



UNIVERSITIES OF  
WISCONSIN



# RESEARCH IN THE ROTUNDA

APRIL 2, 2025  
CAPITOL ROTUNDA, MADISON, WI



# RESEARCH IN THE ROTUNDA

*Showcasing the Work of UW Undergraduates*

[wisconsin.edu/research-in-the-rotunda](https://wisconsin.edu/research-in-the-rotunda)

[facebook.com/universitiesofwisconsin](https://facebook.com/universitiesofwisconsin)

[#RITR2025](https://X.com/UniversitiesWI)

## 21ST ANNUAL

# RESEARCH IN THE ROTUNDA

*April 2, 2025*

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## SCHEDULE INFORMATION

### **9:30-10:30am – Set Up Posters, Capitol Rotunda**

*Snacks available for student presenters and faculty advisers*

### **10:30am-2:30pm – Posters Display, Capitol Rotunda**

### **12:00pm – Remarks, Capitol Rotunda**

*Speaker: Jay Rothman, President, Universities of Wisconsin*

### **12:15pm – Lunch, North Hearing Room**

*For registrants only (lunch indicated on back of name tag)*

### **2:30-3:30pm – Dismantle Posters**

## FROM THE PRESIDENT



Dear Education Partner,

Welcome to the Universities of Wisconsin's 21<sup>st</sup> annual *Research in the Rotunda: Showcasing the Work of UW Undergraduates*. I am delighted to join you in the Capitol to highlight the research achievements of our undergraduate students.

The research projects on display embody the personal and intellectual growth experienced by the students who created them. Over the 21 years of holding this event, we have featured well over 1,500 undergraduate research projects. They are a tangible representation of the Universities of Wisconsin's ongoing commitment to build the talent pipeline and to expand knowledge and ideas that are vital to the state's success—objectives that are an integral part of our 2023-2028 Strategic Plan. Today's event highlights our commitment to having at least 25% of our undergraduate students involved in research at each of our universities by 2028.

Through partnering with our accomplished faculty, each student has a rewarding opportunity to enhance their project management, teamwork, and critical problem-solving skills. Students investigated real-life issues affecting local, state, national, and international citizens and communities. Engaging in undergraduate research is a proven practice that leads to student success, not only in school, but also in future careers. The students' research also has the potential to inform public policy and decisions made by the private sector to help resolve the complex challenges our local, state, and global communities face. Their work helps create knowledge that enables Wisconsin to address difficult problems while helping improve our quality of life. Research makes a difference!

We extend our appreciation to those who made this annual event possible, and we offer a special thanks to Wisconsin's elected representatives and

state government officials for their participation and support. We also offer congratulations to the families, community supporters, and UW faculty advisers and staff who support the students' research.

Most importantly, we congratulate the talented students whose work represents the significant and valuable role undergraduate research plays throughout the Universities of Wisconsin and beyond. Their efforts to extend knowledge beyond the boundaries of campus and to stimulate society through their research exemplify the Wisconsin Idea and make us all proud of them, our universities, and our state.

Sincerely,

A handwritten signature in black ink, appearing to read "Jay Rothman". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Jay Rothman

President

Universities of Wisconsin

# BOARD OF REGENTS

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Regent Desmond Adongo  
Regent Amy B. Bogost, *President*  
Regent Héctor Colón  
Regent Haben Goitom  
Regent Audrey Jenkins  
Regent Jim Kreuser  
Regent Edmund Manydeeds III  
Regent Timothy Nixon  
Regent Cris Peterson  
Regent Joan Prince  
Regent Ashok Rai  
Regent Jack Salzwedel  
Regent Amy Traynor  
Regent Mark Tyler  
Regent Jill Underly  
Regent Karen Walsh  
Regent Kyle M. Weatherly, *Vice President*

# CHANCELLORS

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Chancellor Thomas Gibson  
*University of Wisconsin–Stevens Point*

Chancellor Katherine P. Frank  
*University of Wisconsin–Stout*

Chancellor Renée Wachter  
*University of Wisconsin–Superior*

Chancellor Corey A. King  
*University of Wisconsin–Whitewater*



# FACULTY ADVISERS

Student research cannot occur without the dedication and personal commitment of faculty advisers. We wish to acknowledge the following faculty members for their work to make undergraduate research collaboration possible on every Universities of Wisconsin campus.

