

## 2022 Student Scholarship Expo Award Winners

### President's Awards

#### ***The President's Award for a Graduate Student***

William Beachum III

*Advance Care Planning in a Primary Care Setting: Development and Implementation of a Quality Improvement Project*  
under the mentorship of Dr. Kelly Fogelmark, Nursing

#### ***The President's Award for an Undergraduate***

Samuel Becker, Ravi Chand, Tyler Kallas, and Joseph Tomazin

*Load-Center Temperature Sensing Module*

under the mentorship of Brian Barney, Mechanical Engineering

### The Susan Brill de Ramirez and Antonio Ramirez Barron Provost's Awards

#### ***The Susan Brill de Ramirez and Antonio Ramirez Barron Provost's Award for a Graduate Student***

Crystal Brown, Hope Rossner, Emily Stidham, and Camryn Picken

*Quantifying mechanical properties of bulk cancer cells*

under the mentorship of Dr. Kalyani Nair, Mechanical Engineering, and Dr. Craig Cady, Biology

#### ***The Susan Brill de Ramirez and Antonio Ramirez Barron Provost's Award for an Undergraduate***

Madison Dillerud, Alaina Mabie, Alli Erdmier, Sage Beckes, Breana Wayne, and Walker Koeltzow

*Memory and Motor Behavior: Investigating the Role of Dopamine D1 in PTSD Pathophysiology and Behavioral Symptom Expression*

under the mentorship of Dr. Tim Koeltzow, Psychology

**College of Liberal Arts and Sciences**

***The College of Liberal Arts and Sciences Award in the Social Sciences for an Undergraduate***

Taylan Cantrell

*Disability in University Students: a Phenomenological Study of Stigma and Identity*

Under the mentorship of Dr. Lizabeth Crawford, Sociology, Criminology, and Social Work

***The College of Liberal Arts and Sciences Award in the Natural Sciences for a Graduate Student***

Josh Stoltenberg and Alex Kuiken

*Synthesis of Low Molecular Weight Polyacrylates Functionalized with Cationic and Glycerolic Groups for Antibacterial Application*

under the mentorship of Dr. Arijit Sengupta, Chemistry and Biochemistry

***The College of Liberal Arts and Sciences Award in the Natural Sciences for an Undergraduate***

Charles Putman and Sharbel Khoury

*Compositional and Physical Characterization of Silica, Ceria, and Ceria-Coated Silica Abrasive Nanoparticles used in Chemical Mechanical Planarization Slurries*

under the mentorship of Dr. Ed Remsen, Chemistry and Biochemistry

***The College of Liberal Arts and Sciences Award in Computer Science and Mathematical Sciences for an Undergraduate***

Qing Qing Yang, Samit Shah, Samuel Carpenter, Brayden Brekke, Meridith Koch, Quinn Donnelly, and Tiara Ravix

*OnTrack - Algorithmic Detection of Student Depression and Anxiety*

under the mentorship of Dr. Samuel Hawkins, Computer Science and Information Systems

***The College of Liberal Arts and Sciences Award in the Humanities for an Undergraduate***

Giuliana Piccione

*The Literary Value of Weaving Women: Gender, Manufacturing, and Social Movements*

under the mentorship of Dr. Rob Prescott, English

**Caterpillar College of Engineering and Technology**

***The Caterpillar College of Engineering Award in Mechanical Engineering for an Undergraduate***

Jake Wohld, Kevin Apmann, Ryan Fulmer, and Josh Beck  
*Nanofluid Thermal Conductivity: Effects of Nanofluid Characteristics*  
under the mentorship of Dr. Saeid Vafaei, Mechanical Engineering

***The Caterpillar College of Engineering Award in Civil Engineering for an Undergraduate***

Reema Sweidan  
*Road Condition Inspection Using Cellphone App*  
under the mentorship of Dr. Imran Hossain, Civil Engineering and Construction

***The Caterpillar College of Engineering Award in Electrical and Computer Engineering for an Undergraduate***

Brad Schaeffer, Mark Allen, and Cole Kelly  
*Swarm Control of Crazyflie Drones*  
under the mentorship of Dr. Jing Wang, Electrical & Computer Engineering

***The Drs. Prasad and Sunita Shastry Award for Excellence in Electrical and Computer Engineering***

Reede Norlie, Nick Ruskowsky, and Jacob Bednar  
*Smart Autonomous Lawn Care System*  
under the mentorship of Dr. Mohammad Imtiaz, Electrical and Computer Engineering

**Foster College of Business**

***The Foster College of Business Award for a Graduate Student***

Elise Toland  
*Outsourcing Accounting Services to India and the Effect on American CPAs*  
under the mentorship of Dr. Rajesh Iyer, Marketing

***The Foster College of Business Award for an Undergraduate***

Jack Patterson, Angeleen Hill, Matthew Frank, and Nathaniel Bickle  
*Maintained Metals*  
under the mentorship of Ted Fleming, Biology, and Philip Lockwood, Entrepreneurship, Technology, and Law

## College of Education and Health Sciences

### ***The College of Education and Health Sciences Award in Health Professions for a Graduate Student (Tie)***

Katelyn Dial and Rebecca Magolan

*Physical Therapy and Caregiver Burden: A Mixed Methods Design*

under the mentorship of Dr. Jamie Way and Dr. Melissa Peterson, Physical Therapy and Health Sciences

Mary Daly, Matt Haas, Amanda McClain, and Ashley Willette

*Investigating Stomatognathic System Stimulation & the Effects on Reaction Time and Balance: A Pilot Study*

under the mentorship of Dr. Pam Durr, Physical Therapy and Health Sciences

### ***The College of Education and Health Sciences Award in Family and Consumer Science for a Graduate Student***

Grace Mooney

*A Qualitative Study to Compare Food-Insecure College Students' Eating Behaviors with and without Access to a Campus Food Pantry*

under the mentorship of Dr. Rachel Vollmer, Family and Consumer Sciences

### ***The College of Education and Health Sciences Award in Family and Consumer Science for an Undergraduate***

Daniela Diaz, Natalie Johnson, Veronika Roberts, and Olivia Taluc

*Evaluation of a Sleep Hygiene Program*

under the mentorship of Dr. Teresa Drake, Family and Consumer Sciences

### ***The College of Education and Health Sciences Award in Education for an Undergraduate***

Melissa Martin, Kelsey Gawel, and Olivia Schnee

*Mental Health and Suicide: Using Romeo and Juliet to Help Students Understand 'You Are Not Alone'*

under the mentorship of Dr. Deitra Kuester, Teacher Education

## Slane College of Communications and Fine Arts

### ***The Slane College of Communications and Fine Arts Award in Communication for an Undergraduate***

Bobby Smid

*Visceral Homophobia*

under the mentorship of Dr. Elena Gabor, Communication

## Masi International Scholars Award

Lorie Ewert

*Impact of U.S. Foreign Policy on Women's Rights in Afghanistan*

under the mentorship of Dr. Charles Bukowski, International Studies