



2019
STUDENT RESEARCH AND
CREATIVE ACTIVITY FAIR

AWARD WINNERS

UNDERGRADUATE

ORAL PRESENTATIONS

BEST

SAMANTHA SACK

Student Major: Biotechnology

*"Elucidation of the mechanism of action of antischistosomal compound SAS1
by host immune cell functional analysis"*

Advisor: Paul Davis, Department of Biology

OUTSTANDING

DONOVAN ORN

Student Major: Computer Science

*"A Comparative Study for Feature Selection Algorithms to Analyze Gait Patterns
for Health Purposes"*

Advisor: Hesham Ali, Department of Computer Science

MERITORIOUS

MATTHEW MCCONNELL

Student Major: Criminology and Criminal Justice

*"Organizational Power and Organizational Tolerance of Sexual Harassment: The
Effects on Bystanders in the Military"*

Advisor: Lisa Scherer, Department of Psychology

HONORABLE MENTION

SEAN WATSON

Student Major: Molecular Biology

"ON THE MODE OF ACTION OF ANTITOXOPLASMA COMPOUND SW33"

Advisor: Paul Davis, Department of Biology



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POSTER PRESENTATIONS

BEST

KATHERINE SINDELAR

Student Major: Bioinformatics

*"Life in the Phyllobiome: Functional Adaptations in *Novosphingobium* sp. 'Leaf2',
a Leaf-Borne Alphaproteobacteria"*

Advisor: Dhundy Bastola, School of Interdisciplinary Informatics

OUTSTANDING

SARAH PARCHER

Student Major: Geology

"Geologic history of a metamorphic core complex in NW Spitsbergen"

Advisor: Harmon Maher, Department of Geography/Geology

MERITORIOUS

MATTHEW FROID

Student Major: Biology

"Large Scale Dynamical Model of Macrophage/HIV Interactions"

Advisor: Jim Rogers, Department of Mathematics

HONORABLE MENTION

IAN SLOAN

Student Major: Biomechanics

*"SUBTHRESHOLD VIBRATION INFLUENCES THE POSTURE AND GAIT OF TRANSTIBIAL
AMPUTEES"*

Advisor: Nicholas Stergiou, Department of Biomechanics



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NIKOLAOS PAPACHATZIS

Student Major: Biomechanics

"The Energy Paradox of the Ankle-Foot Complex during Human Walking"

Advisor: Kota Takahashi, Department of Biomechanics

OUTSTANDING

TAKASHI SADO

Student Major: Health, Physical Education & Recreation

"Passive exoskeleton assisted treadmill walking reduces duration and regularity of inter-limb coupling"

Advisor: Mukul Mukherjee, Department of Biomechanics

MERITORIOUS

STEVEN WINDISCH

Student Major: Criminology and Criminal Justice

"I am the Master of my Fate: How One's Locus of Control Influences Entry Type and Level of Extremist Participation"

Advisor: Gina Ligon, Department of Management

HONORABLE MENTION

DAVID SALAZAR

Student Major: Management Information Systems

"The utility of 3D printing as a method of pre-operative planning for pediatric skull surgeries"

Advisor: Jorge Zuniga, Department of Biomechanics



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SARAH CARP

Student Major: Psychology

"Marmosets Respond Consistently to Threats Across Contexts"

Advisor: Jeffrey French, Department of Psychology

OUTSTANDING

MEGAN VANDE HEI

Student Major: Health, Physical Education & Recreation

"Skeletal Muscle Mitophagy In Response To Cold Exposure During Exercise"

Advisor: Dustin Slivka, School of Health & Kinesiology

MERITORIOUS

NAMWOONG KIM

Student Major: Health, Physical Education & Recreation

"Influence of hip abductor fatigue on ACL loading during single-leg landing"

Advisor: Brian Knarr, Department of Biomechanics

HONORABLE MENTION

KELLEY JENSEN

Student Major: Management Information Systems

"Utilizing Technology to Empower Girls"

Advisor: Sachin Pawaskar, Information Systems & Quantitative Analysis