

Salem State University

Research Day 2023

A QUARTER CENTURY TRADITION
OF SCHOLARSHIP AND CREATIVITY



Celebrating Research and Creative Activities at Salem State

Monday, May 8

Research Day

O'Keefe Complex

9 am-6 pm

Portfolio Day Keynote Address

Underground, Ellison Campus Center

Diana Mandelare Au, Executive Producer and Head of Production at AND/OR

Namita Devadas, Art Director at AND/OR

10 am - 11:30 am

Honors in Art Exhibition

Winfisky Gallery, Ellison Campus Center

Featuring the Works of Shaneyka Rodriguez Ortiz and Tricia Manning

10am - 4pm

Creative Writing Undergraduate Thesis Reading

Metro Room, Ellison Campus Center

7:30 pm

Tuesday, May 9

2023 Creativity Awards

Sophia Gordon Center

7 pm

Research Day 2023 May 8 Schedule of Events

9 am-12 pm Undergraduate Research Symposium

Gassett Basketball Gymnasium and O'Keefe classrooms

Posters on view in Gassett Center Basketball Gym

| | |
|----------------|-------------------------------------|
| 9 am | Opening remarks - Provost Silva |
| | All presenters at posters |
| 9:30-10:15 am | Presenters at even-numbered posters |
| 10:15-11 am | Presenters at odd-numbered posters |
| 9:10-10:25 am | Concurrent panels: Session I |
| 10:30-11:45 am | Concurrent panels: Session II |
| 11:45-12 pm | Closing remarks and reception |

12-1 pm Plenary *Building Inclusive Academic Communities*

O'Keefe 213 | Broadcast in Atrium

1-6 pm Faculty and Graduate Research Symposium

Gassett Gymnasium and O'Keefe classrooms

| | |
|----------------|--------------------------------|
| 1 - 2:15 pm | Concurrent panels: Session I |
| 2:20 - 3:35 pm | Concurrent panels: Session II |
| 3:40 – 5 pm | Concurrent panels: Session III |

5-6 pm Faculty and Graduate Poster Session, Faculty Publication Celebration and Reception

Gassett Gymnasium; publications on view all day

Undergraduate Research Symposium

9 am-12 pm Posters and Exhibits

On view in Atrium II | posters, looping presentations and videos

Ken Reker | Art + Design faculty
ASH

Shaneyka Rodriguez Ortiz and Tricia Manning | Honors in Art
Works on display in the Winfisky Gallery, Ellison Campus Center, through May 12

Music and Dance | senior half recitals

Celine Lizotte
Hannah MacNeil
Lea Cooney

Gassett Basketball Gymnasium

Biology / Jason M. Brown

8 **Campbell Boisvert**
Mining Genomes for Transcription Factors Involved in Cilia Assembly

Biology / Amy B. Sprengle

7 **Genesis Najarro and Iyannah Tillman**
Research in Biology: A Search for Antibiotics in our Coastal Marine Setting

Kriza Baldow
36 Discovery and Annotation of *Microbacterium foliorum* Actinobacteriophages and Statistical Analysis of the Percentage of Genes with No Known Function Across the E Cluster.

Biology / Joseph K. Buttner

60 **Robyn Cashins**
Independent Study in Aquaponics

Biology / Ryan Fisher

61 **Michael Kapsokalis**
Effect of Vermicompost on Tomato Plant Growth

Biology / Thea Popolizio

63 **Lindsay Aubin and Samantha White**
Using DNA Barcoding as Evidence to Detect "Fish Fraud" in Local Restaurants

Chemistry and Physics / Christine MacTaylor

2 **Imelda Bicaku**
Rhus Typhina and its Potential Medicinal Properties

4 **Klea Demiraj**
Uncovering the Therapeutic Potential of *Limonium carolinianum*

Stephen A. Riley
10 Therapeutic Properties of Endophytic Metabolites in Staghorn Sumac Found at the Forest River Salt Marsh

26 **Josh Sargent**
Potential Medicinal Usages of Juniper

- 42 **Zachery McCarthy**
Medicinal Potential of Endophytic Metabolites Found in Goldenrod
- Edward Urkowitz**
- 47 An Analysis of Potential Pharmaceutical Applications of Endophytic Metabolites Found in Evening Primrose
- 52 **Jim Thach**
Bioactivity & Medicinal Properties of Mullein Sourced in Salem, MA
- 55 **Danielle Jean**
A Study of the Medicinal Properties of Endophytes Found in Sea Lavender
- Noelle Wood**
- 57 The Endophytic Species of *Artemisia vulgaris* L. and their Implications on the Potential Medicinal Properties

