



**LONGWOOD EXCELLENCE IN
RESEARCH &
CREATIVE INQUIRY
& INCITE**

AWARD CEREMONY

WEDNESDAY · 22 APRIL 2020 · 2:00 P.M.

<https://zoom.us/j/96395410884>

Welcome! Thank you for joining us to acknowledge and celebrate our students who have gone above and beyond in their pursuit of research and creative inquiry! The awards ceremony will include the winners of the INCITE Journal of Undergraduate Scholarship awards, and students who are being recognized with the Longwood Excellence in Research and Inquiry Award. All award recipients will receive a medallion and a certificate to recognize their achievement.

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Award Recipients

Students who presented research at a scholarly conference or had a performance or exhibition of creative work outside of Longwood University

Bethany Adams (Faculty sponsor, Dr. Andrew Yeagley)

*Accepted to present at ACS Virginia Section meeting, Charlottesville, VA; Accepted to present at ACS National Meeting in Philadelphia, PA, Synthesis of substituted bisphenol probes towards the investigation of antagonistic effects observed with 3,5-substituted paraben derivatives

Taylor Alvey (Faculty sponsor, Dr. Denis Trubitsyn)

*Virginia Academy of Science 2019 Annual Meeting and Vera Remsburg Scholarship (Virginia Academy of Science) , The role of Mad2 gene expression in elongation of cuboctahedral magnetosome morphology

Kirsten Bauer (Faculty sponsor, Dr. Dina Leech)

*2019 Atlantic Estuarine Research Society Conference at the George Mason Potomac Science Center, Ecosystem Restoration and Water Quality Monitoring at Longwood University's Hull Springs Farm Westmoreland County, VA

Megan Bland (Faculty sponsor, Dr. Amorette Barber)

*National Collegiate Honors Council Conference 2019, New Orleans, Ability of Flavonoids to Mimic the Estrogen Receptor to Drive Myeloid Derived Suppressor Cell Differentiation

Brianna Cervantes (Faculty sponsor, Dr. Denis Trubitsyn)

*Virginia Academy of Science 2019 Annual Meeting, The Effect of Mad2 protein on the morphology of magnetic crystals in Magnetospirillum gryphiswaldense MSR-1

Ashley Cooper (Faculty sponsor, Dr. JoEllen Pederson)

*Accepted to the SYNAPSE 2020 Conference,

Bailey Gadberry (Faculty sponsor, Dr. Sujan Henkanaththegedara)

*The Annual Meeting of Virginia Academy of Science, Assessing the Impacts of Hurricanes on Avian Diversity and Community Composition: A Novel Method Using Citizen Science

Sarah Ghali (Faculty sponsor, Dr. Sarah Porter)

*Accepted to present at ACS Virginia Section meeting, Charlottesville, VA; Accepted to present at ACS National Meeting in Philadelphia, PA, Analysis of Petroleum Products for Forensic and Environmental Applications

Shannon Graham (Faculty sponsor, Dr. Wendy Pulliam)

*SHAV (Speech Hearing Association of Virginia), ASHA (American Speech Hearing Association), ASHA-schools, Effect of Instruction Method on Competency and Perception of Prologue2go

Adonel Grubb (Faculty sponsor, Dr. Andrew Yeagley)

*ACS Regional Meeting, Charlottesville, VA, Synthesis and antimicrobial evaluation of gallate esters

Meghan Hall (Faculty sponsor, Dr. Erin Shanle)

*American Society for Biochemistry and Molecular Biology Conference, Cancer mutations inhibit the coactivator activity of p300 core

Abigail Harris (Faculty sponsor, Dr. Sujan Henkanaththegedara)

*Fall Undergraduate Research Meeting, Virginia Academy of Science, Evaluation of Aggressive Interactions between Native and Invasive Crayfish using 3D Tracking

Caitlin Harris (Faculty sponsor, Dr. Erin Shanle)

*American Society of Biochemistry and Molecular Biology Conference, Using *S. cerevisiae* to screen cancer mutations in the DNA damage response pathway

Brandon Hastings (Faculty sponsor, Dr. Brandon Jackson)

*Society for Integrative and Comparative Biology, Analyzing the Flight Patterns and Behavior of Dragonflies Engaged in Aerial Territory Battles

Thomas Hoke (Faculty sponsor, Dr. Sujan Henkanaththegedara)

*Fall Undergraduate Research Meeting, Virginia Academy of Science, Evaluation of Aggressive Interactions between Native and Invasive Crayfish using 3D Tracking

Derek Holmberg (Faculty sponsor, Dr. Kenneth A Pestka II)

*177th Meeting of the Acoustical Society of America, Acoustic and dynamic characterization of wooden baseball bats

