

Maning at Luther Many Color

MAY 3, 2024

LUTHER COLLEGE

To the Luther Community:

Welcome to the Learning at Luther Showcase at Luther College, a highlight of our academic year! At Luther, we value learning in community so we set aside a day, canceling our regularly scheduled classes so the entire community can learn from and with our students as they share the results of their discoveries, reflections, and creativity from this academic year.

The day's events feature the outstanding work of many of our talented, curious, and accomplished students. Within the Showcase schedule, you will find sessions of talks by Luther students representing majors across the college. You'll notice both disciplinary and interdisciplinary sessions, each providing an exciting opportunity to engage in dialogue about significant issues in our world. There are sessions featuring research papers from our common first year course, Paideia 112 and other sessions featuring capstone senior projects.

Following the first session, the entire community is invited to gather in the center of campus at Preus Library to continue conversations and celebrate being in community. The program features two poster sessions, which will showcase a wide range of impressive work and complex learning done by Luther students under the skillful guidance of our faculty. We highlight student curated exhibits and performances that can be experienced as part of this year's Showcase.

Session topics and project titles can be found within this program. You can explore presentation details including abstracts and presentation previews in our <u>virtual program</u>.

On behalf of Luther College, we offer our sincere congratulations to all the scholars presenting at this year's Showcase. What you will see and hear is the culmination of long hours of thought, experimentation, practice, and vision. We lift-up and appreciate this hard work and each students' willingness to share their results and reflections with our community. Each is an important part of the Luther story.

We are delighted that you have joined us to see and celebrate our students' achievements and hope this day inspires you, as we are always learning.

Sincerely,

Molly Wilker Director of

Undergraduate Research

Molly 3 Wilken

Robin Currey
Associate Provost
Dean of Academic Affairs

Brad Chamberlain

Bradley M. Chambaloun

Provost

2024 LEARNING AT LUTHER SHOWCASE DAY-AT-A-GLANCE

SESSION I: 9:00 A.M10:15 A.M.					
CFL Recital Hall	Olin 102	Mott-Borlaug	Jenson Choir Room	Valders 349	
Paideia 112: Representation and Misrepresentation	Considering Consumer Experiences	Iowa Wildlife Populations	Stress, Spirituality and Medicine	Lightning Roundtable A	

COMMUNITY GATHERING: 10:15 A.M.- 10:45 A.M.

Preus Library front entrance with refreshments and an interactive display for sharing and celebrating student projects.

SESSION II: 10:45 A.M NOON					
CFL Recital Hall	Mott-Borlaug	Valders 206	Jenson Choir Room	Valders 349	Preus Library, main floor
Paideia 112: The 1960s	Influencing Surroundings	Paideia 112: The Struggle for Rights	Reflecting Cultures in Music	Lightning Roundtable B	POSTER SESSION A

LUNCH BREAK: NOON-1:00 P.M.

SESSION III: 1:00 P.M. – 2:15 P.M.						
CFL Recital Hall	Olin 102	Hovde Room	Mott-Borlaug	Valders 206	Jenson Choir Room	Valders 349
Words that Inspire	Organization and Optimization	Connecting with Natural Resources	Altering Animal Behavior and Development	Paideia 112: Just and Unjust Policy	Exploring Musical Structures and Traditions	Lightning Roundtable C

SESSION IV: 2:30 P.M. – 3:45 P.M.				
CFL Recital Hall	Olin 102	Hovde Room	Sampson Hoffland Laboratories Carlson Atrium/Valders Hall of Science Concourse	
Paideia 112: Humanity, Technology, and Nature	Lightning Roundtable D	Healthcare and Human Rights	POSTER SESSION B	

EXHIBITS AND EVENTS:

The Art of the Kohler Foundation, Union Art Gallery

Soul of Soil: CFA Jewel Theatre, 7:30 PM

Spring Opera Performance: Cendrillon (Cinderella), CFL, 7:30 PM

A special thank you to those who assisted with organizing this year's event including:

Emily Mineart, Michelle Einck, Liz Clement, Olivia Gustafson, Jesse Winter, Eddy Atwell, Julie Strom, Stephanie Travers, Alexandra White, Elizabeth Steding, LaDonna McGohan, and Bethany Shroyer

SESSION I: 9:00 -10:15 A.M.

