



April 12-16





Jerry Falwell Library, Upper Atrium and Carter Learning Commons 8:30 a.m.-

Registration and Poster Setup 4 p.m.

11:45 a.m.-Jerry Falwell, Lower Atrium Welcome and Keynote Speaker 1 p.m.

(See page 4)

1–4 p.m. Jerry Falwell, Carter Learning Commons

> Poster Presentations (See pages 5-7 for list of presenters)

Oral Presentations

JFL Classrooms

(See pages 7-9 for list of presenters)

TUESDAY, APRIL 13

1-4 p.m.

10 a.m.-Jerry Falwell Library, Upper Atrium and Carter Learning Commons

Registration and Poster Setup 4 p.m.

1-4 p.m. Jerry Falwell, Carter Learning Commons

Poster Presentations

(See pages 10-11 for list of presenters)

IFL Classrooms 11 a.m.-Oral Presentations 4 p.m.

(See pages 12-14 for list of presenters)

WEDNESDAY, APRIL 14

10 a.m.-Jerry Falwell Library, Upper Atrium and Carter Learning Commons

4 p.m. Registration and Poster Setup

1-4 p.m. Jerry Falwell, Carter Learning Commons

Poster Presentations

(See pages 15-17 for list of presenters)

12-4 p.m. JFL Classrooms

Oral Presentations

(See pages 17-19 for list of presenters)

THURSDAY, APRIL 15

8:30 a.m.-Jerry Falwell Library, Upper Atrium and Carter Learning Commons

Registration and Poster Setup 10 p.m.

1–4 p.m. Jerry Falwell, Carter Learning Commons

Poster Presentations

(See pages 20-22 for list of presenters)

12-4 p.m. JFL Classrooms

Oral Presentations

(See pages 23-25 for list of presenters)

Center for Music and the Worship Arts, Concert Hall 3-4 p.m.

Performing Arts Presentations

(See page 25 for list of presenters)







































FRIDAY, APRIL 16

8:30 a.m.-4 p.m.

Registration

9 a.m.-12 p.m.

IFL Classrooms Oral Presentations

(See pages 26-27 for list of presenters)

12:30 p.m.

Three-Minute Thesis (3MT) Check-In

1-4 p.m.

Terrace Conference Room

Three-Minute Thesis Competition

(See pages 27-29 for list of presenters)

1-7 p.m. Poster Presentation Pickup

EVENT LOCATIONS:

Active Learning Classroom – JFL 171 Terrace Conference A – JFL 001A Terrace Conference B – JFL 001B Scholars Lounge – JFL 380

KEYNOTE SPEAKER DR. MARK HALL



Dr. Mark Hall is the Herbert Hoover Distinguished Professor of Politics and Faculty Fellow in the William Penn Honors Program at George Fox University. In addition, he is associated faculty at the Center for the Study of Law and Religion at Emory University and senior fellow at Baylor University's Institute for Studies of Religion.

Dr. Hall received a B.A. in political science From Wheaton College and a Ph.D. in political science From the University of Virginia. In addition to teaching politics and honors, he is director of the John Dickinson Forum for the Study of America's Founding Principles.

Dr. Hall's primary research and writing interests are American political theory and the relationship between religion and politics. He has written or co-edited twelve books and is a nationally recognized expert on religious freedom. In addition, he has also written more than 100 journal articles, book chapters, reviews, and sundry pieces. He writes for the online publications Law & Liberty and Intercollegiate Studies Review and has appeared on a number of radio shows, including Jerry Newcomb's Truth in Action, Tim Wildman's Today's Issues, the Janet Mefferd Show, and the Michael Medved Show.































1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Allison Blank, Laura Ziebart

Effective Learning Strategies and Use of Culture to Improve L2 Acquisition

> Faith Chudkowski

Has America Departed From the Founders Vision Out of Necessity or Greed?: A Historical Inspection of the Executive Branch

> Madelynn Hobson

Cold War America in the Fifth Dimension: How The Twilight Zone Exposed the Country's Hidden Fears

> Irene Hoisington

The Historic African American United Methodist Church - The Resilience of African American Religious Life in Antebellum Virginia

Grace Jennings

Identity Construction in the Work of Mario Benedetti

Jieli Kasprzak

Stretching the Limits of Language: Luis Palés Matos, Poetry, and Processes of Signification

> Holly Lawson

Analyzing the Past and Predicting the Future: 120 Years of Counseling Theories

> Renee Mann

Pediatric Concussion Management in the School Setting

> Lili Morgan et al, Michala Geraty, Michelle Salinas, Katherine Riley, Nicole

Abrahamsen

A Review of the Socio-Ecological Determinants of Maternal Mortality Among African American Women in the United States

Maggie Mynhier

The Sweet Efforts of Hershey's Chocolate Corporation During World War II

> Larisa Neilson

The Danish Exception: A Study of Human Equality During the Holocaust

> Amie Rapp

Effective Theories and Techniques for Counseling Clients From a Chinese Background

> Natalie Robinson

Black Kids and White Stories: The Fight for Representation in Children's Literature

> Renee Thiele, Abigail Coker, Aleah Schrock

Mezuzahs in New London: Jewish Culture and Influence in Central Virginia

MONDAY, APRIL 12

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Renee Thiele

Remembering World War II: An Analysis of British and American Portrayals of the War in Film and Television

> Hannah Wilson, Hunter Hogsed

Stories of the Slums: Poetry as Social Justice in The English Review

> Renata Yassa

Omega Z Diet

Jerry Falwell Library, Carter Learning Commons 1-4 p.m.

Remote Poster Session: Undergraduate and Graduate

> Mark Lawton

History Mysteries: An Exploration Into the Development of a Mystery at the Outset of the 1918 Spanish Flu in a New England Mill Town

> Julie Elms

The Human Touch of Relief Printing Aesthetics using Digital Tools

> Meredith Busch

Presbyterian Anticommunism: Opposition to Marxism and McCarthyism

> Stephanie Melo

Systemic Review of the Flipped Classroom: Effectiveness on Outcomes in Undergraduate Nursing Programs 2 p.m.

