



**HONORS
COLLEGE**
JAMES MADISON UNIVERSITY

2021
Honors
Symposium

DECEMBER 3, 2021

2021 HONORS SYMPOSIUM

Festival Highlands Room



POSTER PRESENTATIONS

December 3, 12:00 - 3:00 P.M.

Student presenters discuss their poster projects with guests in attendance.



If you would like to submit questions or feedback for student presenters, please scan this QR code:



PINNING

All students participating in the Symposium will receive an Honors College lapel pin in recognition of their dedication and service to scholarly achievements.



POSTER PRESENTERS, SESSION 1

DECEMBER 3, 12:00 - 1:30 P.M.

Grace Bailey (Intelligence Analysis; Independent Scholars): "A Meta-Analysis to Explore the Effect of Internet Addiction on Individual Logical Reasoning and Problem-Solving Processes"

Capstone Thesis Project | Advisor: Phil Frana, PhD | Poster 1

ABSTRACT: This research thesis evaluates the hypotheses that internet addiction negatively affects an individual's quality of problem-solving and logical reasoning processes. The paper explores the modern phenomenon of internet addiction and how it can affect or inhibit cognitive ability to process and evaluate new information.

Kenya Balsler (Marketing): "Investigating the Relationship Between Vulnerability and Feedback in High Performing Teams"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 2

ABSTRACT: This poster explores the concept of vulnerability and feedback with regard to high-performing teams. Improving vulnerability and feedback skills on an individual level can ensure we are positively contributing at the team level.

Kyrie A. Bassett (Nursing): "Influenza Vaccination Hesitancy within the United States Geriatric Population"

Capstone Thesis Project | Advisor: Deborah Elkins, DNP | Poster 3

ABSTRACT: This research evaluates the efficacy of public health interventions to decrease influenza vaccine hesitancy and increase influenza vaccine uptake among the U.S. geriatric population. Increasing vaccination rates will reduce the spread of communicable, preventable diseases and decrease public health costs.



POSTER PRESENTERS, SESSION 1

DECEMBER 3, 12:00 - 1:30 P.M.

Phoebe Brueger (Nursing): "An Analysis of the Spread of Streptococcus pneumonia During the Hajj: A Review of the Literature"
Capstone Thesis Project | Advisor: Andrea Knopp, PhD | Poster 4

ABSTRACT: The Hajj is the largest and oldest mass gathering in the world. This gathering presents an interesting public health perspective when analyzing the spread of Streptococcus pneumoniae. This literature review highlights recommendations for future research needed in order to inform vaccination policy.

Adam Chutuape (Philosophy and Religion): "The Function of American Religion in the Orientation of Filipinx Peoples in America"
Capstone Thesis Project | Advisor: Robert Brown, PhD | Poster 5

ABSTRACT: Synthesizing research on immigrant orthodoxy, liberal imaginings, and Filipino history, I investigate through several cases how Filipinos are oriented under the American regime through religion.

Thomas Clark (Computer Information Systems): "Challenges of Communication and Fostering Creativity and Innovative Thought in Online vs. Offline Teams"
Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 6

ABSTRACT: More organizations are moving from in-person teams to virtual teams, especially in the wake of the COVID-19 pandemic. This paper evaluates how creativity and innovative thought are impacted by this shift, and how different methods of communication can affect these outcomes.



POSTER PRESENTERS, SESSION 1

DECEMBER 3, 12:00 - 1:30 P.M.

**Sydney Dudley (English; Writing, Rhetoric and Technical Communication),
Laura Garman (International Business), Emily Marsch (Geology) & Kerrington
Martin (Justice Studies): "An Intra-major Exploration of Diversity and Inclusion
in Honors"**

Honors Class Project - HON 300 | Professors: Jared Diener & Alysia Davis, PhD | Poster 7

ABSTRACT: A proposal for a new Honors 1 credit course that allows students to complete research regarding diversity in their major. Students would take this during their sophomore year as a way to further engage with their field of study.

