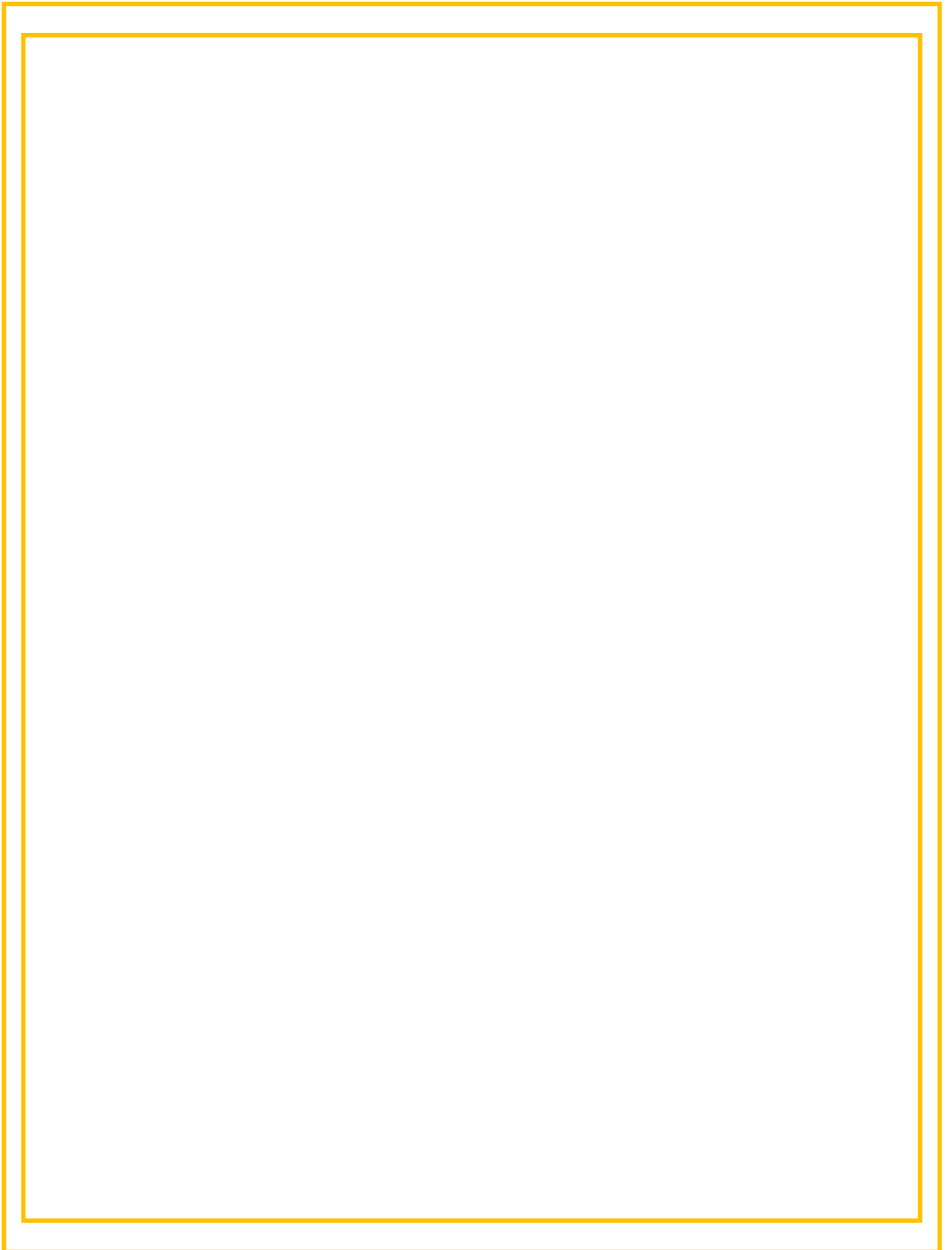


Undergraduate Research

Creative Activities





College of Applied Studies

Millicent Setzkorn | *Exercise Science* | 2019-2020

"Pilot Study: Comparison of Vertical Jump Assessments between DARI motion capture, My Jump 2 App, and traditional Vertec."

Dr. Heidi Bell | *Human Performance Studies*

Vertical jump assessments can be used to determine an individual's overall explosive capability. The Vertec jump test is one of the most commonly used tools for measuring vertical reach. With advancing technologies, new methods of assessing vertical jump have presented. The purpose of this study is to determine if the DARI motion capture and the My Jump 2 vertical jump assessments are valid and comparable with the Vertec jump test. All three conditions will be tested within their specified protocol setting. Such findings may further determine whether



Dan Thangi | *Mechanical Engineering* | 2019-2020

"Modified Activated Carbon Materials for Supercapacitor with Ultrahigh Area Capacitance at High Current Density"

Dr. Wei Wei | *Mechanical Engineering*

The widespread application of super-capacitors, which store electrical charge on high-surface-

College of Health Professions

David Lui | *Nursing* | 2020-2021

"Defining the Palladin:F-actin Complex Interface using Crosslinking-Mass Spectroscopy"



Patoul Halimeh | *Biological Sciences* | 2019-2020

"Defining the binding between C-terminal alpha3 chain of type VI collagen and anthrax toxin receptors"

Dr. James Bann | *Chemistry*

Ciara Mould | *Psychology* | 2019-2020
"The Relationship Between Moral Foundations and Opinions on Social Hierarchy"
Dr. C. Brenden Clark | *Psychology*

Moral foundations play a role in people's political affiliations and beliefs. Certain moral foundations (i.e., harm/care and fairness/cheating) are indicative of higher Progressivism, while other moral foundations (i.e., ingroup/loyalty, authority/respect, and purity/sanctity) are more indicative of lower Progressivism. This study examined the relationship between moral foundations and social constructs like Right-Wing Authoritarianism, Social Dominance Orientation, and fear of immigrants. The researchers hypothesized that higher scores on Progressive moral foundations like harm/care and fairness/reciprocity are linked to lower scores on Right-Wing Authoritarianism (RWA), Social Dominance Orientation (SDO), and negative opinions on immigrants. The study found evidence that higher rates of Progressivism predict lower scores on RWA, SDO, and fear of immigrants. The findings further the research on political affiliation and allow us to better understand the link between moral, social, and political domains.

Alyssa Scott | *Creative Writing* | 2019-2020
"Missed Connections - How A Craigslist Ad Can Become A Short Story"
Dr. Darren Defrain | *English*

In this world, people communicate online far more than in person, and because of this it is very easy for people to not only hide who they are but to create completely different personas. The purpose of this artifact is to make someone believe that I could be talking about them, and how our world views typical online "dating." The man, Propergentleman, is a typical male incel within the online world. My form of realism is made to make the reader believe that this ad is real. This type of fake satire, is common. Many ads are faked every day. Maybe not in missed

Kathrynn Smith | *Creative Writing: English Language and Literature | 2019-2020*
"Folks with Jokes: Responding to Nothing"
Dr. Darren Defrain | *English*

In this project, my aim was to portray my personal outlook on the consumption of music and its surrounding culture and industry in today's society. As such, this is a creative work and the ideas expressed which are my unique opinion shaped by readings and study in class along with general observations from the world around me. It is merely a work of creative expression rooted in the study of literary theory and similar texts. As a generalization, I believe that currently, people disregard music's meaning—to show this, I created a fraudulent artifact, or a piece of literature appearing to be something, a record, for example, but itself is not that thing. My project serves to put into question the listener's relationship to the lyrics in a song and how often, they may value the biographical information of who wrote the song over what the song says .