Chemistry and Physics / Kristin Pangallo

- 56 **Danielle Jean and Noelle Wood**
Incorporating Atomic Absorption Spectroscopy into Introductory and Advance Coursework

Chemistry and Physics / Changqing Chen

- 9 **Abigail Allworth and Stephen Riley**
Various Nanoformulations of Curcumin to Increase Bioavailability
- 28 **Joss Kyrouz**
Will We Cure Alzheimer's Disease? An Analysis of Causes and Developing Treatments

Chemistry and Physics / Luke D. Conlin

- 16 **Anaily Lorenzo**
Stellar Spectra of Stars
- Gisady A. Mendoza and Luke D. Conlin**
- 12 The Social Dimensions of STEM Culture: How Does Lack of Diversity and Inclusivity Affect a Student's Socialization?
- 43 **Zachery R. McCarthy**
Black Holes: Explained by Quantum Mechanics and String Theory

Chemistry and Physics / Mustafa Yatin

- 3 **Klea Demiraj and Imelda Bicaku**
Synthesis of Silver Nano Particles (AgNPs) by using green tea (*Camellia sinensis*) leaves
- 32 **Pamela Rosales and Zack Zaleskas**
Exploring the Grand Unified Theory
- 53 **Marina Enriquez and Mateo Arroyave**
Cyclotron Production of Radioisotopes in Nuclear Medicine
- 48 **Hayley Hanifan**
Nuclear Accidents
- 30 **Ben Beals**
Nuclear Threats
- 45 **Justin Panetta**
The Use of Radiopharmaceuticals in Bone Imaging and Treatment of Bone Disease

Chemistry and Physics / Ya Zhou

Alexis MacTaylor and Christine MacTaylor

- 14 Comparing Traditional Solvents to Greener Solvents in the Study of Endophyte Metabolite Extracts

Education / Jill Girard

Catherine Grimes

- 101 A Guide to Embracing the Multicultural Classroom as a White Educator in Boston

English / Tanya Rodrigue

j. g. bova

- 34 Tales of Eilu | A Fantasy Audio Drama

Melanie Zimmermann

- 102 Equilibrium

Atiya Haynes

- 103 Childhood Grief

Geological Sciences / Brad Hubeny

David Thomas

- 35 The Disappearance of *Zostera marina* within the Bay of Duxbury, Kingston, and Plymouth

Alan Aparicio-Beltran

- 46 A Stratigraphic Interpretation of Holocene Salt Marsh Peat from Salem Sound, MA

Geological Sciences / James Cullen

Renaë Cerri

- 29 Enhancing Classroom Materials for Science Instruction in Elementary Education

Interdisciplinary Studies / Greg Carroll

Katherine Dion

- 17 The Complexity of Affordable Healthcare

Chiara Terreault

- 40 The Intricacies of Implementing Intersectionality into U.S. Federal Anti-Discrimination Laws

Mathematics / Kathi Crow

Anaily Lorenzo

- 15 Math in Origami

Media and Communication / Rebecca Hains

Xiaoyi Fan

- 66 What Makes a Kidfluencer in China

Music and Dance / Meghan McLyman

Jack Caravallo

- 38 Fusion: Intersections of Movement, Culture, and Genre through Dance Education

Nursing / Carol Gawrys

- Emily Maggiacomo**
1 Early Detection and Preventative Methods of Deep Vein Thrombosis in Postoperative Patients from a Total Joint Arthroplasty: A Review of Nursing Literature
- Jennifer Parada**
5 The Nurses' Thought on Physical Restraints in the Healthcare Setting

Nursing / Marion Frost

- Rachel Gray**
37 The Comprehensive Care of Pregnant Women with Opioid Use Disorder (OUD): The Application of Evidence to Nursing Practice

Nursing / Kathleen Adee

- Lindsey Gemme**
27 The Role of the Nurse in Patient Education, Disease Management, and Prevention of Complications in Diagnosis of Atrial Fibrillation
- Emily Ciman**
70 The Impact of School Nurses on Children's Academic Performance

Psychology / Carlos F. Aparicio

- Erik Barys**
13 Fixed Interval Schedules and Temporal Discrimination in the Fischer 344 Rat
- Erin Maybury**
19 The Superstition Study: A Systematic Replication
- Madison Kasputis**
20 Interim and Terminal Behaviors in the Fischer 344 Rat.
- Fabianiz Lamarche**
21 The Relationship between Abusive Relationships and Substance Abuse
- Ashleigh Bennett**
33 The Post-reinforcement Pause in Fixed Interval and Fixed Ratio Schedules
- Jeremy Bifano**
54 Comparing Fixed Time with Fixed Interval and Fixed Ratio Schedules
- Macgregor O'Callaghan**
62 The Performance of the Fischer 344 Rat on Fixed Interval and Fixed Ratio Schedules
- Kayla DeFeo**
64 Lever Pressing and Behavioral Organization

