-29 having at least one tattoo. This study, conducted in a field with minimal prior research, investigates the influence of tattoos on how patients perceive their healthcare providers on the standards of professionalism, quality of care, and other akin facets of medical management. Two hundred and twenty-two participants, recruited via social media, were surveyed to assess their perceptions on healthcare professionals presenting with visible tattoos, and the results were found to be consistent with the findings and ethical goals of previous research. Overall, the outcome of the research indicated that tattoos have little to no influence or correlation with the perceived ability of healthcare professionals to adequately perform their job. This thesis is developed with fundamental research to encourage supplemental exploration.

Sadrud-Din, Sharuq

Effects of Childhood Trauma on the Mental and Physical Well-Being of Women

This study employed a qualitative methodology to assess womens' perspectives on their childhood trauma as well as their current physical and psychological symptoms of mental illness. Data was collected using a semi-structured interview format and validated interview guide questionnaires. Purposive sampling included women who self-identified as experiencing trauma or neglect as a child. 5 participants were selected aged 20- 30 years old. Study findings revealed that those who experienced childhood trauma or neglect are suffering from anxiety, depression, chronic headache, back pain, and sleep disturbances. The study's findings have the potential to shed light on phenomenological beliefs about women's physical and psychological health in relation to childhood traumas. The findings of the study have the potential to raise awareness of childhood trauma and its profound effect on women's physical and psychological health in adulthood.

Salinas, Christianne

Lateral Violence and Burnout in Newly Graduated Nurses: An Integrative Review

Lateral violence (LV) in nursing is an ongoing issue in the profession and has been correlated with burnout. This integrative review interpreted and analyzed current research to examine the

relationship between LV and burnout in newly graduated nurses. Utilizing the PRISMA guide, literature was screened according to their relevance to the topic. The databases used to gather research were CINAHL, Medline via ProQuest and Medline via PubMed. Eligibility criteria required literature to be published in English between the years 2000-2022, and for participants to identify as part of the nursing occupation. An analysis of the literature examined the extent of the relationship between LV and burnout in newly graduated nurses. Studies found this bullying had negative effects on nurse readiness and wellness, resulting in burnout and risks in patient safety. Furthermore, young nurse populations are at greater risk for burnout related to stresses of LV.

Salmeron-Flores, Israel

Can CBT Help with LGBTQ Identifying Individuals' Mental Health?

Cognitive Behavioral Therapy (CBT) has been a well-established and researched therapy for a variety of disorders, including depression which disproportionately affects the LGBTQ community. The diversity of the LGBTQ community presents challenges to assessing the usefulness of treatments since a variety of treatments may be implemented depending on the intersectionality of people, class, education, and even culture. Therefore, this thesis will examine if CBT can be modified to be more inclusive of LGBTQ individuals seeking mental health support. In addition, can CBT be beneficial to LGBTQ identifying individuals? Overall, the thesis attempts to review the ways in which the current body of literature addresses the LGBTQ community and its needs, and if the science is keeping up to date.

Schuman, Naava

The Role of the School Nurse Surrounding Mental Health Issues in School-Aged Children and Young People

This integrative review investigates the role of school nurses in identifying mental health issues in school-aged children and young people, focusing on their perceptions of their role, their experiences in this area, and their ability to identify and refer students for early intervention services. Utilizing PRISMA guidelines and searching three databases for peer-reviewed papers involving school nurses working with children aged 6-18, the review found that school nurses play a critical role in promoting children's emotional health and well-being, but more mental health training and education are needed to care for students with mental health issues. Additionally, better interdisciplinary approaches and increased confidence are necessary to address the barriers that school nurses face. The research highlights the importance of nursing, specifically, school nurses who are at the forefront of providing essential care and support to students in need as mental health conditions in young people rise worldwide.

Sedran, Olivia

Olde Granddad Industries Consultation Plan

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Senman, Esma

Stunting Progressive Conversations: Case Studies on Religious Criticism

Religion is almost always a controversial topic. Often, scholars and political leaders are most hesitant to discuss Islam, partly because of norms against feeding bigotry and discrimination. This thesis centers on detailed case studies of Salman Rushdie and Ayaan Hirsi Ali, two figures in different spaces who caused global uproars because of their writing and commentary on Islam. In both cases, the writers experienced multiple threats against their lives. In Rushdie's case, people associated with him were killed and he – after many years of hiding – was brutally attacked in 2022. Regarding Rushdie, I conclude that freedom of speech on an ideology through artistic expression must unequivocally be protected. Hirsi Ali faces condemnation regardless of her academic, personal, and professional backgrounds, for her straightforward commentary of Islam as an ideology and how it affects societies. She not only should be allowed free speech like Rushdie, but also should be permitted in academic spaces. This thesis explores why and how religion should be discussed and criticized to discourage bigotry and why it is imperative for liberal societies to provide a safe, free, and open setting for writers and scholars who want to criticize any religion.