Center for Faith and Life Recital Hall **Paideia 112: Representation and Misrepresentation**

Moderator: Jonathan Struve

1.Dolchstoß

Alexandra Tiernan Mentor: Jonathon Struve

2. The Lingering Echoes of Anti-Japanese Propaganda in Post-Pearl Harbor America

Grace Ibs

Mentor: Mike Garcia

3.A History Found Again: The Poetry of Angel Island

Lilly Riedel

Mentor: Kathy Reed

4. Antón: An Anomaly in "También la Lluvia"

Eleanor Brown

Mentor: Andrew Hageman

Olin 102 Considering Consumer Experiences

Moderator: Alexandra White

1.Luther College ID Mobile Application

Samuel Vue, Reece Flynn, Phat Tu

Mentor: Paul Mattson

2. Using Machine Learning to Predict the Cost of Custom Zinc Parts Based on Limited Information.

Malachi Thompson Mentor: Thuy Do

3.VR technology and Marketing

Taylan Emre, Jibran Khan Mentor: Hongxiao Yu

Jenson Choir Room **Stress, Spirituality and Medicine**

Moderator: Brian Hiester

1. Humanistic Healthcare: Perspective from Tzu Chi Hospitals

Duong Truong

Mentor: Gereon Kopf

2."Do I wake or sleep?" - Mourning, Ministry, and Remembrance Across the AIDS Crisis

Marshall Laidlaw
Mentor: Gereon Kopf

3.Investigation of the effects of oxidative stress on MMP and TIMP expression in Caenorhabditis elegans

Avery Wrage

Mentor: Brian Hiester

4.An Internship in General Dentistry

Mike Benoit

Mentor: Jodi Enos-Berlage

Mott-Borlaug **Iowa Wildlife Populations**

Moderator: Kirk Larsen

1. Pollinator use of two native prairie flowers and their nativars in Northeastern Iowa.

Rory Wisgerhof Mentor: Kirk Larsen

2. Seasonality may affect wild turkey offspring sex-ratios in Iowa

Ellie Shuros

Mentor: Dr. Dawn Reding

3.Bees of Planted Prairies and Landscaped Flower Beds on the Luther College Campus

Emmelyn Cullen Mentor: Kirk Larsen

4. Using 2bRAD sequencing to study fine-scale population structure in Gray Fox

Adam Koller

Mentor: Dawn Reding

Valders 349

Lightning Roundtable A

Moderator: Thomas Johnson

1. Color of Change: Phillis Wheatley, bell hooks, Ibram X. Kendi

Ryan Malecha

Mentor: Novian Whitsitt

2. The Imposition and Effects of US Sanctions on South Africa

Zach Cummer

Mentor: Martin Klammer

3. The Liberal Ideological Shifts of the Warren Court Landmark Cases

Sydney Obaseki

Mentor: Novian Whitsitt

4. Woza Albert!: an Ode to the Soul of the Black South African Anti-Apartheid Movement

Karlton Anderson

Mentor: Martin Klammer

5.A History of Defamation in American Law

Micah Anderson Mentor: Amy Weldon

COMMUNITY GATHERING: 10:15 A.M.- 10:45 A.M.

Preus Library front entrance with refreshments and an interactive display

SESSION II: 10:45 A.M. - 12:00 P.M.

Center for Faith and Life Recital Hall
Paideia 112: The 1960s
Moderator: Marie Drews

1. Memorials, Movies, and Music: How We Remember the Vietnam War

Mira Melander Mentor: Mark Guerci

2.Breaking and Defining Barriers: Mapping the Seafloor During the Cold War Era

Rachel Borchardt Mentor: Todd Pedlar

3.Life Magazine and the Vietnam War: Before and After the Tet Offensive

Le Thi Thanh Binh Mentor: Marie Drews

4.Divergent Black Perspectives on the Birth Control Pill in the 1960s.