<b>Faculty Adviser</b>	<b>University/Organization</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>	
Joseph Mondloch	UW-Stevens Point	1, 69	24	71
Keith Gilland	UW-Stout	2	31	92
Amanda Little	UW-Stout	2	31	92
Jessica Hua	UW-Madison	3	26	77
Sarah Janssen	U.S. Geological Survey	3	26	77
Julia Chapman	UW-Stout	4	31	92
Nicole Hayes	UW-Stout	4	10	29
Keith Wojciechowski	UW-Stout	5	31	91
Erin Berns-Herrboldt	UW-Green Bay	6	30	90
Christopher Zahasky	UW-Madison	6	27	79
Rahul Gomes	UW-Eau Claire	7	31	91
Roderick Jones	UW-Eau Claire	8	31	91
Angela Jones	UW-Eau Claire	8	23	91
Frances Hawes	UW-Eau Claire	9	31	92
Eric Jamelske	UW-Eau Claire	10	31	92
Briana Rockler	UW-Eau Claire	10	31	91
Charlotte Sortedahl	UW-Eau Claire	11	10	28
Sarah Beer	UW-Eau Claire	12	31	91
Greg Kocken	UW-Eau Claire	12	31	91
Wufeng Tian	UW-Eau Claire – Barron County	13	23	67
Jason Cowell	UW-Green Bay	14	30	2
Dylan Polkinghorne	UW-Green Bay	15	30	88
David Radosevich	UW-Green Bay	15	30	90
Myunghee Jun	UW-Green Bay	16	30	90
Alison Jane Martingano	UW-Green Bay	17	30	88
Georjeanna Wilson-Doenges	UW-Green Bay	17	30	90
Zhuoli Axelton	UW-Green Bay	18	30	90
Kevin Jaklin	UW-Green Bay	18	30	90
Kimberley Reilly	UW-Green Bay	19	18	52
Rebecca Ablor	UW-Green Bay, Manitowoc Campus	20	9	25
Richard Hein	UW-Green Bay, Manitowoc Campus	20	1	2
Melanie Cary	UW-La Crosse	21	32	96
Tesia Marshik	UW-La Crosse	21	32	94
Cord Brundage	UW-La Crosse	22	32	94

<b>Faculty Adviser</b>	<b>University/Organization</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>
Berna Gercek-Swing	UW-La Crosse	23	32 95
David Elzinga	UW-La Crosse	24	32 94
Sumei Liu	UW-La Crosse	25	32 95
Amy Nicodemus	UW-La Crosse	26	32 95
Corina Mommaerts	UW-Madison	27	26 76
Mallika Nocco	UW-Madison	28	26 79
Nasia Safdar	UW-Madison	29	26 77
Matthew Gebbie	UW-Madison	30	27 79
Hrishikesh Tupkar	UW-Madison	30	26 77
Pippa Cospers	UW-Madison	31	26 77
Jeneile Luebke	UW-Madison	32	26 78
Amanda Seligman	UW-Milwaukee	33	4 10
Gabriela Nagy	UW-Milwaukee	34	7 19
Linnea Laestadius	UW-Milwaukee	35	4 10
Hanjoo Lee	UW-Milwaukee	36	7 19
David Kaplan	UW-Milwaukee	37	7 19
Adam Greenberg	Medical College of Wisconsin	38	7 19
Gregg Jamison	UW-Milwaukee at Waukesha	39	17 50
Jonathan Kasperek	UW-Milwaukee at Waukesha	40	28 82
Matt Richie	UW-Oshkosh	41	19 55
Kyle Petit	UW-Oshkosh	42	18 54
Ahmed Nasif	UW-Oshkosh	43	18 53
Marianne Johnson	UW-Oshkosh	44	18 54
Amber Lusvardi	UW-Oshkosh	45	19 55
Hom Kandel	UW-Parkside	46	22 64
Ilirian Dhimitruka	UW-Parkside	47	22 64
Jessica Orlofske	UW-Parkside	48	21 63
Kamil Samara	UW-Parkside	49	4 10
Melissa Gregg	UW-Parkside	50	21 62
Erin Hillard	UW-Parkside	51	21 62
Kristina Fields	UW-Platteville	52	17 51
Amanda Tucker	UW-Platteville	53	17 51
Ian MacKenzie	UW-Platteville	54	17 49
Chance Huberty	UW-Platteville	55	17 49
Muthu Venkateshwaran	UW-Platteville	55	17 49
Mark Levenstein	UW-Platteville	56	27 79
Mohammad Rabbani	UW-Platteville	56	17 49
Eugene Tesdahl	UW-Platteville	57	17 49
Sierra Howry	UW-River Falls	58	10 30
Zhiwei Zeng	UW-River Falls	58	10 30
Melanie Ayres	UW-River Falls	59, 62	10 30
Travis Tubre	UW-River Falls	59	10 30
Karly Anderson	UW-River Falls	60	10 30
Ashlynn Kirk	UW-River Falls	60	10 30
Kurt Vogel	UW-River Falls	60	10 30
Yoana Newman	UW-River Falls	61	10 28
Shaheer Burney	UW-River Falls	63	10 30