Psychology / Sophia Evett

- Sophia Fondulis**
41 The Role of Attachment and Well-Being on Adult Relationships
- Chantel Mendonca**
49 A Families' Guide to Emotional Intelligence in Early Childhood

Psychology / Ben Miller

- Marisa Parisi**
22 Television Character Personality Traits and Program Ratings

Social Work / Lisa Johnson

- 18 **Roxanne Gilmour, Gina Piro, Amanda Diluigi and Jade Ford**
Professional Perspectives on Childhood Factors that Influence Adult Substance Use
- 24 **Julia Gandolfo, Pamela Gagnon and Tyeisha Pham**
Perspectives from Mental Health Professionals: ADHD & CBT
- 39 **Theodore Rochlin and James Rose**
Attachment and Sense of Identity in the LGBTQ+ Population
- 44 **Joanna Trasher and Lydia Vogel**
Family Supports for Children with Autism
- 51 **Elizabeth Peach, MaryKate Munnely and Valerie Galvao**
Salem State University Students' Knowledge of Adverse Childhood Experiences

Social Work/Lamont Simmons

- 25 **Abigail Ritchie**
An Exploratory Analysis of the Lived Experiences of the Glass Sibling

Social Work/Rebecca Mirick

- 65 **Alexa Jarvis**
The Necessity for Disability Education in Social Work

Social Work/Andrea Hein

- 23 **Felicia Barbosa, Minna Boualaphanh, Miranda Fox and Hannah Poole**
Factors Contributing to College Student's Educational Success
- 58 **Jacque Ramirez, Emily McCray and Susan Orleans**
Social Media, Mental Health, and Academic Performance among Adolescents
- 67 **Orion Mooney, Nicole Venno and Kristin Welch**
Provider Education on the Transgender Community in Substance Use Treatment Centers
- 68 **Kim Buckley, Colin Deyo, Miah Hemingway and Paula Richards**
The Impact of COVID-19 on Adolescent Mental Health and Educational Experience
- 69 **Chinello Okoye, Selena Abreu, Eyleen Valenzuela and Jeishaly Vega**
What Do Social Work Students Learn in their Social Work Programs about the Foster Care System?

Sociology / Sara Moore

- 105 **Kara Bendanillo, Jessica Davis, Isabella Halko, Matthew Miller, McKenna Perkins, David Raymond, Phia Roldan and Eve Ushkurnis**
Using Photovoice to Examine Salem State Students' Post-Pandemic Academic Experiences

World Languages and Cultures / Fatima Serra

- 6 **Vanessa Flores**
The American Dream: A Latino Perspective

Panels and Presentations

9-10:30 am WLC Panel Session A

OK-214: World Languages and Cultures: Undergraduate Translation Portfolios

Kristen Burgess

Arias Reyes

Christine Belitsky

Jessica De Lima

Samantha Gurney

AnnaCarollina Souza

María Lucero

Samuel Zichella

9:10-11:45 am Undergraduate Panel Session A

OK-213 – Current Topics in Interdisciplinary Studies

Moderators: Greg Carroll and Elizabeth Duclos-Orsello

Ticiana Hoxhaj

Overall Risk Trends in Infant Mortality in the US

Faculty Advisor: Greg Carroll

Kelly Stanton

ADHD and the Effects of Treating with Stimulant Drugs

Faculty Advisor: Greg Carroll

Tara Driver

Substance Abuse and Mental Health

Faculty Advisor: Greg Carroll

Ella Capers

Understanding School Drop-out

Faculty Advisor: Greg Carroll

Keyla Romero

Early Childhood Special Education in Urban Schools: A Perspective on Special Education Program

Curriculum in Latino-Based Urban School District

Faculty Advisor: Greg Carroll

Jenna Sousa

Fiddler Crab Monitoring Project at Crane Beach: Understanding Impact on a Vulnerable Habitat

Faculty Advisor: Elizabeth Duclos-Orsello

Samantha Farrar

For Profit Prisons, A New Name for the Practice of Slavery

Faculty Advisor: Greg Carroll

Jessica Powers

Being Better: Masculinity in *God of War*

Faculty Advisor: Greg Carroll

Meaghan Lear

Whitewashing Native American Communities and Reclaiming Identity Through Social Media:
Two Part Study

Faculty Advisor: Elizabeth Duclos-Orsello

9:10-10:25 am Undergraduate Panel Session I

OK-103 - Current Topics in Sports and Movement Science: Marketing the Sport of Weightlifting in the United States