Rejoice Mzumara

Mentor: Novian Whitsitt

Mott-Borlaug Influencing Surroundings

Moderator: Michelle Boike

1. Reclaiming Student Voice

Jasmine Elliott
Mentor: Char Kunkel

2. The Intersections and Interconnectedness of Grief, Soil, and the Body

Sloan Clemens

Mentor: Jane Hawley and Char Kunkel

3. The Impact of Racial Identity on Student Life at Luther College

Nia Whitsitt

Mentor: Char Kunkel

4.Exploratory Investigation of the Role & Presence of Queerness in Urban Planning & Development

Matilda Koeller Mentor: Char Kunkel

Valders 206

Paideia 112: The Struggle for Rights

Moderator: Martin Klammer

1. Crossing the Street: How Beyers Naudé Challenged the Power of His Former Community

Wil Quinn

Mentor: Martin Klammer

2.Gender Bias in Health: When Asian Females' Voices Become Inaudible

Hazel Tran

Mentor: David Thompson

3. Changes of Women in the Weimar Republic

Emily Ostermann

Mentor: Jonathon Struve

4.A Solitary Stand: Helen Suzman's Lifelong Crusade for Human Rights

Julianne Lundvall

Mentor: Martin Klammer

Jenson Choir Room Reflecting Cultures in Music

Moderator: Alex Meszler

1.Looking to the Future: The Social Responsibility of Professional Symphony Orchestras to Engage with New and Diverse Audiences

Malachi Rettmann Mentor: Brooke Joyce

2.Musical Exoticism, an Exploration of the Gustav Holst and Louis Moreau Gottschalk

Hannah Kerchner Mentor: Melanie Batoff

Valders 349 **Lightning Roundtable B**

Moderator: Jon Jensen

1. The Glorious Intersection of Music and Climate!

Ombeni Goss

Mentor: Richard Mtisi

2. Revolutionizing Wardrobes: Bloomers and Their Impact on Inequality in the 19th Century

Haylie Strum

Mentor: Kathy Reed

3. How were the accomplishments of women composers influenced by their male relatives?

Abby Carroll

Mentor: Mark Guerci

4. The Capitalist and White Supremacist History of the Ivory Piano

Jamie Anderson Mentor: Richard Mtisi

5.Bringing Joy and Belonging to the People of Yesterday and Tomorrow: Polka Music

Abigail Panka Mentor: Kathy Reed

POSTER SESSION A: 10:45 A.M. – 12:00 P.M.

Preus Library, Main Floor

1. Predicting the Probability of Faults in Steel Plates using Machine Learning

Erik Radke

Mentor: Thuy Do

2. Monitoring Livestock Movement with Deep Learning

Adam Koller, Nick Drew, Luc Vuong, Emma Tran

Mentor: Thuy Do

3.Exploring an Explorer: W. E. Rudolph's Photograph's of Indigenous Peoples in the Atacama Desert of Northern Chile.

Javiera Caro

Mentor: Anita Carrasco

4. The Social and Academic Experiences of DACA Luther Alumni

Evelyn Montoya

Mentor: Anita Carrasco

5.Developing methods for biological assessment of diverse agricultural soils.

Olivia Gustafson, Junita Sangare

Mentor: Gwen Strand and Jodi Enos-Berlage

6.Comparison of transformation of consciousness in the 7 Mansions of St.Teresa of Avila and Mandukya Upanishad.

Dickyi Lhamo, L'Engle Charis-Carlson

Mentor: Gereon Kopf

11.Investigating Epiclassic and Early Postclassic Archaeological Ceramic Pastes in Tula. Hidalgo

Alana Newell. Lauren Conner-Dieter

Mentor: Destiny Crider

12.Effect of Co-Inoculation on the Evolution of Antibiotic Production in P. chlororaphis

Avery Wrage, Gwen Coleman, Layken McGuire

Mentor: Eric Baack

13. Effect of Competition on Antibiotic Production Between Pseudomonas chlororaphis and Bacillus subtilis

Maxwell Chin, Emmelyn Cullen, Lilly Spade

Mentor: Eric Baack

14. Pseudomonas chlororaphis Antibiotic Production in Competitive Presence of Bacilis subtilis

Mallory Fynaardt, Cole Pollock, Brady Burkheimer, Rachel Heinrich

Mentor: Eric Baack

15. Working Towards an Inclusive World: A Study on Medical and Educational Resources for Disabled Youth in India

Sarah Olson

Mentor: Maryna Nading

16.From Home to Hospital to Home Again: A Historical and Experiential Review on Childbirth and Midwifery Practice in the US.