**Sydney Inger (Independent Scholars): "Law, Policy, & Bureaucracy: Contributions
to Systemic Bias Against LGBTQ+ Youth in the Foster Care and Adoption Systems"**

Capstone Thesis Project | Advisor: B.J. Bryson, PhD | Poster 8

ABSTRACT: Social service systems across the United States have the task of ensuring the safety of youth. LGBTQ folks are a particularly vulnerable population entering the system as their identities may not be accepted or affirmed by their foster parents or group home workers. My research asks how existing nondiscrimination policy and legislation can inform policies implemented to protect LGBTQ+ youth in foster care.

**Meghan Lankford (Communication Sciences & Disorders), Amy Millesen
(Trumpet Performance), Geselle Ramos (Social Work) &
Lindsay Zirkle (Biotechnology): "Understanding Bias"**

Honors Class Project - HON 300 | Professors: Jared Diener & Alysia Davis, PhD | Poster 9

ABSTRACT: This poster explores implementing a first-year Honors course that includes critical and useful research skills such as student/professor behavior, understanding authors' credibility for capstone/thesis research within major, and public speaking.



POSTER PRESENTERS, SESSION 2

DECEMBER 3, 12:00 - 1:30 P.M.

Gabika Watson (Independent Scholars): "The Environmental Feedback Loop & Consumer Culture"

Honors Class Project - IND 300 | Professors: Matthew Chamberlin, PhD & Phil Frana, PhD | Poster 10

ABSTRACT: This inquiry examines the role consumer culture plays as a factor driving systemic environment problems. Consumer culture is a common lifestyle choice where the masses participate in excessive consumption because of a perceived need for continuous buying perpetrated by market forces. We must value thrift and sustainability over the desire to simply have more.

Sophia Waugh (Nursing): "The Outcomes of the Pharmacotherapeutic Effects of Ibogaine Therapy in the Treatment of Opioid Disorder: A Literature Review"

Capstone Thesis Project | Advisor: Christine Argenbright, PhD | Poster 11

ABSTRACT: This literature review assesses the safety and efficacy of an alternative treatment option for Opioid Use Disorder called Ibogaine Hydrochloride. Ibogaine is an indole alkaloid derived from a plant native to West Africa. Ibogaine is being tested outside of the United States for use as a method of opioid detoxification.



POSTER PRESENTERS, SESSION 2

DECEMBER 3, 1:30 - 3:00 P.M.

**Amanda Arrain (Interdisciplinary Liberal Studies): "Finding My Passion:
A Future in Elementary Education"**

Senior Portfolio Project | Mentor: Donica Hadley, PhD | Poster 12

ABSTRACT: My Senior Portfolio Project is a representation of my journey from a major in Health Sciences to a major in Elementary Education. My 4.5 years at JMU were motivated by and are largely a reflection of my passion for giving back and making an impact on others.

**Ani Basica (Interdisciplinary Liberal Studies), Chesney Benson (Biology), Brooke Burdick (Geographic Science) & Signira Chisley-Strickler (Justice Studies):
"Accessibility and Accommodations at James Madison University"**

Honors Class Project - HON 300 | Professors: Jared Diener & Alysia Davis, PhD | Poster 13

ABSTRACT: This inclusive pedagogy poster focuses on reinvention and education of the current disability and accessibility policy. These changes would be implemented in the Honors First Year Experience in the form of a class topic of discussion. Our proposal addresses current inclusivity discrepancies, explains the problem, and proposes a possible solution.

Lilly Byrne (Accounting), Megan Gillespie (Communication Sciences and Disorders), Kritika Shah (Economics) & Hannah Wangler (Modern Foreign Languages): "Diversifying the Honors First Year Experience"

Honors Class Project - HON 300 | Professors: Jared Diener & Alysia Davis, PhD | Poster 14

ABSTRACT: We created a curriculum plan for a week of the first year Honors course, Honors 100, in an attempt to increase knowledge of diversity across all areas including religion, sexual orientation, and race. One thing that is not taught in schools, that we desperately need to learn, is how to interact with the diverse world around us.



POSTER PRESENTERS, SESSION 2

DECEMBER 3, 1:30 - 3:00 P.M.