Moderator and Faculty Advisor: Peter Smolianov

Jenna Labadini

Jack Denley

Danielle Patrice

Wilber Rosario Morel

Anastasia Bessler

Jade Cabrera

Matt Mueller

Lic Pierre

Steven Taborda Ortiz

Noah Parson

Jaden Courtemanche

Josiah Beck

Hannah Aveni

Ramadan Barry

Miles Feeley

Brahiam Ortega

Colin Richmond

Eve Ushkurnis

Colin Richmond

Madison Frost

Josh Gruber

Megan Parthum

Christian Burt

Dana Kirwin

Axel Palacios

Amanda Swanson

ATRIUM - Explorations in Piracy: Historical Approaches to a Global Problem

Moderator and Faculty Advisor: Dane A. Morrison

Lily Dravyn

A Comparison in Piracy: Women versus Men

Calvin Narris

No, not bird nests! Pirate nests!

Jessica Pepe

Shiver Me Timbers

Libby Waterman

A Pirate's Cookbook

OK-225 – Current Research in Music and Dance

Moderators: Meghan McLyman and Betsy Miller

Katie Wheeler

The Impact and Influence of Movement and Learning in the First Grade Classroom

Faculty Advisor: Meghan McLyman

Kassidie Thibodeau

Combining Performance Art and Modern Dance

Faculty Advisor: Meghan McLyman

Arianna Cavallaro

The Roots of Modern Dance: Martha Graham and Katherine Dunham

Faculty Advisor: Betsy Miller

OK-220 – Crises and Reforms: Finding Ways Forward

Moderator: Guy Bellino

Gabbie Chaput

Examining the Link between Attachment Styles, Individual Resiliency, and COVID-19 Effects on Salem State Students

Faculty Advisor: Joanna Gonsalves

Cassidy O'Connor

Higher Education in Crisis: How Attacks from Conservatives, Elites, and Financiers Hurt Our Public Universities

Faculty Advisor: Daniel Mulcare

Grace Sotis

The Borgen Project's Ability to Avoid White Saviorism in their Quest to End International Poverty

Faculty Advisor: Vanessa Ruget

10:30-11:45 am Undergraduate Panel Session II

OK-102: Current Topics in Sports and Movement Science: Research in Exercise Science

Moderator and Faculty Advisor: Brett Ely

Evans Payen, Amber Palmer, Jack Amon and Benjamin Zimmerman

Effect of Knee Wraps on Performance

Arianna Yurkewicz, Mouna Laraki, Evelyn Barrios and Juliette Lumley

The Impact of Different Music Genres on Heart Rate and Blood Pressure During Exercise

Stephen Bingel, Christian Santillana, Tim Lam and Konstantino Papadopoulos

The Impact of Strength vs Aerobic Warmup on Vertical Jump Performance

Ashley Yebba, Sarah Norton, Anna Carolina Souza, Leslie Hiraldo and Stephanie Mercurio
Does Caffeine Change Your Heart Rate During Submaximal Exercise?

OK-103: Current Topics in Sports and Movement Science: Evaluating Event

Moderator and faculty Advisor: Peter Smolianov

Sidney Albert

Katielyn Burke

Cam Greeno

Matthew Lydon

Megan Parthum

Steven Taborda Ortiz

Dylan Andre

Timmy Desmond

Jenna Labadini

Matt Mueller

Nick Rusconi

Anastasia Bessler

Jonny Dutrow

Chris Lovell-Macdonald

Brahiam Ortega

Samantha Stankard

ATRIUM – Politics, Plagues and Peoples

Moderator and Faculty Advisor: Margo Shea

Carlos CuevaCaro

The Spiritual Conquest of Latin America

Faculty Advisor: Margo Shea

Charlotte McDonald

The Effect of the Justinian Plague on the Byzantine Empire

Faculty Advisor: Margo Shea

Christine Belitsky

“Today, the Proclivities of Individual Rule:” The Problem of the Supreme Court and How to Fix It

Faculty Advisor: Jennifer Jackman

Madden Brown

Civil Religions: The Development of Early American Political Parties

Faculty Advisor: Margo Shea

OK-220 – Researching the Natural and Physical World

Moderators: Lynn Fletcher, Mustafa Yatin

Elena Matarazzo

Bird’s Eye View: Exploring How Wild Songbirds Locate Food via Visual Cues

Faculty Advisor: Lynn Fletcher

Maria Query

Examining Responses of Mallards and Canada Geese to Threatening vs Non-Threatening Avian Sounds