> Lora Mullen

Medically Unnecessary Female Genital Alteration: Implications for Healthcare Workers

2 p.m.

> Jennifer Leitinger

The Effect of Nursing Simulation on Clinical Decision-Making 2 p.m.

> Anna Haynes

Virtual Reality in Nursing Curriculum

3 p.m.















































1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Remote Poster Session: Undergraduate and Graduate

> Christi McGahan

Secondary Communication Crisis: Social Media News Information

> Frank Hernandez

Battlefield to the Civilian Workforce

> Kevan Keane

For Love of Liberty: An Intellectual Biography of John Adams

Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, 1-4 p.m. Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Dylan Ureno

Cialdini's Principles of Liking and the 2016 Presidential Election Terrace Conference Room A - 1 p.m.

> Gretchen Cline

Contemporary Monacan Nation Identity Expression: A Music and Cultural Arts Study

Terrace Conference Room B-1 p.m.

> Stacy Roberts

Executive Coaching and Its Impact to Women at Augusta University Active Learning Classroom - 1 p.m.

> Patricia Myers

Caregivers' Insights Concerning Visual Efficiency Skills of Their Child Diagnosed as a Fetus Exposed to Noxious Substances in Relation to Early Childhood Development Scholars Lounge - 1 p.m.

> Abigail Sanders

COVID-19's Impact on Higher Education Communication Terrace Conference Room A − 1:30 p.m.

> Nathanael Gentry

Reviving the Media Station: A Study in Reverse Engineering Terrace Conference Room B − 1:30 p.m.

Matt Ferdock

Four Factors for Millennial Failure: A Qualitative Study of YouTube Viewer Comments Active Learning Classroom - 1:30 p.m.

MONDAY, APRIL 12

1-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Daniel Wilson

From Waste to Power: Biosludge Atomization for Efficient Energy Conversion Scholars Lounge – 1:30 p.m.

> Gabriella Dunemann, Kristen Enns

Seroprevalence of SARS-CoV-2 Antibodies in a University Student Population Terrace Conference Room A - 2 p.m.

Terrace Conference Room B-2 p.m.

> Keri Truhe

Musical Competency Deficiencies in Beginning Band Students at a Charter School in North Carolina

Active Learning Classroom - 2 p.m.

> Victoria Truhe, Alexa Posa, Andrew ClInton, Hannah Mullins, Tessa Hansen Spirituality Among College Students With Physical Disabilities: A Phenomenology Terrace Conference Room A - 2:30 p.m.

> Olufunmilayo Abidemi Babrinde, Ewa Makowka

Social and Behavioral Risk Factors of Sexually Transmitted Infections in Community College and University Female Students

Terrace Conference Room B − 2:30 p.m

> Jasmik Parra Garcia

Improving Collaboration between Military Families and Special Education Faculty in Colorado Springs

Active Learning Classroom - 2:30 p.m.

> Mariannette Oyola-Perez

Avoiding Elitism in Collegiate Art Critiques

Scholars Lounge - 2:30 p.m.

> Ekaterina Batishcheva

Using Task-Based Language Teaching to Contextualize Culture and Improve Spelling for Arabic-Speaking English Language Learners

Terrace Conference Room A - 3 p.m.























































1-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Ewa Makowka, Jasmin Martinez

Analysis of BMI, Skinfold Measurements, and Exercise Heart Rate Against Average Steps of Gratiot Co. Youth From 2011-2015

Terrace Conference Room B-3 p.m.

> Katelynn Wheeler

Hispanic First-Generation College Student Perceptions of University Support

Active Learning Classroom - 3 p.m.

> Morgan Edmonds

Mitigating Depressive and Anxiety Symptoms With Healthier Dieting Scholars Lounge - 3 p.m.

> Camryn Kerr, Ashley Mavor, Sydney Bechtel

The Relationship Between Self-forgiveness and Apology

Terrace Conference Room A − 3:30 p.m.

> Brent Schuliger, Ashlyn Cowell, Nathan Waite, Paul Prentice, Reagan Nelson Cold Turkey: Will the Recent Freeze in Turkish-NATO Relations Spiral Into a Bigger Problem?

Terrace Conference Room B - 3:30 p.m.

> Gregory Shields

A Collective Case Study of Factors That Promote Academic Motivation Among High Performing, Economically Disadvantaged Middle School Students Active Learning Classroom – 3:30 p.m.

Alex Boggs

Recording the Skills of Studying the Past: A Case Study on Historical Thinking Skills Developed Through Student-Generated Video

Scholars Lounge - 3:30 p.m.

TUESDAY, APRIL 13

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Alexis Anello, Geneva Fleischer, Julia Hoopman

Genetic Analysis of an Isolated Population of the Peaks of Otter Salamander

> Luke Autrey, Chloe Rippey, Ellisa Gene Catahan

Toxicological Assay of Chemical Resistant Polymers With Zebra Fish Model

> Isaac Dotson, Amelia Wickham, Jessica Welty

Investigation of Individual Pesticide Toxicity in Relation to Î³-Glutamyl-Transferase Production

> Olivia Echols

Using Annexin V to Detect Apoptosis in Lung Cancer Cells

> Hannah Finson

pH Response Genes in Cryptococcus Neoformans

> Allyson Hardin

Investigating the Link between pH Regulation and Membrane Trafficking in Cryptococcus Neoformans

> Christina Hardin, Alexa Deckert, Kalie Nuss, Taylor Villani

Characterization of Peroxidases From Zucchini and Squash Skin and Their Potential Use in Bioremediation

> Zachariah Hutcheon, Jonathan Nelson, Mark Villers, Philip Temple

Synthesis of Some Rhenium-Pyridazyl Complexes for Future Use in Semiconductive Materials

> Hannah Kelley, Luke Ludwig, Mary Grace Blalack

Systematics of Desmognathus Monticola

> Grace Roe, So Jung Kim, Bailey Mims, Julianna Young

Design and Synthesis of Endocannabinoid Enzyme Inhibitors for Peripheral Selectivity