<b>Faculty Adviser</b>	<b>University/Organization</b>	<b>Poster</b>	<b>Legislative District Senate/Assembly</b>	
Scott Wallace	UW-Stevens Point	64	29	86
Laura Anderson McIntyre	UW-Stevens Point	65	24	71
Brad Casselberry	UW-Stevens Point	66	24	71
Douglas Miskowiak	UW-Stevens Point	66	24	71
Jared Homola	United States Geological Survey	67	24	71
Amy Springer	UW-Stevens Point	67	24	71
Tamás Bodor	UW-Stevens Point	68	24	71
Steve Hill	UW-Stevens Point	68	24	71
Brian Barringer	UW-Stevens Point	69	24	71
Laura Cole	UW-Stevens Point	69	24	71
Ann Impullitti	UW-Stevens Point	69	24	71
Shannon Riha	UW-Stevens Point	69	24	71
Bryant Scharenbroch	UW-Stevens Point	69	24	71
Ana M.Q.Vande Linde	UW-Stout	70	31	92
Molly Welch Deal	UW-Stout	71	25	75
Sarah Wynn	UW-Stout	71	31	92
Daniel Sinkovits	UW-Stout	72	31	92
Michael Tetzlaff	UW-Stout	73	31	92
Courtney Juelich	UW-Stout	74, 75	10	29
Tina Lee	UW-Stout	74, 75	31	92
Raymond Lee	UW-Superior	76	25	73
Eleni Pinnow	UW-Superior	77	25	73
Steven Rosenberg	UW-Superior	78	25	73
Kenna Bolton Holz	UW-Superior	79	25	73
Josh Stangle	UW-Superior	80	25	73
James Lane	UW-Superior	81	25	73
Hayley Bertrand	UW-Whitewater	82	15	43
Courtney Wilt	UW-Whitewater	83	15	43
Lauren Zepp	UW-Whitewater	83	16	48
Heather Niemeier	UW-Whitewater	84	15	43
Stephen Levas	UW-Whitewater	85	28	84
Leon Arriola	UW-Whitewater	86	16	46
Dale Splinter	UW-Whitewater	87	16	46
Daniel Zamzow	UW-Whitewater at Rock County	88	17	50

# STUDENT PRESENTERS BY UNIVERSITY

POSTER #

**Poster Title**

*Student Name, Hometown*

## FRESHWATER COLLABORATIVE RESEARCH FELLOWS

- 1** Adsorption of PFAS in Metal–Organic Frameworks  
*Jackson Mikel, UW-Stevens Point, Plover, WI*  
*Grace Versnik, UW-Stevens Point, Monroe, WI*
- 2** Competition Between Invasive Reed Canary Grass and a Native Sedge in a Western WI Trout Stream  
*Theodore Welch, UW-Stout, Milton, WI*
- 3** Madison Pond Contaminants by Land Use  
*Natasha Krieger, UW-Madison, St. Paul, MN*  
*Co-author: Kayla Holman*
- 4** Impacts of Trout Stream Restoration on Macroinvertebrate Communities  
*Michael Buss, UW-Stout, Madison, WI*
- 5** Precision Agriculture: Measuring Crop per Drop Using the Internet of Things, Machine Learning, and Mathematical Modeling  
*Lindsey Redepenning, UW-Stout, Elk River, MN*  
*Co-authors: Aiden Drew, Joshua Pederson*
- 6** Variations in the Mobility of Streambank Sediment Phosphorus Along the Wisconsin River  
*Claire Igielski, UW-Green Bay, Milwaukee, WI*  
*Callie Karsten, UW-Madison, Madison, WI*  
*Jessie Kreiling, UW-Green Bay, Appleton, WI*  
*Co-author: Vy Le, UW-Madison*

## UW-EAU CLAIRE

- 7** **A Machine Learning Approach Towards Prediction of Pancreatic Cancer Using Gene Expression and DNA Methylation**  
*Paige Keller, Crystal Lake, IL*  
*Samuel Morehead, Burlington, IA*  
*Co-authors: Zachary Caterer, Rick Jansen, Nijhum Paul*
- 8** **Early Childcare & Education Workforce Retention: A Menacing and Elusive Crisis**  
*Zoe Lewis, Savage, MN*
- 9** **Exploring Ageism in Healthcare: Perspectives from Future Professionals**  
*Inessah Cernohous, Rochester, MN*
- 10** **Exploring Farmers' Market Nutrition Incentive Programs in Wisconsin**  
*Morgan Dekan, Altoona, WI*  
*Cassandra Riehle, Eau Claire, WI*  
*Co-authors: Maya Campbell, Stevie Harper, Marc Joel Henry, Hanlin Liu, Abby McCullough, Luke Plagens, Teigen Ploeckelman, Sarah Schrauth*
- 11** **Professional Advancement Through Collaboration and Knowledge Between Nursing and Packaging Students: The PACK Initiative**  
*Collin Anderson, Verona, WI*  
*Kerry Carlstrom, Plymouth, MN*
- 12** **Vital Signs: A Digital Humanities Project Exploring the Impact of 1918 Influenza Pandemic on the Chippewa Valley**  
*Sylvie Leach, Wauwatosa, WI*