Faculty Advisor: Lynn Fletcher

Shanta Khatun

Quantum Physics

Faculty Advisor: Mustafa Yatin

OK-225 - Looking and Seeing

Moderator: Cami Condie and Cindy Vincent

Anthony Lombardi

Representation of Alzheimer's and Dementia in Film

Faculty Advisor: Cindy Vincent

Emily Moran

A Picture Book of Boston's LGBTQ+ History

Faculty Advisor: Cami Condie

Leo Silva

Hair Discrimination Against Black Americans in Massachusetts: How its History and Actions Have Led to Change in the Last Twenty-Five Years

Faculty Advisor: Alexandros Kyrrou

Gabriella Rudzis

Consumer Confidence and Purchasing Habits in the Cosmetics Industry

Faculty Advisor: Parvathi Jayamohan

10:30 am-12 pm WLC Panel Session B

OK-214: World Languages and Cultures: Spanish Thesis Presentations

Jonathan O'Connor

La batalla por la equidad de los estudiantes indocumentados LatinX en la educación superior de los Estados Unidos

Dalhaysy Fernandez

La educación bilingüe es el futuro

Lesley Peguero Peña

¿Por qué no hay suficientes profesores bilingües en las escuelas?

Jessica De Lima

La necesidad de aumentar la asistencia sanitaria a los inmigrantes indocumentados

Katherine Santos

La mujer Latina en la lucha contra el machismo cultural

Jesenia Flores Janssen

La necesidad de la educación bicultural

Marieli Torres

¿Es importante que los estudiantes latinos reciben tarea para hacer en casa?

11–11:30 am Performances

Gassett Basketball Gymnasium

Music and Dance/Meghan McLyman

Savannah Kimber: Dancing in the Spotlight of Instagram

Vasia Fotopoulos: Fulfillment

Samantha Gurney: The Translator

12-1 pm Plenary: Building Inclusive Academic Communities (BIAC)

O'Keefe 213 | Broadcast in Atrium

Through this inclusive pedagogy co-mentoring program, senior and junior faculty, graduate and undergraduate students build community as they examine their own social identities, share their understandings of what makes an inclusive classroom, develop knowledge of the theory and practice of inclusive pedagogy, and design teaching and learning practices that foster greater student engagement and academic achievement.

This is collaborative community-based research in action!

In this plenary session, members of the 2022-2023 BIAC cohort will share the teaching and learning projects that they have developed through their research in inclusive pedagogy, examination of their own positions, assets, and needs, and observations of one another's teaching and learning.

Learn about the research process and learn from the projects in inclusive pedagogy from:

Keja Valens (moderator)

Christopher Mark

Sophia Brunet

Melissa McCarthy

Cami Condie

Binneh Minteh

Kathi Crow

Amanda Noah

Glen-Thanh Doan

Laylah Nur

Haddy Jatta

Yanelis Ortiz Aquino

Sanjay Kudrimoti

Kristin Pangallo

Siyan Liu (featured speaker)

Katie Piasecki

Saba Mahboubkhalajani

Francesca Pomerantz

Brooke Mann

Gianna Watson

1-6 pm Faculty and Graduate Research Symposium

1–4 pm WLC Graduate Panel Session C

OK214: World Languages and Cultures – MAT Spanish Presentations

Genevieve Catherine Cabrejas

El movimiento independentista catalan: Un análisis del movimiento y su apoyo

Molly Foye

Aprendizaje socio-emocional y lenguas mundiales: La conexión natural y la obligación evidente para programas en grados K-12

Agustina Harmon

La necesidad de programas especialmente diseñados para estudiantes de herencia hispana en las escuelas secundarias de los Estados Unidos

María Koehler

El cante: La esencia del flamenco y archivo de la cultura e historia de la comunidad gitana

Laurie O'Neill

Pecado de omisión: La falla de derechos humanos en la petición de asilo a niños no acompañados

Tian Quinn

El translingüismo: una forma de empezar a dismantelar las tendencias eurocéntricas en el aula de español

Neily Gabriela Rodriguez Ponce

Los beneficios y resultados de ser profesor exigente y cálido en el salón de clase

Sofía Peña Sidmore

Lograr la justicia social a través de la comunicación, la reflexión y la acción

Julieth Stephanie Valencia Rangel

La importancia de la enseñanza del español en las escuelas en los Estados Unidos como medio de asimilación de la diversidad cultural

1–2:15 pm Faculty and Graduate Panel Session I

OK-103 - Surveying US Weightlifting Coaches and Administrators to Explore Practices of Integrated Development of Mass and High-Performance Sport

Peter Smolianov
Nonna Tataryants
Christopher Boucher
Nisreen Bahnan
Christopher Schoen
Steven Dion

ATRIUM - Embodying Scholarship: Feminist Conversations on Rhetoric, Meaning, Relationship