> So Jung Kim, Grace Roe

Novel Tandem Reaction to Synthesize Substituted Benzaldehydes

> Rachel Nas, Gabrielle Dampf, Jonathan Westlake, Neal McCaffrey, Pierce Knepley,

An Examination of the Effects of Bisphenol A and Bisphenol A Derivatives During Zebrafish Development

> Sydney Price, Sarah Sanborn, Tanyen Gibble

Peaks of Otter Salamander: Making an Uninhabitable House a Home

Mary Richfield

Titan Cell Formation in Nonpathogenic Yeasts Related to Cryptococcus neoformans







































TUESDAY, APRIL 13

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Myles Robison, Andrew Perry, Christi Fertich, Mason Wolk

Understanding the Chemical Mechanism Involved With a Peroxidase Enzyme Isolated From the Seeds of Multiple Pepper Species

> Rebeca Rodriguez, Dajeong Jung, Julia Humble, Levi Mailloux, Sarah Melton Glucose Regulation of the Paralogous Glucose Sensing Receptors Rgt2 and Snf3 of the Yeast Saccharomyces Cerevisiae

> Emmalyn Sarver

Incorporating The Origin of Life Theme in Organic Chemistry Laboratories: Analyses of Amino Acids

> Marissa Scilley, Anderson Hill

Improvement of the Undergraduate Organic Chemistry Laboratory Through the Greening of the Ferrocene Column Chromatography Experiment

> Richard Sirard, Simeon Standridge

Designing and Analyzing a Novel Fluorescent Cell Stain

> Christian Sorensen, Abigail Piddock, Alexandria Hannah, Ashley Warren,

Ashton Young, Cara Arrasmith, Connor Chapman

Investigating Antimicrobial Chemicals Released From Amphibian Eggs

> Joshua Sparks

Bioinformatic Importance of mafB in Mice

> Jessica Thornton, Bethany Smith, Brittany Johnson

Genomic Origins of Ancient Paracas Skulls: A Forensic Analysis

> Kyra Todd, Taylor Ferguson

Monitoring Physiological Health and Density of Plethodon Hubrichti Along an Elevational Gradient

> Lauren Western

The Effects of Rainfall on Presences of Giardia lamblia and Cryptosporidium in Local Water Sources

> Elizabeth Wymbs, Jenna Stuck, McKenzie Perkins, Olivia Beiler

Microbiome Characterization of the Cave Salamander as Potential Defense Against Emerging Infectious Diseases

> Feifan Xu

The Analysis of ZFP410 by Antibody Characterization and Co-immunoprecipitation

TUESDAY, APRIL 13

11 a.m.-4 p.m.

Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Thomas Parker

Research Study on Civilian Counselors Ability to Deal With Military Related PTSD Active Learning Classroom - 11 a.m.

› Natasha Varnick

Treatment of OCD in Children and Adolescents

Active Learning Classroom – 11:30 a.m.

> Solomon Willis

Improving Student Passing Rates in College Math Courses Active Learning Classroom – 12 p.m.

> E. Françoise Parr

Factors Contributing to the Well-being and Mental Health of Latino Youth Active Learning Classroom - 12:30 p.m.

> Madison Fogarty, Jessie Poole, Kennedy Luke, Natalie Dodd, Olivia Martin,

Sydney Morris

Environmental Graphic Design: Creating a Visual Identity for the School of Communication and the Arts

Terrace Conference Room A - 1 p.m.

> Miranda Boljat

Death and the Transformation of Women's Roles Surrounding Death: An Analysis of Jacques-Louis David's History Paintings

Terrace Conference Room B-1 p.m.

> Iennifer Gobble

The Role of Counselor Dispositions in Clinical Interviewing and Assessment Active Learning Classroom – 1 p.m.

> Wendy Watkins

Bedford Alum Springs Hotel Guests and Dress of the late 1800's Terrace Conference Room A − 1:30 p.m.

> Ariel Norris

Overt Symbols of Faith: 9/11 and the Muslim American Experience Terrace Conference Room B - 1:30 p.m.







































TUESDAY, APRIL 13

11 a.m.-Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B 4 p.m.

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Andrea Garraway

African American/Black Women Ces Doctoral Graduates Persistence Active Learning Classroom - 1:30 p.m.

> Carl Oelhaf

The Affects of Artificial Depressive Symptoms and the Mental Security of Victims of Information Overload

Scholars Lounge - 1:30 p.m.

> Samantha Pearce

The Bell Jar: An Investigation Into the Life and Style of Sylvia Plath Terrace Conference Room A - 2 p.m.

> James Knight

The Ruinous Northern Frontier: Roman-Hunnic International Engagements on the

Terrace Conference Room B-2 p.m.

> Katie Askren, Jeremy Bonta, Aleta Gibbs, Bridget Van Cook

Teaching Experiences: An Exploration of the Relationship Between Teaching Experiences of Doctoral Students in Counselor Education and Post-Graduate Job Opportunities

Active Learning Classroom - 2 p.m.

> Mary Ray

The Potential Positive Effects of Early Childhood Literacy Scholars Lounge - 2 p.m.

> Mattea Harrison

The Gilded Finch: An Exploration of Class Conflict Terrace Conference Room A − 2:30 p.m.

> Dalton Davis

The Return of a Judicial Artifact?: How the Supreme Court Could Examine the Question of the Nondelegation Doctrine's Place in Future Cases Terrace Conference Room B - 2:30 p.m.

> Harold Brackins

Middle School Students' Perceptions of Teacher Empathy in Christian Schools: A Transcendental Phenomenological Study

Active Learning Classroom - 2:30 p.m.

> Sarah Perkins

The Vote: Gender Identification in the Women's Suffrage Movement Through the Rhetoric of Carrie Chapman Catt

Scholars Lounge - 2:30 p.m.

TUESDAY, APRIL 13

11 a.m.-Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B 4 p.m.

