



2018  
STUDENT RESEARCH AND  
CREATIVE ACTIVITY FAIR

# AWARD WINNERS

## UNDERGRADUATE

### ORAL PRESENTATIONS

#### BEST

**SAMANTHA SACK**

Biotechnology

*"Towards a mechanism of action of an antischistosomal drug: measuring granulocytic activity"*

Advisor: Paul Davis

#### OUTSTANDING

**ZACHARY MEADE**

Electrical Engineering

*"Validation of Postural Sway Measurements using Wii Balance Board"*

Advisor: Kota Takahashi

#### MERITORIOUS

**ALYSSA AVERHOFF**

Biotechnology

*"Analysis of postural control variability of children with Autism Spectrum Disorders"*

Advisor: Mukul Mukherjee

#### HONORABLE MENTION

**HARIM WON**

Biotechnology

*"Gene Expression Modification Initiates Stage Conversion in Toxoplasma gondii"*

Advisor: Paul Davis





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### POSTER PRESENTATIONS

#### BEST

KYLE DLOUHY

Computer Engineering

*"Field Condition Sensor Network System"*

Advisor: Roger Sash

#### OUTSTANDING

LAUREN WEHRLE

Elementary Education-STEM

*"Relationship between the Mullen Scales of Early Learning and Posture Control Measures"*

Advisor: Mukul Mukherjee

#### MERITORIOUS

HALEY HASSENSTAB

Biology

*"Marmoset Models of Microbiome"*

Advisor: Jeffrey French

#### HONORABLE MENTION

HENAMARI YBAY

Biology

*"Measurement of Muscle Oxygen Saturation of the Gastrocnemius of Healthy Controls"*

Advisor: Sara Myers





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### ORAL PRESENTATIONS

#### BEST

**KEATON YOUNG**

Biomechanics

*“Technical, Clinical and Functional Considerations for the Development of 3D Printed Upper-Limb Prostheses”*

Advisor: Jorge Zuniga Ulloa

#### OUTSTANDING

**EMILY PACHUNKA**

Biomedical Informatics

*“Measuring cognitive load using eye tracking to evaluate the usability of an electronic patient intake form”*

Advisor: Ann Fruhling

#### MERITORIOUS

**MICHAEL MAZGAJ**

Business Administration

*“Understanding Leadership Development Through Virtual Content of Violent Extremist Organizations”*

Advisor: Gina Ligon

#### HONORABLE MENTION

**NICOLE DAMEN**

Management Information Systems

*“Blinded by function? Investigating implicit trust behavior towards home automation devices”*

Advisor: Christine Toh





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### POSTER PRESENTATIONS

#### BEST

JAMES PIERCE

Biomechanics

*"3D Printed Prostheses for Children: A Tool to Monitor Upper Limb Movement"*

Advisor: Jorge Zuniga Ulloa

#### OUTSTANDING

ANNA BUHMAN

Computer Science

*"Towards Robust Classification in Adversarial Learning using Bayesian Games"*

Advisor: Prithviraj Dasgupta

#### MERITORIOUS

VIKAS SAHU

Management Information Systems

*"Visualize to Realize: Improving Safety of First Responders"*

Advisor: Ann Fruhling

#### HONORABLE MENTION

CHRISTINA ANGELI

Exercise Physiology

*"The Effect of Mechanism to Achieve Hypoxic Load on the Exercise Response"*

Advisor: Dustin Slivka



OFFICE OF RESEARCH AND CREATIVE ACTIVITY

UNIVERSITY OF  
Nebraska  
Omaha