## UW-Eau Claire – Barron County

- 13** **Mathematical Analysis and Sustainable Design for a 100% Renewable Energy Transition in Milwaukee**  
*Kaihua Li, Chongqing, Chongqing, China*  
*Miao Shi, Luzhou, Sichuan, China*

**Poster Title***Student Name, Hometown***UW-GREEN BAY****14 Adverse Experience Alterations in the Temporal Neurodynamics of Social Reward***Grace Holschuh, Luxemburg, WI**Rene Houston, Two Rivers, WI**Christian Noria, Green Bay, WI**Elizabeth Williams, Green Bay, WI***15 Buffering Burnout: Emotional Composure in the Age of Mobile Technology***Raquel Botbyl, Menominee, MI**Megan vanDoorn, Ladysmith, WI**Co-authors: Andi Aucapina, Trinity Schreiber***16 Burnout of the Frontline Health Care Workers (HCWs) Working in Long-Term Care Facilities in Midwest during the Covid-19 Pandemic***McKenna Metropulos, Green Bay, WI***17 Nature Within Reach: The Effects of Virtual Reality Nature Experiences on Creativity, Stress, and Gratitude***Kathryn Barlow, Holmen, WI**Elizabeth Ellair, Sheboygan, WI**Caden Vercimak, Amherst, WI***18 Net Expense Ratios and Tracking Errors in S&P 500 Index Funds***Benjamin Heynen, Green Bay, WI***19 Whiskey Secrets: Resistance, Bootleggers and Prohibition in Wisconsin***Nathan Danz, Green Bay, WI**Justin Pittman, Algoma, WI**Kiley Rusch, Shawano, WI**Nicholas Sheier, Green Bay, WI***UW-Green Bay, Manitowoc Campus****20 Rain and Restoration Effects on Water Quality in Centerville Creek, Manitowoc, WI***Ashley Muench, Fond du Lac, WI**Anthony Skupas, De Pere, WI*

## UW-LA CROSSE

- 21** College Students' Susceptibility to Misinformation  
*Madeline Lee, Farmington, MN*
- 22** Developmental Impact of Neonicotinoid and Nicotine Exposure in Chicken Embryos  
*Dylan Motschenbacher, Tomah, WI*  
*Co-author: Brielle Hachey*
- 23** Factors Influencing Academic Outcomes for First-Generation Students  
*Daniela Gomez-Meza, Arcadia, WI*
- 24** Proposing Wolf Management Zones in Wisconsin Using Spatial Clustering  
*Julia Haas, Hudson, WI*
- 25** Role of Mast Cells in Stress-Induced Increase in Intestinal Permeability  
*Lauren Broman, Wrightstown, WI*  
*Co-author: Lexi Valeri*
- 26** Textile Tools and Technologies of Bronze Age Europe  
*Kyndra Schuebel, Cameron, WI*

## UW-MADISON

- 27** CalEITC Effects on Single and Married Maternal Labor  
*Genevieve Goetz, Wheaton, IL*
- 28** Can a New Satellite Tool Measure How Much Water WI Potatoes Use?  
*Jehona Zeneli, Madison, WI*
- 29** Determining the Synergistic Properties of Natural Extracts in Combination with Vancomycin against *Clostridioides difficile*  
*Tyler Sloan, Appleton, WI*
- 30** Engineering Safer Materials for Energy Storage Technologies  
*Jack Verich, Winneconne, WI*
- 31** Griseofulvin Increases Multipolar Mitosis via Centrosome Amplification and Sensitizes Cancer Cells to Radiation Therapy  
*Pate Lantz, Hartland, WI*
- 32** The Nurse's Role in Addressing Intimate Partner Violence in Pregnant Indigenous Women  
*Bella Schuelke, Waukesha, WI*

**Poster Title***Student Name, Hometown***UW-MILWAUKEE**

- 33** Aldo Leopold: The History of a Pioneering Genius  
*Kate Jakubowski, Sun Prairie, WI*
- 34** Associations Among Resilience, Acculturative Stress, and Mental Health Outcomes in Latino/a Immigrants Across the Lifespan  
*Tomás Hill, Oneida, WI*
- 35** Griefbots and the Digital Afterlife: Ethnic and Cultural Implications of AI and Mourning  
*Fridarose Hamad, Brookfield, WI*
- 36** Political Orientation and Global Crises: How Political Orientation Affects Awareness of Children in Conflict  
*Miso Choi, Republic of Korea*
- 37** Pulsar Variability with the ASKAP Variables and Slow Transients Survey  
*Benjamin Lorenz, Mequon, WI*
- 38** The Influence of Practice Effects during Neuropsychological Testing of Cancer-Related Cognitive Impairment  
*Lillian Hassan Thomas, Kenosha, WI*

**UW-Milwaukee at Waukesha**

- 39** Cultural Resources at the UWM at Waukesha Field Station: Archaeological Perspectives on Past Human Behavior, Adaptations, and Land Use  
*Toby Janssen, Williams Bay, WI,  
Sage Schmidt, Colgate, WI  
Jadon Thornton, Hartford, WI  
Co-author: Xavier Arbelo*
- 40** The Historical Context Behind the “Missing and Murdered Indigenous Women and Girls Movement”  
*Morgan Duke, Nashotah, WI*