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Kirsten Hoegh

The Relationship Between Doctoral Students' Self-Reported Type of Statistics Anxiety and Final Grades in an Online Statistics Course

Terrace Conference Room A - 3 p.m.

> Sara Williams

Chaim Potok, Chasidism, and Hybridity

Terrace Conference Room B-3 p.m.

Joseph Earp

First-Generation College Students' Lived Experiences in an Undergraduate Music Education Program: A Transcendental Phenomenological Study Active Learning Classroom - 3 p.m.

> Jana Hahn

Pain Into Purpose

Terrace Conference Room A - 3:30 p.m.

Shelby Mitchell

The Effects of Appalachia Lifestyle on Mental Health, Physical Illness, and Overall Well-being

Active Learning Classroom - 3:30 p.m.













































WEDNESDAY, APRIL 14

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Isabelle Ambrose

Hydrogen Combustion Engines in Fluid Dynamics

> Emma Anderson

The Relationship between KRAS and the Endoplasmic Reticulum-Mitochondrial Calcium Flux in Isogenic Colorectal Cancer Cell Lines

> Joseph Bierbaum, Lillianne Bartone, Mikaela Radka, Nicholas Swiader

The Cutaneous Microbiome of the Red-Spotted Newt and Its Role as Defense against **Fungal Pathogens**

> John Brewster

The G13D KRAS Mutation's Contribution to Structural and Functional Changes of the Endoplasmic Reticulum and Mitochondria in Colorectal Cancer Cells

> Megan Briceland, Thomas Kazmierczak

Mild to Moderate Concussions and Mental Health in Collegiate Athletes: Should Psychological Criteria Be Added to the NCAA Concussion Screening Tool?

> Connor Chapman, Jaden Seman, Kristen Enns

Amphibian Skin Pathogen Batrachochytrium Dendrobatidis Surveillance in Ecuador

> Rachel Craig

Impact of KRASG13D Mutation on Colorectal Cancer Cell Line HCT116 Organelle Structure, Function, and Growth

> Summer Hepler

Perinatal Bereavement and the Appalachian Culture of Southeastern West Virginia

> Summer Hepler

The Effects of Emotional Education on the Mental Health of Future Nurses

> Kathryn Jones, Lauren Hall

The Impact of Cochlear Implants on Educational Interpreting

> Sarah Mann

Polycystic Ovarian Syndrome and Insulin Resistance: An Evaluation of Treatment Modalities and Complication Prevention

> Catherine McElroy, Thomas Kazmierczak

Fully Protected: A Look at PPE and the Armor of God

WEDNESDAY, APRIL 14

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Alex Mishra

Defend America: Dominating the Skies and Protecting U.S. Troops From IEDs

> Kolton Musgrove

Machine Learning Models for Energy Consumption Prediction in Buildings

> Elijah Reeves

Using Sound and Heat Waves to Produce Contactless Phase Change

> Cameron Strowbridge

Viewpoints of Church Leadership on Signed Language Interpreters

> Elijah Yoder

Bombardier Beetle Fire Extinguisher

> Aaron Young

Development of UAVs and Propulsion Systems for Exploration on Other Planets

> Andres del Valle

How Much Mucus Do You Exhale?

Jerry Falwell Library, Carter Learning Commons 1-4 p.m.

Remote Poster Session: Undergraduate and Graduate

> Jessica Campbell

Improving Nurse Job Satisfaction to Improve Health Outcomes

> Robin Pearson-Boothe

Flipped Learning

1 p.m.

> Courtney Maffett

The Role of Social Media in Advancing Undergraduate Nursing Students' Education and Professional Identity

2 p.m.

Nicole Arnn

The Unexplored Areas for Treatment and the Psychological Challenges of Those With Low Sexual Arousal Disorder

2 p.m.

> Brooke Smith Mize

Mixed Orientation Marriages: Characteristics, Challenges, and Counseling







































WEDNESDAY, APRIL 14

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Remote Poster Session: Undergraduate and Graduate

> Joan Furlani

Post-Traumatic Growth and the Meaning-Making Process After Traumatic Bereavement: The Impact of a Spiritual Worldview 3 p.m.

> Brooke Smith Mize, Nicole Arnn

Out of My Body: Exploring Client Beliefs About Sacredness and Transcendence **During Sexual Activities**

3 p.m.

> Travis Maslen

The Value of Music Education for Children in Foster Care 3 p.m.

12-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Troy Richardson

The Achievement Gap for African American Students in Mathematics and the Importance of Traditional Family and Christian faith Active Learning Classroom – 12 p.m.

> Alicia Gouge

Sending Out an SOS: Professional School Counselor Identity Formation and Practice Active Learning Classroom – 12:30 p.m.

> Katrina Muller, Marie Mallory

Follow the Leader: Rhetorical Analysis of Adolf Hitler's Speeches Terrace Conference Room A - 1 p.m.

> Ioshua White

Founding Father, Loyal Subject: How John Joachim Zubly Fought for Liberty and Chose Loyalty

Terrace Conference Room B-1 p.m.

> Cathleen Beachboard

Why Hope Matters: Fostering Resilience, Well-being, and Success in Students Active Learning Classroom - 1 p.m.

WEDNESDAY, APRIL 14

12-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge,

Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Zachary Sechler

Adolf Hitler's Religious Beliefs

Scholars Lounge - 1 p.m.

> Grace Mallory

Saying Hello to Biden: A Rhetorical Analysis of President Joe Biden's Inaugural Address

Terrace Conference Room A – 1:30 p.m.

> Weon Deok Seo

Bridging the Cultural Gap Between First and Second Generation of Korean Americans in the Church

Terrace Conference Room B − 1:30 p.m.

> Sheri Cobarruvias

Human Growth and Development: Women's Physical, Mental, and Spiritual Health in Mid-Life

Active Learning Classroom - 1:30 p.m.

> Tanesha Higgins

The Alienation of W.E.B. Du Bois: How the Cold War Ostracized the Scholar From American Society

Scholars Lounge – 1:30 p.m.