Lydia Gruenwald Mentor: Anna Peterson

17.Inclusion, creativity, and critical media skills: Hip Hop and its value in the music classroom

Rachel Tully

Mentor: Jill Wilson

19.Effects of acute alcohol exposure on dopamine and serotonin dependent behaviors in adult C.elegans

Alfred Cobbinah, Erin McGrath Mentor: Stephanie Fretham

20.Influence of Acute Ethanol Exposure on Glutamate-Mediated Osmotic Avoidance Behavior in *Caenorhabditis elegans*

Vicky Davis, Danika Brasic Mentor: Stephanie Fretham

21. Hungover Worms: Withdrawal from acute alcohol exposure in *C. elegans*.

Arnold Mutasingwa, Montserrat Ramirez Mainou

Mentor: Stephanie Fretham

22. How Acute Exposure to Commonly Co-abused Psychoactive Substances Affects Locomotion in C. elegans

Bronwyn Harvey, Nour El Kassem Mentor: Stephanie Fretham

23.Drunk on Dopamine - Role of Dopamine in C.elegan's Alcohol Response

Deepa Gayadin, McKenna Prunty

Mentor: Stephanie Fretham

24.Investigating the Effects of Chronic Ethanol Exposure on Osmotic Avoidance and Mechanosensation in C. elegans

Riley O'Donnell, Redempta Iratunganye

Mentor: Stephanie Fretham

25. The Effects of Glutamate in Tolerance Development to Ethanol Inhibited Locomotion in C. elegans

Braydon Saltou

Mentor: Stephanie Fretham

27. Healthcare Professional Observational Internship With WinnMed Hospital

Karson Trujillo

Mentor: Jodi Enos-Berlage

28.Gundersen Health Jterm Immersion

Ricardo Portilla Ruiz Mentor: Jodi Enos-Berlage

29. The Non-Justice System: A Prolific Study Proposal

Kendall Clausen

Mentor: Loren Toussaint

30.Prejudice and Political Stigma: The Role of Availability in Political Judgments and Base-Rate Evaluation

Noah Howe

Mentor: David Njus

31.Identity in Context: Exploring How Race and Gender Impact Interracial Climate Perceptions and Social Identity on College Campuses

Jack Fritz, Victor Oluwa, Esther Bitijula

Mentor: David Njus

32.Gender Differences in Threat Perception

Kjerstin Halverson, Anna Beaverson, Abby Zeeh

Mentor: David Njus

33.Depression and the Better than Average effect

Kelly Ristau, Lily Chen Mentor: David Njus

34. Framing effects and politics?

Jacob Walz, Aidan Schultheis, Jacob Wenger

Mentor: David Njus

35.Framing Heuristic and Gender Stereotypes

Connor Fletcher, Jerrianne Dannenmueller, Tristan Day

Mentor: David Njus

36.Political Stance, Confirmation Bias, and the Fundamental Attribution Error

Kai Haroldson, Tobias Snow, Abigail Ostrum

Mentor: David Njus

LUNCH BREAK: NOON-1:00 P.M.

SESSION III: 1:00-2:15 P.M.

Center for Faith and Life Recital Hall Words that Inspire

Moderator: Andy Hageman

1.Evaluating Strategies for Teaching Grammar in a Second Language Classroom: A Case Study of Intermediate Norwegian

Nicholas Rogness Mentor: Maren Johnson

2.Beyond the Label: How Turkish-German Hip-Hop Shaped Germany

Amy Webb

Mentor: Orcun Selcuk and Elizabeth Steding

3.To Die Full of Days: Historical Fiction from 1903 Fayette County, Iowa

Ethan Kober

Mentor: Amy Weldon

4. Girl: an Original Horror-Comedy Screenplay

Mia Irving

Mentor: Andy Hageman

Mott-Borlaug **Altering Animal Behavior and Development**

Moderator: Kirk Larsen

1.Camera trap analysis of effects of firearm hunting on white-tailed deer population movement in hunted and non-hunted areas