Jan Lindholm
Michael Mahin
Dawn Stahura
Heather Wright

2:20–3:35 pm Faculty and Graduate Panel Session II

OK-220 - Moving Beyond the Center: Working with Nursing, Graduate and Multilingual Students

Al DeCiccio
Bill Coyle
Peter Carnevale
Theresa D'Entremont
Jacqueline MacAvery
Maryellen Groot

ATRIUM – Transcribing Manuscripts for a New Digital Archive: Discoveries in the Letters of Catharine Maria Sedgwick

Moderator: Elizabeth McKeigue

Lucinda Damon-Bach

Sister, Mentor, Inspiration: The Influence of Jane Minot Sedgwick on Catharine Maria Sedgwick

Catherine Tunney

Re-diagnosing Henry Sedgwick's Illness and Death: Revelations from his Sister's Letters

3:40-5 pm Faculty and Graduate Panel Session III

OK220 - Writing Opportunities for Salem State University Faculty

Al DeCiccio

Sarah Gurley Green

Guorong Zhu

Fatima Serra

Lisa Delissio

Megan Murphy

Lucinda Damon-Bach

Anne DeFelippo

ATRIUM: Student Success and Pedagogy

Moderator: Julie Whitlow

Cami Condie

Using Writing Workshops in Teacher Education to Build Writing Pedagogy and Equity-Oriented Mindsets

Kurt von Seekamm, Fernando Colina and Zaiyong Tang

An Analysis of Student Persistence at Salem State University 2011-2021

4:30-4:55 pm Graduate Presentation Session IIIB

OK-213 - School Based OT Implicit Bias Awareness

Angelica Camacho Martinez

Faculty Advisor: Kathleen Schlenz

5-6 pm Faculty and Graduate Poster Session

Gassett Basketball Gymnasium

- 1 **Elaina Curtis, Mathew Chetnik and Megan Wigton**
STEPping into College: How the Student Transition and Engagement Program Supports Students in their First Year
- 2 **Samantha O'Connor**
Qualitative Analysis of Jury Deliberations About Race in a Civil Discrimination Trial
Faculty Advisors: Anne-Marie Hakstian, Sophia Evett
- 3 **Delanie Carrasquillo**
Career Development with High School Students
Faculty Advisor: Johanna Smith
- 4 **Brian Ernest, Melissa Sullivan-Walker and Tracy Turner**
Our Credo: Educator Preparation Program Students' Perceptions of a Collaborative Pedagogy
- 5 **Rebecca Smalley**
Looking for Climate Justice in Nature Based Solutions: A Review of Methods for Estimating the Distribution of Benefits and Burdens
Faculty Advisor: Marcos Luna
- 6 **Deborah Olawuni and Marcos Luna**
Urban Tree Canopy Modeling
- 7 **Steven Silvern, Natasha Farina and Christy Ditommaso**
Local Food Procurement in Higher Ed: Results from a National Survey
- 8 **Natasha Farina**
Influence of Solar Energy Growth in Massachusetts Deforestation
Faculty Advisor: Stephen Young
- 9 **Jeannette Miranda**
Mapping Workshop in Guatemala: Bringing Salem State knowledge to Conservation Groups in Central America
Faculty Advisor: Stephen Young
- 10 **Danny Szotfried**
Coffee, Salem State Knowledge, Drones and Climate Justice
Faculty Advisor: Stephen Young
- 11 **Stephen Young**
Decades of Research Support from the School of Graduate Studies = Decades of Successful Research and Creative Endeavors
- 12 **Kelly Birmingham**
School-Based Sensory Interventions for Adolescents with Autism
Faculty Advisor: Jill Turcotte
- 13 **Sara Laliberte**
Parent Perspective of Occupational Therapy Focused Hippotherapy
Faculty Advisor: Jean MacLachlan
- 14 **Elizabeth McGinness**
Interventions to Enhance Sleep Performance Among Older Adults with Dementia
Faculty Advisor: Jeramie Silveira