Alexandra Dauchess (SMAD: Digital Video and Cinema): "Theater on the Silver Screen"

Independent Research Project | Professor: Michael Grundmann, MFA | Poster 15

ABSTRACT: I worked with the Critics and Awards Program (CAPPIES), a national non-profit dedicated to helping high-school students learn about journalism and the arts, to develop a series of training videos to teach new students about the expectations and policies of the CAPPIES program.

Mira Dover (SMAD: Creative Advertising), Ashley Harrell (History; Psychology), Darby Henn (Elementary Education) & Alexia Muñoz-Moctezuma (Psychology): "Outreach for All: A Proposed HON 300 Course Focusing on Free College Preparatory Classes"

Honors Class Project - HON 300 | Professors: Jared Diener & Alysia Davis, PhD | Poster 16

ABSTRACT: We seek to implement an outreach program that focuses on providing college preparatory resources for Harrisonburg High School students through the James Madison University Honors College. Our proposed program intends to bridge the college accessibility gap, especially for prospective first-generation college students.

Jack Finnegan (Business Management): "Psychological Safety and Team Effectiveness"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 17

ABSTRACT: Trends in the business world have indicated that more organizations are striving to improve their organizational effectiveness by requiring collaboration and idea generation from all employees as opposed to only upper-level positions. This change stresses the importance of employees being well-versed in how to properly navigate this new environment. Psychological safety is a very important aspect deeply correlated with team effectiveness.



POSTER PRESENTERS, SESSION 2

DECEMBER 3, 1:30 - 3:00 P.M.

Samantha Forbes (Chemistry): "Hemp Biomass: The Improvement on Commercial Extraction of Phytocannabinoids"

Non-Honors Class Project - CHEM 380B | Professor: Daniel Downey, PhD | Poster 18

ABSTRACT: The phytochemicals have alleged medical benefits and must be separated from the plant biomass for the manufacture of drugs and dietary supplements. We examine three popular commercial extraction technologies: single pass ethanol, multi-pass ethanol, and supercritical fluid CO₂ for efficiency, yield, and throughput.

Ajah Harris (Physics): "Investigation of Ancient and Hypothetical Astronomies"

Honors Option Project - ASTR 220 | Professor: Harold Butner, PhD | Poster 19

ABSTRACT: This work investigates three culturally and geographically distinct ancient civilizations to track how their environment and culture informed their interpretation of the sky. The work also proposes how these same civilizations would understand a hypothetical sky resulting from the planet being placed in a fictional solar system and in a different part of the Milky Way.

Beryl Ignacio (Health Services Administration): "My Becoming"

Senior Portfolio Project | Mentor: Allison Fagan, PhD | Poster 20

ABSTRACT: My presentation will showcase the soft skills I learned through my time at James Madison University. This will be presented via the Portfolium website.



POSTER PRESENTERS, SESSION 2

DECEMBER 3, 1:30 - 3:00 P.M.

Rachel Stegmeier (ACS Chemistry): "Statistical Evaluation of the Variation in Hemp"

Capstone Thesis Project | Advisor: Daniel Downey, PhD | Poster 21

ABSTRACT: Cannabis sativa (hemp) has been propagated for low tetrahydrocannabinol (THC) and high cannabidiol (CBD) content. Crops must be destroyed if THC levels exceed the maximum legal limit of 0.30% when tested to ensure compliance. In the present study, we studied variations in cannabinoid content within different parts of the same plant and as well as compared to other crops. Results indicate that overall cannabinoid content is not often represented in compliance testing, which may cause crops to be destroyed by regulators and resulting in significant economic loss to farmers.

Mya Warren (Computer Information Systems): "The 'Me' in 'We'"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 22

ABSTRACT: Teamwork is a heavily interpersonal-related skill, so the success of the group depends greatly on the relationships between the members. Team diversity ultimately affects the efficiency and productivity of the group.



POSTER PRESENTERS

DECEMBER 3, VARYING TIMES

Layla Abbud (Biotechnology): "Leading MHLC Out of the Pandemic"

Practicum Project - Leadership | Advisor: Brad Newcomer, PhD | Poster 23

ABSTRACT: This Leadership Practicum focused on my role on the Madison Honors Leadership Council (MHLC) as the Social Committee Chair through times of change. I discuss challenges and advantages I faced trying to lead my committee and organization out of the pandemic.