## UW-OSHKOSH

- 41** Breaking Free: A Study of Sobriety as a Pathway Out of Recidivism  
*Antonina Lattuca, Schiller Park, IL*
- 42** Concussion Baseline Differences in Healthy Collegiate Athletes vs. Non-Athletes on the Bertec Vision Trainer  
*Kennedy Koehler, Appleton, WI*  
*Co-authors: Angie Blinderman, Maris Heun, Drue Polka*
- 43** IoT-Facilitated mmWave Sensing Platform for Simple Gesture Recognition  
*Paul Price, Oshkosh, WI*
- 44** The Effects of School Performance, Voting, and Economic Factors on Wisconsin Students Civil Liberties  
*Ryne Panzer, Oregon, WI*
- 45** The Modern US Feminist Movement: A Measure of Mobilization across the Upper Midwest (1970-2020)  
*Amanda Pierron, Neenah, WI*

## UW-PARKSIDE

- 46** Development of Next-generation Superconducting Electronic Devices  
*Riley Tucker, Racine, WI*  
*Angelina Zweifel, Waterford, WI*
- 47** Naturally Derived UV Filters: Comparison of Sun Protection Properties of a Library of Hydroxycinnamic Esters  
*Jacob Christensen, Racine, WI*  
*Peter Tagalakis, Pleasant Prairie, WI*  
*Hunter Zoerner, Pleasant Prairie, WI*  
*Co-author: Magnus Schroeder*
- 48** Parasite Communities in Fish Populations of Northern Wisconsin  
*Connor Alton, Mount Pleasant, WI*
- 49** Predictive Modeling and Data Analysis of Mobile User Behavior  
*Gavin Hanzel, Union Grove, WI*  
*Matthew Klug, Racine, WI*  
*Tyler Villalobos, Racine, WI*
- 50** The Effect of Sense of Agency on Voluntary Motor Action  
*Samantha Esp, Gurnee, IL*  
*Co-author: Jose Herrera*
- 51** The Influence of Public Identity Orientation on Mechanisms of Body Image and Disordered Eating  
*Evelyn Buono, Bristol, WI*  
*Shawna Vermilyer, Bristol, WI*  
*Co-author: Mallory Farmer*

**Poster Title***Student Name, Hometown***UW-PLATTEVILLE**

- 52** **Cycling Infrastructure in the Netherlands**  
*Ella Imhoff, Cottage Grove, WI*  
*Cameron Joseph, Romeo, MI*  
*Jak Kielpikowski, Kewaunee, WI*  
*Lauren Lodico, Port Byron, IL*  
*Will Straka, Mineral Point, WI*
- 53** **Evaluating AI Capacity for Creating Successful Narratives**  
*Jade Fitzgerald, Madison, WI*
- 54** **Photo-mediated Hexafluoroisopropoxylation of Unactivated Aryl Halides**  
*Alex Cutty, Ixonia, WI*  
*Cohen Wojnowiak, Eland, WI*  
*Co-authors: Brooke Boyden, Natalie Haen, Alex Litza, Adia Metz, Alex Oberbroeckling, Nicole O'Leary, Hannah Popp, Nathan Soehner, Isaac Stiles, Trevor Taylor, Sydney Tobin*
- 55** **Plant Essential Oils for the Management of Aphanomyces Root Rot in Alfalfa**  
*Lillian Dalbey, Platteville, WI*  
*Anna Hagemann, Monroe Center, IL*  
*Esther Vertein, Madison, WI*  
*Lauren Young, Muscatine, IA*  
*Co-authors: Melina Debroux, Jamie Voegeli*
- 56** **Synthesis and Antibacterial Properties of Copper Metal-Organic Frameworks on Modified Cotton Fabrics**  
*Faith Rothkopf, Delavan, WI*
- 57** **The Ellenboro Drummer: Gender, Justice, Wisconsin, and the U.S. Civil War**  
*Madilyn Henderson-Allen, Barneveld, WI*  
*Olivia Schweiger, Beaver Dam, WI*  
*Ashley Weis, Colby, WI*

**UW-RIVER FALLS**

- 58** **Development of an Alfalfa Haylage Fractionation System**  
*Natalie Bostrom, River Falls, WI*  
*Dakota Schmidtbauer, River Falls, WI*  
*Co-authors: Caleb Lokker, Zachary Muenzner, Wyatt Stehr*