Shoemaker, Ashley

Mariposa

In my novella, *Mariposa*, I examine how the lives and experiences of women have changed extensively in the past century. We are constantly treading new territory, as the newer generations of women do not share the same struggles and circumstances. However, some aspects of womanhood remain constant no

matter how much time passes. My coming-of-age novella will cover topics such as femininity, religion, generational trauma, Puerto Rican culture and history, and identity in a series of vignettes, similar to *The House on Mango Street* by Sandra Cisneros. The novella is told through the perspectives of characters loosely based on important women in my life. Each generation experiences a pattern of struggle and a desire to be liberated from whatever keeps them from their dreams. Through this project, I highlight not only generational struggle, but also the strength it takes to grow beyond the family dynamics we are born into and find freedom through knowing oneself.

Snyder, Robyn

Black Tea

The project, Black Tea, is an animated series about Jackie, a feral woman who left society, found in a forest by a group of mercenaries. My goal is to showcase the internal conflict between her desire to separate from society while also satisfying her needs. Influenced by Cyberpunk: Edgerunners, Black Tea's visual aspects place an emphasis on subverting expectation by establishing the environment before throwing them into an action scene. The theme is influenced by a more primal version transcendentalist beliefs, drawing on the idea that nature is an escape from the cage of civilized society. Black Tea proposes that escaping society is choosing a different oppression with the lack of stable resources stripping us of our freedom. The creation of this project provided me practice the preproduction process and in presenting pilot episodes, which will help me when I enter the creative work workforce.

Stauffacher, Heather

Effects of Breakfast on Cognitive Function

While previous research shows children perform better on cognitive tasks after breakfast, there is less research that examines adults. Adult participants were provided with a survey to test their reaction time and working memory. They completed an Aospa task to recall letters after completion of math equations and a RT measure at the same time on two different days, before or after breakfast. Results indicate that although breakfast is important, adults may be less sensitive than children.

Steinel, Hannah

My Floriography

In recent years I have become increasingly interested in exploring the Victorian language of flowers. In its prime, the language was used to communicate messages, sometimes personal or secret, to another person. Although the language of flowers was common knowledge in the early nineteenth century, today it is scarcely known. Fortunately, there are plenty of sources available to learn

about it. After gaining a thorough understanding of the language and how it can be applied to art, I created the project "My Floriography." For this project, I have designed framed pressed flower arrangements. Each piece consists of a selection of personally meaningful flowers accompanied by text that states the person, date, or location that gives these flowers their significance. Although the project is inspired by the Victorian language of flowers, the symbolism of the flowers is not based on this. Instead, the meaning of each flower comes from the personal significance it has to me; it is based on my own original language of flowers.

Strombom, Elias

The "Great American Songbook" - A New Take Album

The purpose of this project is to examine the style and qualities of songs from the "Great American Songbook." An interview with jazz pianist, Bill Charlap, in which he discusses a predetermined selection of songs from the "Great American Songbook," with quotes and commentary, are included in the liner notes of an original album featuring new compositions in this style. These original compositions were recorded and put in the format of an album. The final recorded project will show if it is possible to recreate the sound of songwriting found in the roots of American popular music.

Tabago, Maria

Exploring the Role of Telehealth in Future Palliative Care Nursing: An Integrative Review

With the rapid emergence and adoption of telehealth services during the COVID-19 pandemic, it is significant to explore how telehealth will continue to change the delivery of healthcare services in the future. This integrative review examined and synthesized pre-existing literature on the prevalence and role of telehealth in the delivery of palliative services. This study expands on Cherniwchan (2021)'s research results on the five key themes of telehealth in healthcare to provide insight on the sustainability of telehealth in the palliative nursing field. Literature was searched using the database CINAHL for recent, peer-reviewed articles about tele-palliative services delivered globally. A thematic analysis of 12 articles was conducted to examine how telehealth continues to be mainstreamed into healthcare practices and serves as a vital role in the post-pandemic era (Solari-Twadell et al, 2021). Results showed the continuing growth and significance of tele-palliative services integrated in disease management and treatment. Tele-palliative delivery serves as a potential solution for the growing demand of palliative services.