Olivia Coates (Marketing): "Identifying Skills and Personality Traits of Emergent Leaders and Non-Emergent Leaders in Virtual Teams"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 24

ABSTRACT: This poster explores the role of technology in virtual teams, as well as ways to identify emergent leaders and non-emergent leaders to create a successful and efficient team. Nonverbal behavior, personality traits, and skills are identifiers of emergent leaders and non-emergent leaders. These identifiers are important to recognize because emergent leaders and non-emergent leaders are more difficult to determine in virtual teams.

Courtney Fusting (Business Management): "Balancing the Positive and Negative Effects of Organizational Citizenship Behavior"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 25

ABSTRACT: I analyze Organizational Citizenship Behavior (OCB) in the workplace. The increase in social capital and fulfillment of one's work while being involved in the organization supports the drive to continue participating in OCB activities. OCB can quickly become a negative aspect in one's life when one extends themselves too thin and take control over too many extra tasks that are not within one's explicitly listed responsibilities. If not managed correctly, one may experience Citizenship Fatigue which detracts their work life and personal life.

POSTER PRESENTERS

DECEMBER 3, VARYING TIMES

Sophia Hudak (Marketing): "The Main Attributes that Impact Virtual Teams"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 26

ABSTRACT: This study aims to analyze important factors organizations should examine when using virtual teams such as the level of group size, channel richness, and trust. Results suggest that when using virtual teams, organizations need to match the complexity of the task to the appropriate usage level of virtual teams.

Huy Nguyen (Engineering): "The Potential of Industrial Hemp in Heavy Metal Phytoremediation"

Capstone Thesis Project | Advisor: Samuel Morton, PhD | Poster 27

ABSTRACT: This thesis explored the ability of industrial hemp, *Cannabis sativa* L., to be a candidate for phytoremediation of selenium-contaminated soils. Hemp seedlings were grown in soils inoculated with aqueous solutions of selenium. The hemp was allowed to grow in the contaminated soil and was ultimately analyzed in situ to determine where in the plant, and in what concentrations, selenium was highly concentrated.

Rachel Schweitzer (Marketing): "Cultural Diversity in Team Environments"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 28

ABSTRACT: With further understanding of the impact that cultural diversity has on teams regarding group success, groups can improve and better achieve their objectives. Observations of group dynamics in various settings show that culturally diverse teams benefit through effective communication and information processing, as well as considering depth in problem solving.

Amelia Yoder (Business Management): "The Problems Presented in Promoting Identity in Virtual Teams"

Honors Class Project - COB 300H | Professor: John Guo, PhD | Poster 29

ABSTRACT: This study examines which factors create problems within virtual teams with consideration to the formulation of identity in a team setting. With the rise in virtual work settings after the pandemic, I hypothesize that virtual teams are hindering the creation of individual identity.

2021 Medallion Ceremony

Friday, December 17

12:00 P.M.

Festival Highlands Room

The Honors College recognizes graduating seniors at a special Medallion Ceremony.

Students are requested to wear regalia (except for the mortar board/cap) for the presentation. The presentation program includes student speaker Marina George ('22) and conferring of medallions. Students must register to attend.



Questions? Contact Tammy Steele, Executive Assistant at
540-568-7728 or via email at steeletm@jmu.edu

The **Honors Symposium** showcases academic research and creative scholarship by JMU Honors College students. Through the Capstone Thesis Project, students gain advanced knowledge and skills in their chosen fields and produce substantial research theses or creative projects. The Senior Portfolio Project is a Capstone alternative in which students use critical reflection to frame the significance of their full archive or work at JMU. All Honors College students are expected to publicly present their work and the Honors Symposium is one of several opportunities to do so. The projects presented here represent the range and diversity of work undertaken by Honors College students and highlight the excellence of undergraduate scholarship at JMU.

The Honors College at James Madison University is an academic community engaging highly motivated and intellectually gifted students in exceptional experiences that develop excellence in leadership, scholarship, and service.



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