> Charity Bullis

The Origin & Evolution of the Chinese Language

Terrace Conference Room A − 2 p.m.

> Joshua Bird

Isolation, Effects and Characterization of a Peripheral Tissue Injury Extract Causing Endothelial Cell Dysfunction, Ileus, and a Precipitous Death

Terrace Conference Room B-2 p.m.

> Emily James

Barnabas: The Forgotten Apostle

Active Learning Classroom - 2 p.m.

> Gabriel Hooper, Mark Fischer

Resistance of the Freshwater Microbiome to a Combination of Pesticides Scholars Lounge – 2 p.m.

> Renee Thiele

Remembering World War II: An Analysis of British and American Portrayals of the War in Film and Television

Terrace Conference Room A - 2:30 p.m.

















































WEDNESDAY, APRIL 14

12-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

→ Kathryn Briley

Pueraria Montana Peroxidase Activity

Terrace Conference Room B − 2:30 p.m.

> Kevan Keane

A Protestant Overthrow: The Glorious Revolution and Its Effects in Colonial America Active Learning Classroom - 2:30 p.m.

> Mark Fischer, Gabriel Hooper

Microbial Assemblages in Relation to Host and Environmental Surroundings Scholars Lounge – 2:30 p.m.

Andrew Hilty

Such a Spirit of Inoculation: The American Founders and Vaccination, 1720-1820 Terrace Conference Room A - 3 p.m.

> Emma Mohler

Casein Kinases Regulate Stability of the Glucose Sensing Receptor Rgt2 in Yeast Terrace Conference Room B - 3 p.m.

> Ronald Piccirilli

Fire and Fury: The Defense of Civil War Permanent Fortifications Active Learning Classroom - 3 p.m.

> Miranda Sheridan

The Cutaneous Microbiomes of Appalachian Salamanders and Their Role as an Innate Defense Against the Pathogen Batrachochytrium Dendrobatidis Scholars Lounge - 3 p.m.

> Aleah Schrock

Wide Awake: Mennonite Support of Naziism in the Third Reich

Terrace Conference Room A − 3:30 p.m.

> Cara Arrasmith, Jonathan Tenerovich

Identification of Hepatopancreatic Parasites Afflicting Crayfish and Associated Snails in Local Virginia Streams

Terrace Conference Room B - 3:30 p.m.

> Shannon Pugh, Phyllis Ferrier, Victoria Evans

Emerging Adults and Parental Co-Residence: A Cultural Perspective Active Learning Classroom – 3:30 p.m.

> Kristen Enns

The Characterization of the Microbiome for the Northern Two-Lined Salamander (Eurycea Bislineata) and Its Ecological Interactions With the Pathogen Batrachochytrium Dendrobatidis

Scholars Lounge - 3:30 p.m.

THURSDAY, APRIL 15

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Olufunmilayo Babarinde Abidemi, Ewa Makowka

Social and Behavioral Risk Factors of Sexually Transmitted Infections in Community College and University Female Students

> Rachel Drake

Potential Connections Between Graph Theory and Materials Modeling

> Carson Farmer

Drones and Spatial Artificial Intelligence for Improving Crop Yield

> Virginia Ferguson, Cheyenne French, Kinsey Painter

The Effects of Video Priming on Forgiveness

> Tate Fonville

Design of Player Specific American Football Helmets to Protect the Brain

> Blake Fraser, Abigail Taber, Elizabeth Moffitt, Hayden Goff, Jessica Eason,

Rachel Goodall

An Analysis of Loneliness and Contributing Factors Among College Students

› Iacob Gachowski

Acute Traumatic Navicular Fracture – A Rare Case Study

> Nathanael Gentry, Carson Farmer

Preliminary Results on the Use of Machine Learning for Advance Controls of a Dielectric Elastomer Actuator

> Carolyn Haase

Testing Dielectric Elastomers in Uniaxial Tension

> Stephanie Haynsworth

Educators on the Move: An Applied Study of Literature-Based Solutions for Teacher Migration Within an Exclusive Urban School

> Courtney Herm

Using Pulsed Shortwave Diathermy and Joint Mobilizations to Treat Shoulder Adhesive Capsulitis

> James Kegley

Pre-Tendonitis & Bursitis of the Psoas in a Division I Field Hockey Player

> Daniel Kenney, Jared Darius

Anti-Roll Bar Fatigue Analysis and Redesign

> Cortney Kinder, Robert Bonser

8-Week Post-Operative Rehabilitation for a Collegiate Baseball Pitcher With UCL

















































THURSDAY, APRIL 15

1-4 p.m. Jerry Falwell Library, Carter Learning Commons

Residential Poster Session: Undergraduate and Graduate

> Benjamin Klipp, Brady Flynn, Christian Conroy, Manasseh Suranofsky, Timothy

Analyzing Various Factors of the Tour de France: How Performance Has Evolved Over the Past Century

> Isaac Liu

Observations on the Use of Chemical Treatment for the Modification of Dielectric Elastomer's Mechanical Properties: A Work in Progress

> Joshua McKinnis

Modeling a Spectrum of Positive Music on the Circumplex Theory of Emotion

> Holly Monson, Caleb Schaible, Gabriel Weiss

Confocal Laser Microscopy on Acid-Etched Titanium Surfaces and Roughness Measurements

> Reid Prichard

Modeling a Novel Method to Diminish COVID-19 Transmission in a Hospital Room

> Marissa Scilley

Raising Global Awareness and Internationality in the Undergraduate Organic Chemistry Laboratory

> Joshua Smith

Techniques for Treating Achilles Tendinopathy in a Lacrosse Player: A Case Study

> Jessica Stephenson, Robert Bonser

The Effects of Glute Strengthening and Hip Mobility on Patellar Tendonitis: A Case Study

> Aleck Tilbrook, Greta Wilkins, Joshua Ingram

Smart Pacifier for Measuring Infant Bite Force

> Eric Turman

Simulating Chemical Reactors to Reduce Shutdowns Due to Overheating

> Arianna Verbosky

Determining the Effect of Embedding Sensors in the Hosting Composite's Mechanical **Properties**

> Jaden Williams

Treating Achilles Tendinitis in A College Basketball Player: A Case Study

> Daniel Wilson

From Waste to Power: Biosludge Atomization for Efficient Energy Conversion

> Jessica Windsor

Emergency Management: A Case Study of Special Needs Populations and Disaster Preparedness

THURSDAY, APRIL 15

1-3 p.m. Jerry Falwell Library, Carter Learning Commons

Remote Poster Session: Undergraduate and Graduate

> Rachel Hernandez

#GENERATION Z: A Phenomenological Study Exploring the Experiences of Elementary Title I Teachers' Use of Educational Technology in the 21st Century Classroom

1 p.m.