Joshua Hutchinson (Faculty sponsor, Dr. Frank Bacon)

*ASBBS Conference, 2008, 2012, 2016 Summer Olympics: A Test of Market Efficiency

Lauren Johnson (Faculty sponsor, Dr. Ben Topham)

*Accepted to present at ACS Virginia Section meeting, Charlottesville, VA; Accepted to present at ACS National Meeting in Philadelphia, PA, Energy level pinning in single molecule electronics; A Computational Study of Single Molecule Diodes

Sarah Kamen (Faculty sponsor, Dr. Mark Fink, Jennifer Nagashima, and Marcia Ferraz)

*International Embryo Technology Society, From head to tail: a Red wolf sperm project

Courtney Kaczmarek (Faculty sponsor, Dr. Wendy Pulliam)

*SHAV (Speech Hearing Association of Virginia), ASHA (American Speech Hearing Association), ASHA-schools, Effect of Instruction Method on Competency and Perception of Prologue2go

Marcia Lanasa (Faculty sponsor, Dr. Andrew Yeagley)

*ACS Regional Meeting, Charlottesville, VA, Synthesis and antimicrobial evaluation of gallate esters

Elizabeth Llewellyn (Faculty sponsor, Dr. Wendy Pulliam)

*SHAV (Speech Hearing Association of Virginia), ASHA (American Speech Hearing Association), ASHA-schools, Effect of Instruction Method on Competency and Perception of Prologue2go

Hannah Meyls (Faculty sponsor, Dr. Sarah Porter)

*Accepted to present at ACS Virginia Section meeting, Charlottesville, VA; Accepted to present at ACS National Meeting in Philadelphia, PA, Analysis of Phenolic Compounds in Moroccan Olive Oils by HPLC

Kelsey Ostrowski (Faculty sponsor, Dr. Jackie Daniel)

*Virginia Nursing Student Association Annual Convention at Liberty University February 29, 2020, Assessing the Need for a Campus-Wide Sexually Transmitted Infection Clinic at Longwood University

Jesse Plichta-Keller (Faculty sponsor, Dr. Brett Martz and Dr. Sarah Varela)

*New York Academy of Medicine: History of Medicine Night; Network For Undergraduate Research in Virginia Conference , Rinderpest Eradication in East Africa / Green Fairies, Waking Skeletons, and Hysterias: Understandings of and Literary Depictions of Mental Illness in 19 C. Germany

Emily Perevuznik (Faculty sponsor, Dr. Lissa Power-deFur)

*Speech-Language-Hearing Association of Virginia, Auditory Processing Evaluations in College Students

Coralyn Powell (Faculty sponsor, Dr. Rhonda Brock-Servais)

*International Association for the Fantastic in the Arts, The Strange Toxicity of Dr. Jekyll and Mr. Hyde

Reghan Slater (Faculty sponsor, Dr. Lissa Power-deFur)

*Speech-Language-Hearing Association of Virginia, Auditory Processing Evaluations in College Students

Catherine Swinsky (Faculty sponsor, Dr. Brandon Jackson)

*Society of Integrative and Comparative Biology Conference, Don't Shake a Tail Feather: Function of American Goldfinch tails during slow flight

Joshua Walker (Faculty sponsor, Dr. Benjamin Topham)

*Accepted to present at ACS Virginia Section meeting, Charlottesville, VA; Accepted to present at ACS National Meeting in Philadelphia, PA, Designing New Multi-State Single Molecule Switches

Payton Yates (Faculty sponsor, Dr. Wendy Pulliam)

*SHAV (Speech Hearing Association of Virginia), ASHA (American Speech Hearing Association), ASHA-schools, Effect of Instruction Method on Competency and Perception of Proloque2go

Students who published an article in a peer-reviewed scholarly journal or received external funding to support an independent research and inquiry project

Taylor Alvey (Faculty sponsor, Dr. Denis Trubitsyn)

*Vera Remsburg Scholarship (Virginia Academy of Science), The role of Mad2 gene expression in elongation of cuboctahedral magnetosome morphology

Sarah Ghali (Faculty sponsor, Dr. Sarah Porter and Dr. Amorette Barber)

*Mediterranean Journal of Nutrition and Metabolism, Moroccan olive oil varieties reduce reactive oxygen species and cell viability in human cervical cancer cells

Joshua Hutchinson (Faculty sponsor, Dr. Frank Bacon)

*ASBBS Journal, 2008, 2012, 2016 Summer Olympics: A Test of Market Efficiency

Karyn Keane (Faculty sponsor, Dr. Heather Lettner-Rust)

