

MARCH 6, 2024 CAPITOL ROTUNDA, MADISON, WI



Showcasing the Work of UW Undergraduates

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20TH ANNUAL

RESEARCH IN THE ROTUNDA

March 6, 2024

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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 Introduction: Karen Walsh, President, Board of Regents

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 20th 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 20 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 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.

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 university system, and our state.

Sincerely,

Jay Rothman President

Universities of Wisconsin

BOARD OF REGENTS

Regent Angela Adams

Regent Robert Atwell

Regent Amy Blumenfeld Bogost, Vice President

Regent Evan Brenkus

Regent Héctor Colón

Regent Mike Jones

Regent Jim Kreuser

Regent Edmund Manydeeds III

Regent John W. Miller

Regent Cris Peterson

Regent Joan Prince

Regent Ashok Rai

Regent Jennifer Staton

Regent Mark Tyler

Regent Jill Underly

Regent Dana Wachs

Regent Karen Walsh, President

Regent Kyle M. Weatherly

CHANCELLORS

Chancellor James Schmidt
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University of Wisconsin-Milwaukee

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Chancellor Lynn Akey University of Wisconsin–Parkside

Chancellor Tammy Evetovich University of Wisconsin–Platteville

Chancellor Maria Gallo
University of Wisconsin–River Falls

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.

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly
Joseph Mondloch	UW-Stevens Point	1	24 71
Haoran Wei	UW-Madison	2	27 80
Erin Giese	UW-Green Bay	3	19 56
Robert Howe	UW-Green Bay	3	30 88
Keir Wefferling	UW-Green Bay	3	30 90
Nicole Hayes	UW-Stout	4, 16, 81	10 29
Keith Gilland	UW-Stout	4, 16	10 29
Julia Chapman	UW-Stout	4, 16	10 29
Matthew Winden	UW-Whitewater	5	16 46
John Stoll	UW-Green Bay	5	30 88
Emily Tyner	UW-Green Bay	5	30 88
John Berges	UW-Milwaukee	6	4 10
Patrick Forsythe	UW-Green Bay	7	30 88
Tisha King-Heiden	UW-La Crosse	8, 15	32 94
Daniel Isermann	UW-Stevens Point	10	24 71
Saleh Alnaeli	UW-Stout	11	10 29
Ahmed Elmagrous	UW-Stout	11	10 29
Keith Wojciechowski	UW-Stout	11	10 29
Zhaohui Li	UW-Parkside	12	22 64
Kevin Cullen	WI Maritime Museum	13	9 25
Russ Kashian	UW-Whitewater	14	28 83
Lesley Mayne	UW-Eau Claire	17	23 67
Karsten Powell	UW-Eau Claire	17	23 68
Patricia Cleary	UW-Eau Claire	18	31 91
Kirstin Rossi	UW-Eau Claire	19	31 91
Ryan Weichelt	UW-Eau Claire	20	31 91
Rachel Pierce	UW-Eau Claire	21	31 91
Lorraine Smith	UW-Eau Claire	21	23 67
Hyoseok (David) Hwang	UW-Eau Claire	22	31 91
Alison Jane Martingano	UW-Green Bay	23, 26	2 88
Allen Huffcutt	UW-Green Bay	24	2 5
Zhuoli Axelton	UW-Green Bay	25	30 88
Gaurav Bansal	UW-Green Bay	25	30 88
Sawa Senzaki	UW-Green Bay	27	1 2
Dianne Murphy	UW-Green Bay	28	6 18
David Radosevich	UW-Green Bay	28	30 88
Rebecca Abler	UW-Green Bay,	29	9 25
	Manitowoc Campus		

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly
Richard Hein	UW-Green Bay,	29	9 25
	Manitowoc Campus		
Melissa Bingham	UW-La Crosse	30	32 95
Heather Walder	UW-La Crosse	31, 34	32 95
Bryan Kopp	UW-La Crosse	32	32 96
Elizabeth Peacock	UW-La Crosse	33	32 95
Cord Brundage	UW-La Crosse	35	32 94
Christopher Choi	UW-Madison	36	26 76
Mary Wyman	UW-Madison	37	26 77
Victor Zavala	UW-Madison	38	27 79
Laura Hernandez	UW-Madison	39	27 79
Maichou Lor	UW-Madison	40	26 7
Zhiyuan Yu	Johns Hopkins	40	26 78
Seth Pollak	UW-Madison	41	26 77
Abbie Klein	UW-Madison	41	26 77
Taufeeque Ali	UW-Milwaukee	42	7 19
Xiaohua Peng	UW-Milwaukee	42	8 23
Elizabeth Drame	UW-Milwaukee	43	6 16
Shelley Lund	UW-Milwaukee	44	7 19
Alita Burmeister	UW-Milwaukee	45	4 10
Nathaniel Stern	UW-Milwaukee	46	7 19
Pamela E. Harris	UW-Milwaukee	47	28 84
Christopher Hays	UW-Milwaukee	48, 49	20 58
Christopher ridys	at Washington County	40, 43	20 30
Gregg Jamison	UW-Milwaukee	48, 49	15 45
G1 C66 Julii3011	at Waukesha	40, 43	15 45
Ryan Allred	UW Oshkosh	50	18 54
Justyna Olszewska	UW Oshkosh	51	18 54
Maria Graf	UW Oshkosh	52	18 54
Marianne Johnson	UW Oshkosh	53	18 54
Melissa Gregg	UW-Parkside	54	21 62
Ignacio Rivero Covelo	UW-Parkside	55	8 23
Ilirian Dhimitruka	UW-Parkside	56	22 64
Jessica Orlofske	UW-Parkside	57	21 62
Erin Hillard	UW-Parkside	58	22 66
	UW-Parkside	56 59	22 64
Christopher Noto	UW-Platteville		
Ryan Haasl Gretchen Bohnhoff	UW-Platteville	60	17 49 17 49
		61	
Soma Chattopadhyay	UW-Platteville	62	17 49
Evan Larson	UW-Platteville	63	17 49
James Riser	UW-Platteville	63	17 49
Jenna Zucker	UW-Platteville	64	17 49
Chance Huberty	UW-Platteville	65	17 49
Muthusubramanian	UW-Platteville	65	17 49
Venkateshwaran	LINA DL		27 24
David Olson	UW-Platteville	66	27 81
	Baraboo Sauk County		