- 15 Cassidy Troy**
Effective Strategies to Increase Independence for Self-Feeding in Children with Cerebral Palsy
Faculty Advisor: Kathleen Schlenz
- 16 Rebecca Smith**
OT Interventions to Increase ADL Performance in Parkinson's Disease
Faculty Advisor: Maria Parker
- 17 Emilie O'Brien**
Obtaining and Maintaining Employment for Adults with Intellectual Disabilities
Faculty Advisor: Jean MacLachlan
- 18 Emmarose Winder**
Interventions for Caregivers and Clients with Alzheimer's Disease and Related Dementias to Decrease Caregiver Burden
Faculty Advisor: Jeramie Silveira
- 19 Hannah Jankowski**
Interventions for Young Adults with Autism Spectrum Disorder (ASD) to Increase Social and Community Participation
Faculty Advisor: Jill Turcotte
- 20 Kiana Monroy Parra**
What Occupational Therapy Interventions are Used to Decrease Fear of Falling in Community Dwelling Older Adults?
Faculty Advisor: Jean MacLachlan
- 21 Corinne Grant**
Chronic Pain and Self-Management Interventions
Faculty Advisor: Maria Parker
- 22 Sarah Gould**
Occupational Therapy Interventions for Visuospatial Neglect Due to Recent Stroke
Faculty Advisor: Twyla Fink
- 23 Kelsey Augustson**
The Use of Occupational Therapy Interventions to Address Occupational Performance Issues in Persons with Chronic Pain
Faculty Advisor: Maria Parker
- 24 Shannon Davis**
OT-Based Interventions to Support Family Caregivers of Older Adults with Chronic Conditions Experiencing Role-Related Caregiver Burnout/Burden
Faculty Advisor: Jeramie Silveira
- 25 Alison L. Swiatocha**
Mindfulness Interventions to Support Self-Efficacy for Adults with Long-Term Health Effects from Acquired Brain Injury (ABI)
Faculty Advisor: Twyla Fink
- 26 Emily Ergang**
Interventions Currently Used for Adults with ADHD in the Post-Secondary Education Setting
Faculty Advisor: Maria Parker
- 27 Katelyn Glynn and Kailee LeBlanc**
Collaborative Practices of OT Practitioners and Teachers in a School-Based Setting
Faculty Advisor: Jill Turcotte

- 28 Alyssa Forgione and Megan Wentworth**
Addressing Self-Efficacy for Clients with Neurodegenerative Diseases
Faculty Advisor: Twyla Fink
- 29 Sarah Willson**
Utilization of Trauma-Informed Care by School-Based Occupational Therapy Practitioners
Faculty Advisor: Kathleen Schlenz
- 30 Deanna Melendez**
Sexual Wellness Interventions Occupational Therapy Practitioners Use with Adults with Intellectual and Developmental Disabilities
Faculty Advisor: Jeramie Silveira
- 31 Danielle Langelier and Kailee Salerno**
Current Mental Health Interventions Used in Schools-Based OT to Address Student Self-Regulation and Classroom Participation
Faculty Advisor: Kathleen Schlenz
- 32 Nicole Thistle**
Transition Planning for Post Secondary Employment
Faculty Advisor: Jill Turcotte
- 33 Haley Parker**
Anxiety-Reducing Interventions in Non-Speaking, Wheelchair-Using Students
Faculty Advisor: Kathleen Schlenz
- 34 Christine M. Anckner and Kenneth A. Jacobs**
Practical Application of Behavior Analysis with Wild Animals in a Sanctuary Setting
- 35 Brian Klapak and Kenneth A. Jacobs**
Browsing in Disequilibrium: How Media Behaviors are Influenced by Excess and Deficit Conditions
- 36 Ashley Moore and Cara Phillips**
The Effect of Staff Training on Procedural Integrity
Faculty Advisor: Darlene Crone-Todd
- 37 Audrey Hardenstine**
Staff Training Formats
Faculty Advisor: Darlene Crone-Todd
- 38 Jacquelyn Lantych**
The Effects of Pre-session Exposure on Academic Performance and Off-Task Behavior in Discrete Trial Training
Faculty Advisor: Darlene Crone-Todd
- 39 Victoria Witherell**
Operational Definitions in Behavior Analysis
Faculty Advisor: Darlene Crone-Todd
- 40 Christy Petrie**
Evaluating the Effects of Behavior Skills Training on Residential Staff's Program Implementation of a Task Analysis
Faculty Advisor: Darlene Crone-Todd
- 41 Cassandra Karamourtopoulos**
The Development of a Survey to Evaluate the Effect of Accurate Information on Perceptions of Punishment and Reinforcement by Specialization
Faculty Advisor: Darlene Crone-Todd