**59** Employment, Study Habits, Academic Stress, and Wellbeing: Finding the Ideal Balance

*Justin Gasparas, Florence, WI  
Desirea Szabla, River Falls, WI*

**60** Relationship of Tissue Dimensions and Stun Placement on Cadaver Heads from Bison (*Bison bison*)

*Allison Matzek, Appleton, WI  
Co-author: Emma M. Hamilton*

**61** Summer Annual Forages Influence on Soil Health in NW Wisconsin

*Heather Hatfull, River Falls, WI*

**62** The Relationship Between Positive and Adverse Childhood Experiences and Academic Anxiety and Unhealthy Behaviors in College Students

*Emma Van Oss, DePere, WI  
Hallie Roschen, River Falls, WI*

**63** What Makes Dairy Farms More Sustainable: The Economic, Sociological, and Demographic Determinants of Utilizing Sustainable Practices in Wisconsin

*Maria Zillges, Larsen, WI*

## UW-STEVENS POINT

**64** A Comparative Study of Credit Unions and Banks in Wisconsin

*Michael Brierton, Junction City, WI*

**65** An Assessment of Depreciative Behavior on the Green Circle Trail

*Violet Schafer, Saint Paul, MN*

**66** Breathing Life into the Historical U.S. Census Using Modern GIS

*Jarita Bavido, Stevens Point, WI  
Co-authors: Cord Buckner, Kali Eder, Mason Holz, Meghan Schimka,  
Miranda Solem*

**67** Effectiveness of a Lake Sturgeon qPCR Sexing Assay for Sex Determination in the American Paddlefish

*Lee Hetzel, Glenbeulah, WI*

**68** The Anatomy of Trump's Comeback - Results from the 2024 UW-Stevens Point Exit Poll

*Jenna Barwick, West Allis, WI*

**69** Using Plants to Remediate PFAS from Soils

*Josephine Crisci, Waukesha, WI  
Sarah Dawe, Kiel, WI  
Grace Geils, Lake Geneva, WI  
Morgan Harwood, Neenah, WI  
Anna Hurtado, Chilton, WI  
Benjamin Jore, Stevens Point, WI  
Sawyer Miller, Merrill, WI  
Benjamin Opaneye, Stevens Point, WI*

*Mary Joy Relagio, Schofield, WI  
Olivia Schwarz, Brillion, WI  
Alexandra Silavanh, Wausau, WI  
Danielle Singkofer, Wausau, WI  
Lizzy Vitale, Weston, WI  
Co-authors: Sharayah Lazaroff,  
Jenna Muenchow*

**Poster Title***Student Name, Hometown***UW-STOUT**

- 70** Changes in the Chemical Properties of Surface Waters in Dunn County  
*Bryanna Hoffman, Eau Claire, WI*  
*Co-authors: Madeline Candline, Riley Strobush*
- 71** Elderly Americans: Maintaining Independence and Well-Being  
*Bria Moore, Wisconsin Rapids, WI*
- 72** Electric Circuit Simulation with Explicit Simulation of Mobile Charges  
*Emmett Jaakkola, Apple Valley, MN*
- 73** Kintsugi 3D Builder: User Experience Design & Implementation  
*Luke Denney, Byron, MN*
- 74** Off-Campus Housing in Menomonie, Wisconsin  
*Corey Brisiel, Eau Claire, WI*  
*Nik Nelson, Burnsville, MN*
- 75** Social Determinants of Substance Use Disorders and Addiction Treatment: Evidence from Arbor Place Professionals  
*Cassandra Sciarra, Saint Paul, MN*

**UW-SUPERIOR**

- 76** Automated GIS Workflow for Agricultural Analysis  
*Lucas Palomino Linares, Superior, WI*
- 77** Best Practices for Mentally Preparing and Then Reintegrating Students Who Are Studying Abroad  
*Annabelle Fries, Superior, WI*
- 78** Exploring Machine Learning Applications in Gaming for Enhanced Character Locomotion and Behavior  
*Edomiyas Asmerom, Superior, WI*
- 79** Informal Caregiving Students' Stress  
*Taylor Powell, Superior, WI*
- 80** Mathematical Analysis of Kaleidoscopes in At Least 2-Dimensions  
*Tasneem Aidabi, Superior, WI*
- 81** Synthesis of Eugenol Derivatives and Evaluation of Their Bioactivity  
*Addison Holck, Superior, WI*

## UW-WHITEWATER

- 82** Computations of the Euler Characteristic of the Coxeter Cohomology of  $S_3$

*Jing Anne McLaughlin, Waterford, WI*

- 83** Exploring the Impact of a Young Adult Book Club on Teacher Candidates Thinking about Disability

*Abigail Sokoloskis, Bristol, WI*

*Co-author: Joelle Sigwarth*

- 84** Exploring the Relationship Between Alcohol Use and Disordered Eating Attitudes and Behaviors in College Students

*Iliana Aviles, Middleton, WI*

*Co-authors: Hailey Fish, Heather Guiney*

- 85** Identification of Ricordea Florida Endosymbiont Type in Relation to Recovery Rates after an Acute Bleaching Event

*Halle Boldt, Kimberly, WI*

- 86** Quantum Mechanics for Population Dynamics; A New Approach to Susceptible and Infectious Dynamics