Tabije, Jan Carl

Ellie's Academy Practicum

Ellie's Academy is a rising modern early development and childcare center located in Somerville, Edison, and Monroe, New

Jersey. In this practicum project, we conducted a comprehensive business analysis of Ellie's Academy by assessing the childcare industry, its competitors, and various aspects of business operations including management, marketing, and finances. We further identified several critical risk factors that the owners of Ellie's Academy should consider when expanding their business into different locations. Based on our thorough analysis, we deliver future strategies to catalyze and sustain Ellie's Academy's long-term growth.

Tahsin, Saira

Investigation of Antifungal Tolerance Gene SLT2 on Echinocandin Antifungal Drug Resistance in Candida Glabrata

Candida glabrata is a fungal pathogen that can cause invasive infections in immunocompromised patients. These infections are treated with echinocandin antifungal drugs that inhibit fungal cell wall synthesis by targeting beta-1,3-glucan synthase. Mutations in *FKS1* and *FKS2* genes that encode for this target enzyme lead to resistance; however, multiple fungal tolerance pathways, including the cell wall integrity (CWI) pathway, are activated upon drug exposure prior to *FKS* mutation. To determine the role of the CWI pathway in echinocandin resistance, we disrupted a CWI pathway gene (SLT2) in *C. glabrata* *FKS2* mutant cells which, surprisingly, led to reversal of echinocandin resistance. Our next aim was to complement this phenotype with reintroduction of SLT2 on a plasmid. We cloned *SLT2* onto *C. glabrata*-specific plasmids which were expressed in our *SLT2* knockout strains using a gap-repair cloning technique. Drug susceptibility assays will be performed to confirm the role of *SLT2* in echinocandin resistance.

Tayag, Justinne

The Role of Experience Related to Burnout in Emergency Department Nurses: An Integrative Review

Burnout is well established in nursing, especially in high-stress and demanding environments such as the emergency department. This integrative review investigated the current literature on how burnout affects emergency department (ED) nurses in relation to years of experience. A literature search was conducted utilizing the PRISMA guide and CINAHL, PsycInfo, PubMed, Google Scholar databases. Eligibility requirements include peer-reviewed articles that were published between 2002-2022, written in English, using the MBI or ProQOL tools, and included years of experience as a demographic factor. Guided by Maslach's Multidimensional Theory of Burnout to conceptualize burnout. This review evaluated if ED nurses who have worked at least five to eight years are more likely to experience burnout compared to nurses with less experience. Eight out of the thirteen articles revealed that experienced ED nurses display higher burnout levels than inexperienced ED nurses.

Theobald, Meredith

Olde Granddad Industries Consultation Plan

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Thomas, Isabelle

Halcyon

My project is a vibraphone duet exploring atmospheric sonic planes. During the pandemic lockdown, I went on walks around my neighborhood and began recording sounds around me such as rain, thunder, ponds, wind, and footsteps. Listening to the way these mercurial natural voices created music inspired my composition. Originally inspired by the compositional techniques of Musique concrete I ultimately went for an atmospheric style. This piece employs the use of improvisation, pitch bending, motors, and graphic notation, where the score is specific but the performers also have liberties, which allows the piece to sound different each time it is performed. I aimed to achieve a particular feeling—an energy of uninterrupted nature and the reverie in the hymns of the world around us.

Tousignant, Vanessa

The Value and Evolution of Immigrant Foodways

My thesis focuses on the evolution of Korean and Hmong immigrants' foodways. To search for a better life, these Hmong and Korean immigrants migrated in America, but faced discrimination upon their arrival. As many struggled to assimilate in America, they turned to their traditional foodways to cope with their new and unfamiliar life. I highlight Korean and Hmong immigrants who established their cultures and cuisines in America. To many of these immigrants, food is more than just something they eat to stay alive. Food is the tangible association to culture, heritage, and history that has the ability to be remembered, smelled, and replicated. Food is comforting, and provides them with memories of loved ones, memories of long ago, and memories of home. In the thesis, I emphasize how the evolution of the immigrant cuisines and cultures has created a more diverse America, accepting of new flavors, traditions, and identities.

Tshimanga, Tiffany

Examining Factors Related to Maternal Mortality in African Americans—Review of the Current Science

Black women are three times more likely to die from a pregnancy-related cause than White women due to numerous factors such as variation in quality healthcare, underlying chronic conditions, structural racism, and implicit bias (CDC, 2022). This integrative review was conducted to explore the question "In patients who have experienced postpartum complications or maternal death, how does being an African American woman compared to being a White woman influence death or postpartum complications after the first week of giving birth?" The PRISMA guidelines aided in selecting 10 articles from CINAHL which were narrowed down by applying inclusion criteria. This involved excluding records for not being between the years 2012 and 2022 and not including variables, maternal mortality, African-American an adverse effects. Results revealed black women are at risk for maternal morbidity and postpartum complications compared to White women.