- 42 Lori D'Avolio**
Overcoming the Challenges of Addressing and Managing Obesity in Primary Care
Faculty Advisor: Mercy Bashir
- 43 Riry Iptaria**
Managing ESRD in Older Adults in Primary Care Settings
Faculty Advisor: Mercy Bashir
- 44 Viktoriya Wong**
Patient Evaluation and Education for HIV Pre-exposure Prophylaxis
Faculty Advisor: Mercy Bashir
- 45 Alyssa Abbott**
Managing Complicated Urosepsis in Older Adults
Faculty Advisor: Mercy Bashir
- 46 Angela Ding**
Managing Type 2 Diabetes Complications in Adult in Primary Care Setting
Faculty Advisor: Mercy Bashir
- 47 Erin Sullivan**
Recognizing and Managing Heart Failure with Preserved Ejection Fraction (HFpEF) in Primary Care
Faculty Advisor: Mercy Bashir
- 48 Peter Wainaina**
Management of Community Acquired Pneumonia in Older Adults Population in Primary Care
Faculty Advisor: Mercy Bashir
- 49 Courtney Drier**
Management of Spinal Cord Injuries in the Outpatient Setting
Faculty Advisor: Mercy Bashir
- 50 Paul Langat**
Management of Lumbago Complications in Older Adults in Primary Care Setting
Faculty Advisor: Mercy Bashir
- 51 Mam Smith**
Managing Atrial Fibrillation in Primary Care
Faculty Advisor: Mercy Bashir
- 52 Melissa Abbott**
Digital Health Technology in Elderly
Faculty Advisor: Cheryl Williams
- 53 Lisa Reinold**
Gamification in Nursing Education
Faculty Advisor: Cheryl Williams
- 54 Sam A. Marino**
Nurse Staffing and Patient Care Outcomes
Faculty Advisor: Cheryl Williams
- 55 Ioana Coltea**
Scoping Review - Cornell Note-Taking Method
Faculty Advisor: Cheryl Williams

- 56 Olivia Neumann**
Use of Interprofessional Education Simulation in Undergraduate Nursing Programs in Massachusetts and Rhode Island
Faculty Advisor: Cheryl Williams
- 57 Gianna Parisella**
Integrative Review: Climate Justice in Nursing Education
Faculty Advisor: Cheryl Williams
- 58 Katelin Angel**
The Integration of the Palliative CAREs Document in Undergraduate Nursing Education
Faculty Advisor: Cheryl Williams
- 59 Eric Knudsen**
Engaging Foster Youth in Sexual & Reproductive Health Conversations:
Social Work Practice and Evaluation Proposal
Faculty Advisor: Yvonne Vissing

5-6 Faculty and Staff Publication Celebration

Gassett Basketball Gymnasium

Musical accompanist: Mae Anderson

Mae Anderson is a sophomore at Salem State University pursuing a BA in music. She is a member of SSU Chamber Singers and one of the vocalists for Jazz Improv Ensemble. She also serves as co-president of the College Music Society.

About the Publication Celebration

The Center for Research and Creative Activities (CRCA) and the Frederick E. Berry Library proudly sponsor the annual Faculty Publication Celebration to recognize faculty, librarians and staff who have published scholarly works in the previous calendar year.

Over the years, we have saluted the publication of novels, biographies, scientific articles, poems, performances, art exhibitions, histories, political analyses, philosophical discourses, empirical studies and many more genres. Some of these pieces have resulted from work that was funded by prestigious national grants; some have received national or international awards. In all cases, our highly engaged faculty, librarians, and staff have produced these works while teaching, serving on campus committees, engaging with the broader community, mentoring and advising. Each year, the publications list is a testimony of their commitment to their academic field.

Research Day participants and attendees can browse a display of publications throughout the day in the Gassett Basketball Gymnasium, where the Faculty and Staff Bibliography of 2022 publications is available as a printed artifact.

Please join us in congratulating faculty, librarians, and staff on their accomplishments!

Joseph T. Flibbert Graduate Student Paper Award

Named in honor of Salem State professor Joseph T. Flibbert, this annual award has been given for more than two decades in recognition of outstanding graduate student writing and research.

This year, two papers tied for first place.

First Place Award (\$250)

Ashley Althoff

Brace for Impact: An Autoethnography

Nominated by Professor Kathleen Schlenz, Occupational Therapy

Michael Mahin

Rhetorical (de)construction of the Hollywood "It Girl"

Nominated by Professor Jan Lindholm, English department

Second Place Award (\$200)

Chloe Browning

ICare Inc. Needs Immediate Hire

Nominated by Guorong Zhu, Management Department

About Joseph Flibbert

After receiving a PhD from the University of Illinois in 1970, Flibbert joined the English faculty at Salem State, where he worked for nearly thirty years, until his death in 1999. During his tenure, Flibbert served as department chair and director of graduate studies in English. A distinguished Hawthorne and Melville scholar, Flibbert most notably taught American literary works and literature of the sea, subjects about which he lectured extensively at home and abroad. In addition to his work at the college, Flibbert served as president of both the Nathaniel Hawthorne Society and Salem Athenaeum. His published works include *Melville and the Art of Burlesque* (1974), "Poetry in the Mainstream," in *America and the Sea: A Literary History* (1995), and *Salem: Cornerstones of a Historic City* (1999).

The Center for Research and Creative Activities thanks the following offices and individuals for making this event possible:

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