*Cyril Yelk, Columbus, WI*

- 87** Spring Brook Creek Water Quality Analysis

*Cody Bunch, Waunakee, WI*

*Brianna Gaulin, Orfordville, WI*

## UW-Whitewater at Rock County

- 88** The Phenazine Operon and Antibiotic Production in *Pseudomonas chlororaphis*

*Kaylynn Bacon, Albany, WI*

# STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

## Legislative District

Senate/Assembly	Student Presenter	University	Poster
1 1	Grace Holschuh	UW-Green Bay	14
1 1	Jak Kielpikowski	UW-Platteville	52
1 1	Justin Pittman	UW-Green Bay	19
1 2	Halle Boldt	UW-Whitewater	85
1 2	Lauren Broman	UW-La Crosse	25
1 2	Kennedy Koehler	UW-Oshkosh	42
1 2	Emma Van Oss	UW-River Falls	62
1 3	Anna Hurtado	UW-Stevens Point	69
1 3	Allison Matzek	UW-River Falls	60
1 3	Olivia Schwarz	UW-Stevens Point	69
2 5	Tomás Hill	UW-Milwaukee	34
2 6	Kiley Rusch	UW-Green Bay	19
5 13	Sylvie Leach	UW-Eau Claire	12
5 14	Jenna Barwick	UW-Stevens Point	68
5 15	Fridarose Hamad	UW-Milwaukee	35
7 19	Miso Choi	UW-Milwaukee	36
8 22	Benjamin Lorenz	UW-Milwaukee	37
9 25	Rene Houston	UW-Green Bay	14
9 26	Elizabeth Ellair	UW-Green Bay	17
9 27	Sarah Dawe	UW-Stevens Point	69
9 27	Lee Hetzel	UW-Stevens Point	67
10 29	Daniela Gomez-Meza	UW-La Crosse	23
10 30	Natalie Bostrom	UW-River Falls	58
10 30	Julia Haas	UW-La Crosse	24
10 30	Heather Hatfull	UW-River Falls	61
10 30	Hailie Roschen	UW-River Falls	62
10 30	Dakota Schmidtbauer	UW-River Falls	58
10 30	Desirea Szabla	UW-River Falls	59
11 31	Toby Janssen	UW-Milwaukee at Waukesha	39
11 31	Faith Rothkopf	UW-Platteville	56
11 32	Evelyn Buono	UW-Parkside	51
11 32	Abigail Sokoloskis	UW-Whitewater	83
11 32	Shawna Vermilyer	UW-Parkside	51
11 32	Hunter Zoerner	UW-Parkside	47
11 33	Grace Geils	UW-Stevens Point	69
11 33	Gavin Hanzel	UW-Parkside	49
12 35	Sawyer Miller	UW-Stevens Point	69

**Legislative****District**

<b>Senate/Assembly</b>	<b>Student Presenter</b>	<b>University</b>	<b>Poster</b>	
12	36	Justin Gasparas	UW-River Falls	59
13	37	Olivia Schweiger	UW-Platteville	57
13	37	Cyril Yelk	UW-Whitewater	86
15	43	Theodore Welch	UW-Stout	2
15	45	Brianna Gaulin	UW-Whitewater	87
16	46	Ella Imhoff	UW-Platteville	52
16	48	Kate Jakubowski	UW-Milwaukee	33
16	48	Esther Vertein	UW-Platteville	55
17	49	Lillian Dalbey	UW-Platteville	55
17	49	Anna Hagemann	UW-Platteville	55
17	49	Cameron Joseph	UW-Platteville	52
17	49	Lauren Lodico	UW-Platteville	52
17	49	Lauren Young	UW-Platteville	55
17	50	Kaylynn Bacon	UW-Whitewater at Rock County	88
17	50	Ryne Panzer	UW-Oshkosh	44
17	50	Grace Versnik	UW-Stevens Point	1
17	51	Madilyn Henderson-Allen	UW-Platteville	57
17	51	Will Straka	UW-Platteville	52
18	52	Tyler Sloan	UW-Madison	29
18	53	Morgan Harwood	UW-Stevens Point	69
18	53	Amanda Pierron	UW-Oshkosh	45
18	54	Antonina Lattuca	UW-Oshkosh	41
19	55	Paul Price	UW-Oshkosh	43
19	55	Jack Verich	UW-Madison	30
19	55	Maria Zillges	UW-River Falls	63
19	56	Jessie Kreiling	UW-Green Bay	6
19	57	Caden Vercimak	UW-Green Bay	17
20	60	Ashley Muench	UW-Green Bay, Manitowoc Campus	20
21	62	Riley Tucker	UW-Parkside	46
21	63	Tyler Villalobos	UW-Parkside	49
22	64	Samantha Esp	UW-Parkside	50
22	65	Lillian Hassan Thomas	UW-Milwaukee	38
22	65	Peter Tagalakis	UW-Parkside	47
22	66	Connor Alton	UW-Parkside	48
22	66	Jacob Christensen	UW-Parkside	47
22	66	Matthew Klug	UW-Parkside	49
23	67	Kaihua Li	UW-Eau Claire – Barron County	13
23	67	Kyndra Schuebel	UW-La Crosse	26