> Konova Cornelius

A Phenomenological Study of the Factors that Motivated Black Students' Enrollment in AP Courses

1 p.m.

> Katelynn Wheeler

Hispanic First-Generation College Student Perceptions of University Support Programs

1 p.m.

> Gregory Shields

A Collective Case Study of Factors That Promote Academic Motivation Among High-Performing, Economically Disadvantaged Middle School Students 2 p.m.

> Charelton King

Biblical Worldview Development While Learning Origins Science 2 p.m.

> Patricia Scalf

Preschoolers, Emergent Literacy, and Technology















































THURSDAY, APRIL 15

12-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

→ Mark Lawton

History Mysteries: An Exploration Into the Development of a Mystery at the Outset of the 1918 Spanish Flu in a New England Mill Town

Active Learning Classroom – 12 p.m.

> Hugo Albergaria

The Resurgence of Republicanism With Civic Humanism: The Contributions of Leonardo Bruni

Active Learning Classroom - 12:30 p.m.

> Madeline McCoy, Chloe Rippey, James Davis

Inhibiting Nitroso Related Methylation of Guanine Using Dietary Supplements and Flavonoids

Terrace Conference Room A - 1 p.m.

> Emma Jackson

The Multiple Meanings of Rock Music During the Vietnam War

Terrace Conference Room B − 1 p.m.

> Frank Hernandez

Battlefield to the Civilian Workforce

Active Learning Classroom – 1 p.m.

> Lindsay Vanderwey

Freedom on the Airwaves: American and Hungarian Radio Broadcasts in the Revolution of 1956

Scholars Lounge – 1 p.m.

> Alicia Loucks, James Davis

Synthesis of a Material for the Sensitive and Selective Sorption of Perfluorooctanoic Acid

Terrace Conference Room A - 1:30 p.m.

> Brayden Lilge

The Representative Individual

Terrace Conference Room B - 1:30 p.m.

> Sherene Khouri

The Islamic Misunderstanding of the Trinity: A Historical Investigation Active Learning Classroom - 1:30 p.m.

> Robert Stroud

Tom Clancy and the Real Fiction of the Cold War (1984-1991)

Scholars Lounge - 1:30 p.m.

THURSDAY, APRIL 15

Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, 12-4 p.m. Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Timothy Brophy

A Comparative Analysis of 20th Century Short Stories in "Everybody's Magazine" Terrace Conference Room B - 2 p.m.

> Natalie Shimo

Come as You Are: Actively Welcoming and Involving Individuals With Special Needs

Active Learning Classroom - 2 p.m.

> Zane Richer

Orienting Sphere Sovereignty: The Synthesis of Kuyperian and Augustinian Theories as a Solvent for Modern Social Tensions

Scholars Lounge – 2 p.m.

> Anna Alden

A Deeper Look at the Literacy Achievement Gap

Terrace Conference Room A - 2:30 p.m.

> Lillianna Wright

The Greatest Poet in Ireland: Yeat's Changing Perspective on the Sacred Role of Poet *Terrace Conference Room B* − 2:30 p.m.

> Anna Boydstun

Modern Classical Christian Education: A Return to the Founders Education Active Learning Classroom - 2:30 p.m.

> Sarah Lemley

The Governor's Palace – Architecture and Interiors: The Significance of Historic Preservation & Reconstruction for the Next Generation Scholars Lounge - 2:30 p.m.

> Abigail Chu

Aristotle's Virtue Ethics and the Nurse's Role

Terrace Conference Room A - 3 p.m.

> Stephanie Wright

A Tactical Victory at Sevastopol: How the German's Use of Combined Arms and Heavy Artillery Overcame the Most Fortified City in Europe

Terrace Conference Room B-3 p.m.

> Charleton King

Biblical Worldview Development While Learning Origins Science Active Learning Classroom – 3 p.m.





















































THURSDAY, APRIL 15

12-4 p.m. Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Frances Watson

Reminiscent of Revivalism: Three Evangelical Anglican Clergymen in Eighteenth-Century Virginia Scholars Lounge - 3 p.m.

> Eunice Nogueras-Negron

A Middle School Choral Methodology and Curriculum Pairing: An Introduction Terrace Conference Room A − 3:30 p.m.

> Sadie Barham

More Than Misogyny: The Role of Women in the Ramayana Terrace Conference Room B - 3:30 p.m.

> Rachel Hernandez

Generaztion Z: A Phenomenological Study Exploring the Experiences of Elementary Title I Teachers' Use of Educational Technology in the 21st Century Classroom Active Learning Classroom - 3:30 p.m.

3-4 p.m.

Tsars, Soviets, and Saints: A Historical and Geographic Examination of the Physical Distribution of Protestants in Russia Scholars Lounge - 3:30 p.m.

Center for Music and the Worship Arts, Concert Hall

Performing Arts Presentations

> Hope Dornfeld

Traveling to the Promised Land: Symbolism of the Jordan River in African Spiritual, English Hymn, and American Folksong Selections

FRIDAY, APRIL 16

9 a.m.-Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B 12 p.m.