Janet Borchardt

Mentor: Dawn Reding and Kirk Larsen

2.Floral resource use by native and non-native bees on Luther College campus

Gwenyth Coleman Mentor: Kirk Larsen

3.Bat Behavior & Abundance Around Luther's Wind Turbine

Kaitlyn Bebensee Mentor: Dawn Reding

4.Loss of Zinc-dependant Matrix Metalloproteinase Gene *zmp-2* Causes Developmental Arrest in *Caenorhabditis elegans*

Maggie Haller

Mentor: Brian Hiester

Olin 102 **Organization and Optimization**

Moderator: Brittany Cord

1. Classification of Major League Baseball Home Runs

Kirby Masso Mentor: Thuy Do

2.LifeList - A Personal Inventory Management Web Application

Cody Pierce, Luc Vuong, Wolfgang Baldus

Mentor: Paul Mattson

3.AI-DRIVEN BUSINESS LOCATION RECOMMENDATIONS

Huy Nguyen, Jibran Khan, Diep Le

Mentor: Thuy Do

Preus Library Hovde Room Connecting with Natural Resources

Moderator: Rachel Brummel

1.An Assessment of Water Quality Improvement Efforts in the Driftless Area: Recommendations For a Regenerative Agricultural Transition

Ike Taylor

Mentor: Jon Jensen

2. Harmonizing Science and Art: The Transformative Power of Sound in 'Soul of Soil'

Willem Hawley

Mentor: Jane Hawley

3.12 Years of a Prairie Restoration in Northeast Iowa: Plant Community Shifts, Burn Regimes, and Management Recommendations

Josie Meyer

Mentor: Molly McNicoll

Valders 206

Paideia 112: Just and Unjust Policy

Moderator: Kate Narveson

1.The Interment Period and its Effects on Japanese American College Students

Ingrid Roeske

Mentor: Brian Caton

2. Queen Anne and the Court Masque: overcoming constraints

Katherine Strum

Mentor: Kate Narveson

3. Abuse Towards Women With Disabilities as a Consequence of Ableism

Violet Mowrey

Mentor: Lindsey Row-Heyveld

Jenson Choir Room **Exploring Musical Structures and Traditions**

Moderator: Melanie Batoff

1.Mixed Signals: How Caroline Shaw Accepts and Declines Classical Musical Traditions in Her String Quartet Writing

Lani Himegarner
Mentor: Kacy Clopton

2. The Fiddling Cello: Exploring and Building Vocabulary for Navigating Distinct Musical Languages

Mattie Snyder

Mentor: Andi Beckendorf

Valders 349 **Lightning Roundtable C**Moderator: Stephanie Travers

1. The Trump White House's Politicization of the Coronavirus Pandemic

Mansur Kasali

Mentor: Stephanie Travers

2. The impact of international food trade on health outcomes

Christ-Berly Derival
Mentor: Stephanie Travers

3."The Great Society" and the Policing of Black Urban America

Folabomi Longe

Mentor: Novian Whitsitt

4.Artificial Intelligence in Art

Serenity Bownik
Mentor: Gereon Kopf

5.Creating the "Ideal Worker": Vocational Education as a Uniting Force in Early Twentieth-Century Educational Reform

Olivia Moore

Mentor: Mark Guerci

SESSION IV: 2:30-3:30 P.M.

Center for Faith and Life Recital Hall

Paideia 112: Humanity, Technology, and Nature

Moderator: Gereon Kopf

1. How the Black Death prompted 14th-century Italians to engage in secular exploration and intellectual escapism, both of which were foundational to the Renaissance.

Meredith Dady

Mentor: Richard Mtisi

2.Is The Technology in Today's Era Prometheus's Fire?