Van Grouw, Katrina

What Has Formed Me: An Artistic Exploration of My Dutch Heritage

Heritage and family are often the foundation we are built upon, a cultural bedrock on which we unknowingly rely. In this series of artworks, the concept of heritage is explored through paintings celebrating the artist's Dutch roots; the works also acknowledge the universal importance of family, memories, and childhood nostalgia. Based on deeply personal family photographs and mementos, these works function as an exploration of color and pattern, the "rose colored glasses" through which many of us view childhood, and a recognition of the blessing and importance that family has in forming a joy-filled and meaningful life. Utilizing

artistic nods to iconic artists such as Norman Rockwell and Andy Warhol, the pieces also function as commentary on pre-established artistic traditions.

Vazquez, Caleb

Ceiba: The Hardening of the Soul

Ceiba is an eight-song concept album that explores the journey of deconstructing and reconstructing spiritual beliefs. In this album, the composer, producer, and lyricist, Caleb Isaac Vazquez (aka Caleb Isaac), expresses feelings regarding his religious background and experience with Asperger's syndrome. He created each original song on this project using skills he acquired as a WP Sound Engineering Arts major and took inspiration from electronic music, hip hop, and ambient music to create his unique sound. *Ceiba* derives its name from the national tree of Puerto Rico which is prevalent throughout Latin America and the Caribbean. Caleb chose this name due to the tree's spiritual significance, as several indigenous cultures from Latin America consider it sacred. Caleb has used newfound abilities to create a positive work of art in which he reconciles his own spiritual experience and strives for a greater future.

Vidals, Giselle

Racial Discrimination and Adverse Birth Outcomes: An Integrative Review

Women of color are disproportionately affected by adverse maternal health disparities, with rising maternal and infant mortality rates, preterm delivery (PTD), and low birthweight (LBW). This integrative review examined the existing literature relating to the relationship between birth complications relating to perceived maternal racial discrimination in African American and Hispanic women. A PRISMA format was used to screen databases including CINAHL, ProQuest/MEDLINE, and PsycINFO. Twelve research articles were included in the review which met the inclusion criteria: peer-reviewed, demographic of Black and Hispanic women, and fetal outcome focus. This integrative review was guided by a literature concept analysis framework, considering the qualitative and quantitative research done on maternal health disparities relating to racial discrimination. Results revealed the negative effect of personal experiences of racial discrimination and its contribution to poor infant health outcomes in Black and Hispanic populations.

Vitale, Jenna

Are Musicians More Likely to Experience Generalized Anxiety Disorder?

Performance anxiety is common among performing musicians. Generalized Anxiety Disorder can lead to one or more of the following symptoms: dizziness, increased heart rate, chills, nausea, sweating, trembling, restlessness, muscle tension, difficulty

concentrating, and fatigue, impacting both emotional and physical abilities. Are musicians more likely to experience generalized anxiety disorder compared to non-musicians? This study of undergraduate students including both music and non-music majors seeks to find out if anxiety is experienced in everyday situations off the stage. A limited study of undergraduate music and non-music majors were interviewed as to their inherent level of anxiety in their daily activities.

Walker, Anthony

The Rise and Fall of the Houston Astros

My Honors Thesis Project is a mini-documentary focusing on the Houston Astros cheating scandal of 2017. The methods I use include editing and mixing existing, as well as producing original narration and footage of how the Astros cheated. I also analyze player reactions to the scandal. The effects of this scandal expand well beyond what happened on the field. People lost jobs, careers ended, and the integrity of the sport is now somewhat tarnished. The Astros Scandal is one of the biggest cheating scandals in sports history, and you can argue it may be the tip of the iceberg in this era of social media and video cameras. The involvement of management as well as players in the cheating scandal suggests future danger for the sport. This documentary exposes how the pressure to win and the huge payout for winning the World Series have raised the stakes for baseball and sports in general.