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Johanna Dillenbeck, Kimberly Spellman

Supporting Marginalized Doctoral Counselor Educators: Social Justice Imperative Active Learning Classroom - 9 a.m.

> Garrett Johnson

Desire and Beauty: Ancient Philosophy Molding Modern Cinema in Vertigo Scholars Lounge - 9 a.m.

> Meagan Plass

CTE Learning Outcomes, Pathways, and Programs Active Learning Classroom – 9:30 a.m.

> Joseph Carson

Augustine's Virtue Epistemology Scholars Lounge - 9:30 a.m.

> Bianca Kristal Sofia Contreras Lopez

A Biblical Response to Workplace Sexual Harassment by Addressing Culture and Leadership Inside an Organization: An HR Perspective Terrace Conference Room B - 10 a.m.

> Konova Cornelius

A Phenomenological Study of the Factors That Motivated Black Students' Enrollment in AP Courses

Active Learning Classroom - 10 a.m.

> Kaitlyn Kenney

A Conservative Prophet?: Edmund Burke's Predictions and Legacy Surrounding the French Revolution and Modern Politics Scholars Lounge – 10 a.m.

> Ashley Dawson

The Perceived Differences in Employee Engagement Through Multiple Generations in the Workplace: An HR Perspective

Terrace Conference Room B - 10:30 a.m.

> Jesse Mathis

Animal-Assisted Therapy: Adjunct Therapy for Victims of Human Trafficking Active Learning Classroom – 10:30 a.m.

> Faith Chudkowski

Has America Departed From the Founders' Vision Out of Necessity or Greed?: A Historical Inspection of the Executive Branch

Scholars Lounge - 10:30 a.m.

























































FRIDAY, APRIL 16

9 a.m.-Jerry Falwell Library, Active Learning Classroom, Scholars Lounge, Terrace Conference Room A/B 12 p.m.

Oral Presentations

Residential and Online: Undergraduate and Graduate

> Tehta Reeves

The Hidden Illness: You Never Know When They Will Strike

Terrace Conference Room B - 11 a.m.

> William Crawford

Locus of Control and Support for or Opposition to Concealed Carry on Campus: A Correlational Study

Active Learning Classroom - 11 a.m.

> Katherine Deturk

The Rise of Liberalism Among the American Youth

Scholars Lounge - 11 a.m.

› Jacqueline Hale

One God?: A Documentary Treatment Exploring the Protestant and Catholic Divide Terrace Conference Room B - 11:30 a.m.

> Bridger Falkenstien, Brian Paulson, Jody Vernam

Developing Peer Mentorship in Counselor Education: A Literature Review Active Learning Classroom – 11:30 a.m.

Jerry Falwell Library, Terrace Conference Room 1-4 p.m.

3MT Competition

Three-Minute Thesis (3MT®) celebrates the exciting research conducted by Ph.D. students around the world. Developed by The University of Queensland (UQ), the competition cultivates students' academic, presentation, and research communication skills. Presenting in a 3MT competition increases their capacity to effectively explain their research in three minutes, in a language appropriate to a nonspecialist audience.

This will be an opportunity for Liberty's bachelor's, master's, and doctoral students to concisely summarize and clearly communicate a well-conceived thesis/dissertation project, compelling data collected, and a novel story that represents their research. This year's participants are listed below:

- > <u>Undergraduate</u>
- > Nicholas Veeder

Implementing Gasification of Organic Matter in Developing Countries

> Hayley Yukihiro

Groundbreaking Self-Breathing Ventilator Investigation

FRIDAY, APRIL 16

1-4 p.m. Jerry Falwell Library, Terrace Conference Room

3MT Competition

> Graduate

> Gretchen Cline

Contemporary Monacan Nation Identity Expression: A Music and Cultural Arts Study

> Jared Darius

Integrating Temperature Dependence Into a Microstructure-Sensitive Fatigue Model for Titanium Alloys

> Tate Fonville

Design of Player Specific American Football Helmets to Protect the Brain

Predicting the Cyclic Behavior and Fatigue Failure of Magnesium Alloys Through Modeling Twinning and Grain Recrystallization

> Bridget Lewis

What's in a Name: Influence of Sports Team Name Changes on Pros, Fans, & Related **Parties**

Olivia Martin

Visualizing a Woman's Journey Through the Old Testament Prophetic Books: Improving Female Study Methods Through Visual Supplementation

> Bethany Matsick

Preliminary Analysis for a Campuswide Energy Prediction Strategy at Liberty University

> Patricia Myers

Caregivers' Insights Concerning Visual Efficiency Skills of Their Child Diagnosed as a Fetus Exposed to Noxious Substances in Relation to Early Childhood Development

> Sandra Dena Noble

Embodied Healing: The Creative Arts Personal Growth Group for Eating Disorder Recovery (CAPG-E)

> Levy Pait

Venerated for Their Bloody Deeds: World War I Aviation and Chivalry

> Reid Prichard

Modeling a Novel Method to Diminish COVID-19 Transmission in a Hospital Room

> Seth Pryor

Toward a Model of Old Testament Cultural Engagement: Overlooked Elements

Capturing the Digital Dollar: How Religious Nonprofits Are Adopting Social Media Strategies for Adoption, Engagement, and Community

> Abigail Sanders

COVID-19's Impact on Higher Education Communication











































FRIDAY, APRIL 16

1-4 p.m. Jerry Falwell Library, Terrace Conference Room

3MT Competition

> Weon Deok Seo

Bridging the Cultural Gap Between First and Second Generation of Korean Americans in the Church

> Eric Turman

Developing Smart Simulations for Computational Fluid Dynamics Studies

Evangelical Beyond the Character of the Times: Three Revivalist Anglican Clergymen in Eighteenth-Century Virginia

> Daniel Wilson

From Waste to Power: Biosludge Atomization for Efficient Energy Conversion

> Caitlyn Ybarra

The Lack of Mentorship Among Black Women Faculty at Predominately White Institutions

JURIED ARTS

The following students submitted Juried Arts pieces for Research Week. If you would like to participate in the Juried Arts "People's Choice" awards, view the winners and instructions on how to vote on the big screens in IFL or DeMoss.