*The Looking Glass, and Sigma Tau Delta Review, Care, No Matter What: Planned Parenthood's Use of Organizational Rhetoric to Expand Their Reputation

William Kish (Faculty sponsor, Dr. Sujana Henkanaththege)

*Virginia Journal of Science, The Diversity and Distribution of Spiders (Arachnida: Araneae) Along an Outdoor Indoor Habitat Gradient: Preliminary Findings from Piedmont Virginia

Hannah Meyls (Faculty sponsor, Dr. Sarah Porter and Dr. Amorette Barber)

*Mediterranean Journal of Nutrition and Metabolism, Moroccan olive oil varieties reduce reactive oxygen species and cell viability in human cervical cancer cells

Jessie Sawyer (Faculty sponsor, Dr. Sean Ruday)

*Virginia English Journal, Bringing Society Inside the Classroom

Faith Shelton (Faculty sponsor, Dr. Sean Ruday)

*Virginia English Journal, Teaching Hip Hop as Poetry

Students who completed a Senior Honors Research Project at Longwood University

Bethany Adams, (Faculty sponsor, Dr. Andrew Yeagley)

With honors in chemistry

*Synthesis of substituted bisphenol probes towards the investigation of antagonistic effects observed with 3,5-substituted paraben derivatives

Jordan Berkompas, (Faculty sponsor, Dr. Thomas Wears)

With honors in mathematics

*Differential Invariants of Curves and Surfaces Under Geometric Transformations

Joshua Hutchinson, (Faculty sponsor, Dr. Frank Bacon)

With honors in finance

*2008, 2012, 2016 Summer Olympics: A Test of Market Efficiency

Nathan Iskowitz, (Faculty sponsor, Dr. Robert Blaisdell)

With honors in kinesiology

*Mouthguard Use on Throwing Velocity

Derek Jones, (Faculty sponsor, Dr. Jo Morrison)

With honors in kinesiology

*Effect of different music genres on cognitive task performance after high intensity interval training

Carrie Reaver, (Faculty sponsor, Dr. Bjoern Ludwar)

With honors in biology

*Identifying Fluctuating Asymmetry and Developmental Rate as Indicators of Developmental Stability in *Drosophila Melanogaster*

Students who published in INCITE, the undergraduate research journal for
the Cook-Cole College of Arts and Sciences at Longwood University

Natural Sciences

1st place: Hannah Meyls

2nd place: Sarah Ghali, Antonio Harvey, and Katelynn McCrillis

Social Sciences

1st place: Megan E. Hlavaty, Samara L. Gall, and Austin J. Funk

Humanities

1st place: Haleigh James

2nd place: Karyn Keane

Art/Design

1st place: Hope Irvin

2nd place: Andrew Jones

Immorality in the Mortal World: Otherworldly Intervention in Lanval and The Wife of Bath's Tale
by Haleigh James (Faculty Advisor: Dr. Larissa Tracy)

Analysis of Phenolic Compounds in Moroccan Olive Oils by HPLC
by Hannah Meyls (Faculty Advisor: Dr. Sarah Porter)

Art **by Hope Irvin**
Faculty Advisor: Lauren Rice

The Effects of Cell Phone Use on Gameplay Enjoyment and Frustration
by Megan E. Hlavaty, Samara L. Gall, and Austin J. Funk (Faculty Advisor: Dr. Sarai Blincoe)

Care, No Matter What: Planned Parenthood's Use of Organizational Rhetoric to Expand its
Reputation
by Karyn Keane (Faculty Advisor: Dr. Elif Guler)

Analysis of Petroleum Products for Forensic and Environmental Applications
by Sarah Ghali, Antonio Harvey, and Katelynn McCrillis (Faculty Advisor: Dr. Sarah Porter)

Art **by Andrew Jones**
Faculty Advisor: Lauren Rice

Triangle Shirtwaist Factory Fire
by Rachel Hazelwood (Faculty Advisor: Dr. David Coles)

Art **by Madison Schmitz** (Faculty Advisor: Lauren Rice)

Ercilla y la imitación: Araucanos al estilo europeo
by Marija Venta (Faculty Advisor: Dr. A. Renee Gutiérrez)

Design **by Haley Tebo**
Faculty Advisors: Wade Lough and Chris Register

Design **by Jeremiah Gilmer**
Faculty Advisors: Wade Lough and Chris Register

White Supremacist's Appropriation of the Persuasion of Passivity in Marvel's Captain America
by Bridget Dunn (Faculty Advisor: Dr. Sean Barry)

Design **by Benjamin Sullivan**
Faculty Advisors: Wade Lough and Chris Register

Art **by McKenzie Johnson**
Faculty Advisor: Lauren Rice