Willekes, Brooke

Quitting the Hospitality Industry During the Great Resignation

During the Great Resignation that swept our nation in early 2021, thousands of Americans quit their jobs. Many entered new industries and professions while others are currently jobless or still seeking new opportunities. During this time, the hospitality industry experienced one of the highest resignation rates. As a student majoring in Human Resources Management, my research addresses why so many Generation Z workers from the northern New Jersey area resigned from their jobs. I argue that our region was among the most challenged by strict government Covid-19 policies, high inflation, and high traffic and congestion. Through oral histories, examinations of social media, and journalism, I explore the personal side of the Great Resignation. In my thesis, I investigate why GenZ employees from this industry quit their jobs, what would have made them stay, and what working conditions this generation wants. Overall, the thesis provides a lens for a deeper understanding of the GenZ workforce for prospective employers and human resource managers.

Wojna, Justin

Press Play: An Electronic Music Album

Press Play is a nine-song electronic music album inspired by the composer's life experiences. The songs relate to different moments in his childhood, teenage, and college life, and they

evoke the feelings, emotions, and memories of different times when he would "play" something. The main feelings and concepts touched on in this album are wonder and innocence in a playground, excitement and nostalgia of video games, and the musicality and discipline of practicing and performing music. *Press Play* is separated into three sections consisting of three songs each; there are eight original compositions along with one cover. The composer has harnessed the skills learned over the course of a four-year audio engineering program to record, mix, and master the album. He hopes that listeners enjoy the different textures, melodies, and timbres used to bring his thoughts and experiences to life through music.

Wright, Jessica

The Relationship Between Antenatal Nutrition and Postpartum Depression: A Systematic Review

Postpartum depression is a prevalent mental illness with no definitive causative factors known. Certain lifestyle choices such as eating nutritiously are known to prevent illness and have a positive effect on disease processes. This integrative review examined the current literature on the relationship between antenatal nutrition and postpartum depression. A search of the literature was performed by following the PRISMA guide and using CINAHL and Medline databases. Eligibility criteria included studies that were published between the years 2000 and 2022, that were written in English, and that examined nutrition related to pregnancy as well as postpartum depressive symptoms a year postpartum. The selected studies were peer-reviewed, randomized controlled trials, and systematic reviews. The analysis of the studies examined if certain food groups eaten during pregnancy have an effect on the development of postpartum depression. Results revealed consumption of polyunsaturated fats and a "health conscious diet" during pregnancy significantly

Yearicks, Danni

Anxiety Levels in People with an Autistic Phenotype

Autism is a neurodevelopmental disorder characterized by deficits in social interactions and communications and a pattern of repeated and stereotyped behaviors, interests, or activities. Autistic individuals present symptoms of anxiety at higher rates than neurotypical. However, there is little research on a possible link between having an autistic phenotype without the disorder and experiencing higher levels of anxiety. Between 50-75 young adults aged 18-22 will be recruited via word of mouth, social media outreach, flyer promotion, and SONA for class credit. Participants vary in diagnoses, some on the autism spectrum and some neurotypical. The Broad Autism Phenotype Questionnaire (BAPQ) and the Trait portion of the Spielberger State-Trait Anxiety Inventory (STAI-T) will be administered via Qualtrics. The expected outcome of this empirical study is to find that individuals who score higher on the BAPQ will also perform similarly on the STAI.

Yurt, Sidal

Resilient Coping and Relationship Satisfaction

While greater diversity in societies has increased opportunities for romantic relationships with people from different backgrounds, intercultural couples or partners can be the target of prejudice by society. Therefore, intercultural relationships may cause increased stress and low relationship satisfaction. Although there is a wealth of research on relationship satisfaction in intercultural relationships, research on resilience and coping is limited. To fill this gap in the literature, the present study focuses on the effects of individuals' resilient coping levels on relationship satisfaction. It is hypothesized that individuals with higher resilient coping levels will experience higher levels of relationship satisfaction in intercultural relationships. William Paterson University students who were in a romantic relationship were invited to participate in the study. Relationship satisfaction was assessed using the Relationship Assessment Scale (RAS) and resilient coping levels were assessed using the Brief Resilient Coping Scale (BRCS). It is predicted that participants' resilient coping levels influence their relationship satisfaction.

Zwier, Garrett

Ellie's Academy Business Analysis

Ellie's Academy is a rising modern early development and childcare center located in Somerville, Edison, and Monroe, New Jersey. In this practicum project, we conducted a comprehensive business analysis of Ellie's Academy by assessing the childcare industry, its competitors, and various aspects of business operations including management, marketing, and finances. We further identified several critical risk factors that the owners of Ellie's Academy should consider when expanding their business into different locations. Based on our thorough analysis, we deliver future strategies to catalyze and sustain Ellie's Academy's long-term growth.

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