Shan Ghimire

Mentor: Amy Weldon

3.Distance's Exerted Influence On Love

Ava Henningsen
Mentor: Christy Vrtis

4. Using Artificial Intelligence for Human Enhancement

Omotola Akingba Mentor: Gereon Kopf

Olin 102 Lighting Roundtable D

Moderator: Stephanie Travers

1.Determining the Sequence of the EPSP Synthase gene in Wild Parsnip

Maxwell Chin

Mentor: Brian Heister

2.Gender Bias in Cardiovascular Care: Ethical Considerations

Eirine Salman

Mentor: Stephanie Travers

3.Remembering the Impact of World War II Nurses

Chloe Moeller

Mentor: Mark Guerci

4.Leaving the underworld: Meaning and the escape from anarchy in Pulp Fiction

Douglas Johansson Mentor: Andy Hageman

5. Simple Yet Powerful: The Musical Compositions of Queen Liliuokalani

Katie Jiran

Mentor: Kathy Reed

Preus Library Hovde Room **Healthcare and Human Rights**

Moderator: Maryna Nading

1. Invisible Battles of "Ordinary" Mothers: Stories of Disability Advocacy in Iowa.

Grace McIlrath

Mentor: Anita Carrasco

2. Water Crisis in Yemen: Death, Disease, and Human Rights Violations

Lydia Swarney, Alex Meeter

Mentor: Orcun Selcuk

3. Walking With the With-Woman: Insights from Two Semesters with Midwives

Linnea Johnson Nordqvist Mentor: Maryna Nading

POSTER SESSION B: 2:30 P.M.- 3:45 P.M.

Sampson Hoffland Labs Carlson Atrium/Valders Concourse

39.Effect of Parasite Infections on the Gray Fox Microbiome

Ellie Gardner, Kirby Masso, Blake Anderson

Mentor: Dawn Reding

40.Effect of anthropogenic diet on grey fox microbiome.

Deepa Gayadin, Adam Koller, Jessica Droessler

Mentor: Dawn Reding

41.Effect of sex on the gray fox gut microbiome

Sofia Sackett, Julia Veit, Amenla Forjoe

Mentor: Dawn Reding

42.Effect of Age on the Gray Fox Gut Microbiome

Lauren Gray, Alyssa Gray, Abby Spore

Mentor: Dawn Reding

43.Effect of Canine Distemper Virus on the Gray Fox Gut Microbiome

Jens Bjorge, Sam Maston, Emma Tran

Mentor: Dawn Reding

44.Effect of Seasonality on Gray Fox Gut Microbiome

Avihe Kalipondoka, Daniel Pfeffer-Kleemann, Alana Newell

Mentor: Dawn Reding

45.Proposed restoration of oak forest: The role of white-tailed deer as an ecosystem engineer

Cole Pollock, Dylan Holven, Júlia Moreno

Mentor: Molly McNicoll

46.Bio 250: Restoration and Conservation Biology Proposed Savanna Restoration in Lionberger Preserve in Spring 2024

Elise Wilson, Stian Krogstad, Joseph Gorman

Mentor: Molly McNicoll

47. Restoration Proposal of Wet Prairie at Lionberger Environmental Preserve

Olivia Gustafson, Ella Marti, Iris Roddy

Mentor: Molly McNicoll

48.Proposed oak forest restoration: Countering the trend of mesophication

Owen Matzek, Mallory Fynaardt, Noah Arndt

Mentor: Molly McNicoll

49. Proposal for native prairie restoration and Pollinator habitat at Lionberger Preserve

Britt Fulton, Jane Addams, Amenla Forjoe

Mentor: Molly McNicoll

50. Proposal for restoration of sedge meadow at Lionberger Preserve

Clayton Nowak, Caleb Christiansen, Milan Bartelt

Mentor: Molly McNicoll

51. Nocturne's Awakening - Senior Honor's Project

Ren Shedinger Mentor: Ben Moore

52. Analyzing Solar Radio Emission Using a Wave Horn Antenna

Cirdan Klindworth, Will Ode, Thane Larson

Mentor: Jeff Wilkerson

53.Design and Implementation of a Horn Antenna For Solar Emission Analysis at 11GHz and Surrounding Frequencies

Thane Larson, Cirdan Klindworth, William Ode

Mentor: Jeff Wilkerson

54.Measuring X-Band Solar Emissions with a Pyramidal Wave Horn

William Ode, Thane Larsen, Cirdan Klindworth

Mentor: Jeff Wilkerson

56.Studying Cosmic Ray Muons

Ryan Holt, Jack Moriarty, Duy Nguyen

Mentor: Jeff Wilkerson

57.Cosmic Ray Muon Detection

Austin Efflandt, Cirdan Klindworth, Ian De Wall, Minh Nguyen

Mentor: Jeff Wilkerson

58. Alternative Processes in Printmaking

Christina Rolf
Mentor: Ben Moore

59.Medical Grade Honey as Wound Therapy: Pilot Study of Pressure Ulcer Regeneration in The ICU