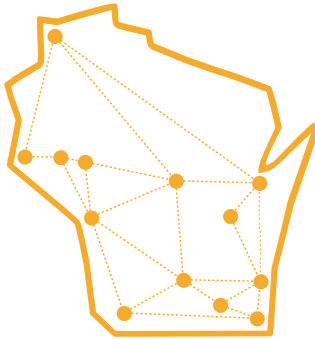
**Legislative****District**

<b>Senate/Assembly</b>		<b>Student Presenter</b>	<b>University</b>	<b>Poster</b>
23	67	Miao Shi	UW-Eau Claire – Barron County	13
23	68	Megan vanDoorn	UW-Green Bay	15
23	69	Ashley Weis	UW-Platteville	57
24	70	Dylan Motschenbacher	UW-La Crosse	22
24	71	Jarita Bavido	UW-Stevens Point	66
24	71	Benjamin Jore	UW-Stevens Point	69
24	71	Jackson Mikel	UW-Stevens Point	1
24	71	Benjamin Opaneye	UW-Stevens Point	69
24	71	Violet Schafer	UW-Stevens Point	65
24	72	Bria Moore	UW-Stout	71
25	73	Tasneem Aidabi	UW-Superior	80
25	73	Edomiyas Asmerom	UW-Superior	78
25	73	Annabelle Fries	UW-Superior	77
25	73	Addison Holck	UW-Superior	81
25	73	Lucas Palomino Linares	UW-Superior	76
25	73	Taylor Powell	UW-Superior	79
26	77	Jade Fitzgerald	UW-Platteville	53
26	77	Genevieve Goetz	UW-Madison	27
26	77	Callie Karsten	UW-Madison	6
26	77	Natasha Krieger	UW-Madison	3
27	79	Michael Buss	UW-Stout	4
27	79	Jehona Zeneli	UW-Madison	28
27	80	Collin Anderson	UW-Eau Claire	11
27	81	Iliana Aviles	UW-Whitewater	84
27	81	Cody Bunch	UW-Whitewater	87
28	82	Josephine Crisci	UW-Stevens Point	69
28	82	Bella Schuelke	UW-Madison	32
28	83	Claire Igielski	UW-Green Bay	6
28	84	Jing Anne McLaughlin	UW-Whitewater	82
28	84	Angelina Zweifel	UW-Parkside	46
29	85	Alexandra Silavanh	UW-Stevens Point	69
29	85	Danielle Singkofer	UW-Stevens Point	69
29	85	Lizzy Vitale	UW-Stevens Point	69
29	86	Michael Brierton	UW-Stevens Point	64
29	87	Mary Joy Relagio	UW-Stevens Point	69
29	87	Cohen Wojnowiak	UW-Platteville	54
30	88	Nicholas Sheier	UW-Green Bay	19
30	88	Anthony Skupas	UW-Green Bay	20
30	89	Nathan Danz	UW-Green Bay	19
30	89	Benjamin Heynen	UW-Green Bay	18



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<b>Senate/Assembly</b>	<b>Student Presenter</b>	<b>University</b>	<b>Poster</b>
30 89	Elizabeth Williams	UW-Green Bay	14
30 90	Raquel Botbyl	UW-Green Bay	15
30 90	McKenna Metropulos	UW-Green Bay	16
30 90	Christian Noria	UW-Green Bay	14
31 91	Kerry Carlstrom	UW-Eau Claire	11
31 91	Morgan Dekan	UW-Eau Claire	10
31 91	Bryanna Hoffman	UW-Stout	70
31 92	Corey Brisiel	UW-Stout	74
31 92	Luke Denney	UW-Stout	73
31 92	Emmett Jaakkola	UW-Stout	72
31 92	Nik Nelson	UW-Stout	74
31 92	Lindsey Redepenning	UW-Stout	5
31 92	Cassandra Sciarra	UW-Stout	75
31 93	Inessah Cernohous	UW-Eau Claire	9
31 93	Paige Keller	UW-Eau Claire	7
31 93	Zoe Lewis	UW-Eau Claire	8
31 93	Samuel Morehead	UW-Eau Claire	7
31 93	Cassandra Riehle	UW-Eau Claire	10
32 94	Kathryn Barlow	UW-Green Bay	17
32 95	Madeline Lee	UW-La Crosse	21
33 98	Sage Schmidt	UW-Milwaukee at Waukesha	39
33 98	Jadon Thornton	UW-Milwaukee	39
33 99	Alex Cutty	UW-Platteville	54
33 99	Morgan Duke	UW-Milwaukee at Waukesha	40
33 99	Pate Lantz	UW-Madison	31



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