> Pierre Adetola Yohann Oluwatobi

Fashion Show 2K19

> Mathieu Angell

Redefine Kids Online

> Laura Bialecka

The Family Farm

> Ana D'Ettorre

Celebrating Diversity

> Tammy Edens

What Do You See?

> Hali Gehring

Tentmakers Coffee Market Branding

> Hali Gehring

Promise Keeper Vase

> Rainier Gleich

Cinderella Pattern Collection

> Rainier Gleich

C.S. Lewis House Sculpted Cake

> Rainier Gleich

Highland Creamery Brand Identity

> Rainier Gleich

Seeking the Kingdom: A Series of Drawings

> Rainier Gleich

Robotic Paper Unicorn

> Brett Havard

My Wife's Shirt On A Chair

> Mary Horton

Using Graphic Design to Create Packaging for Myers-Briggs Personality Candles





































JURIED ARTS

The following students submitted Juried Arts pieces for Research Week. If you would like to participate in the Juried Arts "People's Choice" awards, view the winners and instructions on how to vote on the big screens in IFL or DeMoss.

- > Rachel Hughes Archie Concept Art (Creature Design)
- > Rachel Hughes Archie Sculpture (Creature Design)
- > Rachel Hughes Doc Ock
- > Rachel Hughes Princeton Sculpture (Creature Design)
- > Joshua Jacobson Loco-Robo and Gen
- > Sara Elizabeth McNeal A Part of Me
- > Isabella Scarborough The Flower Man
- > Abigail Walters Wave Tunes

RECOGNITION OF JUDGES

We would like to extend a special thank you to all of our faculty judges. The success of this event would not be possible Without your willingness to volunteer your time to our students.

- > Shanna Akers
- > Alexandra Barnett
- > Stephen Bell
- > Shawn Bielicki
- > Tammy Brown
- > Jamaica Conner
- > Donna Donald
- > Robert Van Engen
- > Ben Forrest
- > Lisa Foster
- > Brianne Friberg
- > Marilyn Gadomski
- > Michael Gibson
- > Cory Goff
- > Cindy Goodrich
- > Kelly Hamren
- Scott Hayes
- > Stephen Hobson
- > Jared Hornsby
- > Melanie Hudson
- > Rachel Joseph
- > Young-Man Kim
- > Martin Klauber
- > Kenyan Knapp
- > Emily Knowles
- > Matthew Lazenka
- > Chansoon Lee
- > Edward Martin

- > Stephen Mason
- > Mitch Morrison
- > Lawerence Presley
- > Michael Price
- > Nancy Richardson
- > Carey Roberts
- > Jillian Ross
- > Anita Satterlee
- > Cynthia Schmidt
- > Diana Schwerha
- > Scott Severance
- > Samuel Smith
- > David Snead
- > Christopher Sneeringer
- > Lucinda Spaulding
- > Kevin Struble
- > Robert Talley
- > Ashley Tharpe
- > Matthew Towles
- > Sean Turchin
- > Tracey Turner
- > Emily Underwood
- > Nathan Valle
- > Brian Walsh
- → Joshua Waltman
- > Lew Weider
- > Joshua Wilson
- > Yan Xie
- > Timothy Yonts

















































RESEARCH WEEK ADVISORY BOARD

The Center for Research & Scholarship would like to express special appreciation to the faculty and student members of the Research Week Advisory Board. The expertise of this board guides the application processes, judging criteria and rubrics, and the presentation guidelines to ensure that Research Week is a successful event each year that aligns With the mission of CRS to champion research and scholarship at Liberty University.

- > Dr. Matthew Becker
- > Dr. Benjamin Forrest
- > Ms. Roriebeth Fredrich
- > Dr. Michael Gibson
- > Ms. Matalie Howard
- > Mr. Aaron Malbuff
- > Dr. Carl Pettiford
- > Dr. Jonathan Philebaum
- > Dr. Carey Roberts
- > Dr. Paul Rumrill
- > Mr. Todd Smith
- > Mr. Joshua Waltman
- > Dr. Darren Wu

RESEARCH WEEK TASK FORCE

- > Alexis Buege
- > Kaya Cassell
- > Matthew DeSantis
- > Dr. Ben Forrest
- > Roriebeth Fredrich
- > Dr. Melanie Hudson
- > Aaron Malbuff
- > Dr. Jonathan Philebaum
- > Dr. Paul Rumrill
- > Todd Smith
- > Josh Waltman
- > Dr. Ester Warren
- > Jenny Wilen
- > Ben Williamson
- > Dr. Darren Wu















































Passport

Air Pods Giveaway!
Free T-sbirt!

Attend any 4 different types of Research Week events and be entered to win a pair of AirPods! Also, the first 100 students to submit their entry will get a free Research Week 2021 T-shirt!

Choose 4 to enter:

- 1) Keynote Address, Monday, April 12, 2021, 11:45 a.m. refreshments served! Ask for sticker at check-in table.

 2) Poster Presentations, Monday-Thursday, 1-4 p.m. Ask for sticker at the main registration table.
 - 3) Oral Presentations, Monday-Friday, 1-4 p.m., see schedule for details. Ask for sticker at check-in table.
 - 4) Performing Arts Presentation, Thursday, 3:00 p.m. Ask for sticker at check-in table.
 - 5) 3-Minute Thesis Competition, Friday, 2:00 p.m. Ask for sticker at check-in table.

Place your sticker in the correct place below and return to the main registration table in JFL to collect your T-shirt and to be entered to win the AirPods!



HOW TO VOTE for JURIED ARTS PEOPLE'S CHOICE AWARD

Vote in the People's Choice Juried Art Competition! Go to Facebook.com/LibertyULibrary, and like your favorite piece in the Research Week Juried Art photo album. Voting ends on Friday, April 16, at 4:00 p.m., so cast your vote today!

LU

















NAME: _______ @liberty.edu