Duong Truong

Mentor: Angela Kueny

60. The Use of Aromatherapy in Symptom Management for Cancer Patients

Amelia Solum

Mentor: Amy Schlachtenhaufen

61. The Impact of Non-Pharmacological Interventions for Dementia Patients

Megan Frutiger

Mentor: Amy Schlachtenhaufen

62.Breaking Stigma: Targeted Interventions on Nurse Perception of Intellectually and Developmentally Delayed Patients

Samuel Zegler-Evans

Mentor: Amy Schlachtenhaufen

63. The Use of Cognitive Behavioral Therapy in Reducing Nurse Burnout

Charlotte Ravenscroft

Mentor: Amy Schlachtenhaufen

64. The Use of Visual Information on Patient's Preprocedural Anxiety

Victoria Brown

Mentor: Amy Schlachtenhaufen

65.Incivility and Unprofessional Behavior in the Hospital Setting

Aliyah Arkley

Mentor: Amy Schlachtenhaufen

66. The Impacts of Interprofessional Collaboration in Acute Care Setting

Nora Baer

Mentor: Amy Schlachtenhaufen

68.The Impact of Virtual Reality Simulations in Nursing Education on Learning Outcomes of Undergraduate Students

Chayla Velander

Mentor: Amy Schlachtenhaufen

69. Pursuit of End-of-Life Care in Critically Ill Patients

Benjamin Bridges

Mentor: Amy Schlachtenhaufen

70.Preventing Burnout in Critical Care Nurses

Kimberly Church

Mentor: La Donna McGohan

71.Nurse Knowledge, Attitude, and Practice on the Prevalence of Oral Care in Intubated Critical Care Patients

Anna Kjeldahl

Mentor: Amy Schlachtenhaufen

72. The Use of Virtual Reality with Burn Patients

Sophie Selenke

Mentor: Amy Schlachtenhaufen

73. Music Therapy for Patients with an Autism Spectrum Disorder

Emma Amundson

Mentor: Amy Schlachtenhaufen

74. The Potential of Intervention-Based Programming on the Incidence of Burnout in Critical Care Nursing.

Katherine Syers

Mentor: Amy Schlatenhaufen

75. The Impact of Education on Youth Mental Health

Brooke Lidberg

Mentor: La Donna McGohan

76. Effects of Napping During the Night-Shift on Nurses' Fatigue and Performance

Johanna Muenkel

Mentor: La Donna McGohan

77. The Impact of Family Presence During Cardiopulmonary Resuscitation

Fiona Garrity

Mentor: La Donna McGohan

78.Impact on Eye masks and earplugs on sleep in hospitalization patients

Madelynn Liston

Mentor: Amy Schlachtenhaufen

79. The Impact of Mindfulness-Based Interventions on Nurses Working in Inpatient Settings

Claudia Poedsta

Mentor: Amy Schachtenhaufen

80. Enhancing Emergency Department Outcomes Through Trauma-Informed Care

Abigail Ostrum

Mentor: Amy Schlachtenhaufen

81. Enhancing Nursing Practice: Specialized Training In Electroconvulsive Therapy

Samantha Reesman

Mentor: Amy Schlachtenhaufen

EXHIBITS AND EVENTS:

The Art of the Kohler Foundation, Union Art Gallery

Madeleine Way

Mentor: Destiny Crider

Soul of Soil: CFA Jewel Theatre, 7:30 PM

Soul of Soil is a dance and field experiment elevating soil as the life source and the world's largest water purifier and agent for climate reform. For billions of years, the world beneath naturally modeled a collaborative, interactive, and interdependent community. Today, the state of the world's soil is dire, especially in areas that are responsible for a majority of agricultural output. We are investigating this problem as Soul of Soil examines the regenerative microbial tapestry through layers of the choreographic, sound, and production elements showcasing the reciprocal relationship of how the life below makes the life above possible. Tickets at tickets.luther.edu.

Spring Opera Performance: Cendrillon (Cinderella), CFL, 7:30 PM

Cendrillon (Cinderella), by Pauline Viardot. A timeless tail of role reversal, magical intervention, and the triumph of love. Sung in English. Tickets available at <u>tickets.luther.edu</u>.