Faculty Adviser	Campus	Poster	Legislative District Senate/Assembly
Timothy Lyden	UW-River Falls	67	10 30
Blair Troudt	UW-River Falls	68	10 30
Lowell McCann	UW-River Falls	69	30 88
Andrew Haveles	UW-River Falls	70	10 30
Lori Swanson	UW-River Falls	71	30 89
Chris Hergenrader	UW-River Falls	72	31 93
Shelly Volsche	UW-River Falls	72	10 30
Brian Barringer	UW-Stevens Point	73	24 71
Logan Brice	UW-Stevens Point	73	21 72
Laura Cole	UW-Stevens Point	73	24 71
Ann Impullitti	UW-Stevens Point	73	24 71
Shannon Riha	UW-Stevens Point	73	24 71
Bryant Scharenbroch	UW-Stevens Point	73	24 70
Nikolaus Butz	UW-Stevens Point	74, 78	24 71
Brett Barker	UW-Stevens Point	75	29 85
Qiang Sun	UW-Stevens Point	76	24 71
Sarah Orlofske	UW-Stevens Point	77	24 70
Jason Riddle	UW-Stevens Point	77	24 71
Michael Tetzlaff	UW-Stout	79	10 29
Jennifer Grant	UW-Stout	80	10 29
Nicole Hayes	UW-Stout	4, 16, 81	10 29
Kimberly Zagorski	UW-Stout	82	10 29
Courtney Juelich	UW-Stout	83, 84	10 29
Tina Lee	UW-Stout	83, 84	10 29
Kristopher McConnell	UW-Superior	85	25 73
Kyle Roskoski	UW-Superior	86	25 73
Joel Sipress	UW-Superior	87	25 73
Mike Maguire	UW-Superior	88	25 73
Sergei Bezrukov	UW-Superior	89	25 73
David Potter	UW-Superior	90	25 73
Steven Girard	UW-Whitewater	91	16 47
Ellen Davis	UW-Whitewater	92	11 33
Prajukti Bhattacharyya	UW-Whitewater	93	11 31
Ozgur Yavuzcetin	UW-Whitewater	93	11 31
Brandon Thomas	UW-Whitewater	94	33 98
Ashley Barnes-Gilbert	UW-Whitewater	95	11 31
Courtney Wilt	UW-Whitewater	96	5 31
Matthew Wolfgram	UW-Whitewater	96	16 48
Tom Klubertanz	UW-Whitewater at Rock County	97	15 44

STUDENT PRESENTERS BY CAMPUS

Poster Number and Poster Title

Student Name, Hometown

FRESHWATER COLLABORATIVE RESEARCH FELLOWS

1 Adsorption of PFAS in Nanoporous Solids

Anna Hahn, UW-Stevens Point, Stevens Point, WI Jackson Mikel, UW-Stevens Point, Black River Falls, WI Olivia Stellpflug, UW-Stevens Point, Omro, WI

2 Analyzing the Viability of Surface-Enhanced Raman Spectroscopy for the Accessible Detection of Toxic "Forever Chemicals" (PFAS) in Drinking Water

Andrew Glasgow, UW-Madison, Madison, WI Co-author: Hanwei Wang

3 Coastal Bird Use of Small Stream Mouths Along the Western Lake Michigan Shoreline

Sarah Baughman, UW-Green Bay, Sheboygan, WI

4 Comparing the Effects of Restoration Age on Stream Ecosystems and Community Dynamics

Casie Kopischke, UW-Stout, Eagan, MN

5 Economic Impacts of Wisconsin Fishing Supported by the Freshwater Resources of Lake Michigan and Bay of Green Bay

Alaina Jacobs, UW-Whitewater, Sun Prairie, WI Brooke Bauer, UW-Whitewater, New Berlin, WI Clare O'Donnell, UW-Whitewater, Whitewater, WI Madeline Murnion, UW-Green Bay, Green Bay, WI

6 Finding Relationships Between Length, Mass, Carbon, Nitrogen, and Protein in the Invasive Crustacean *Hemimysis anomala*

Noah Schrodt, UW-Madison, River Forest, IL

7 Lake Sturgeon Larval Production in the Upper Menominee River Lauren Klawiter, UW-Green Bay, Seymour, WI

Co-authors: Steve Hughes, Zach Nordstrom

8 Overstimulation of the Innate Immune Response by the Neonicotinoid Pesticide Thiamethoxam: How Does This Contribute to Observed Toxicity in Fish?

Nicole Kooij, UW-La Crosse, Sun Prairie, WI

10 Sex-Based Spawning Behavior Differences in Lake Michigan Walleye Carly Phalen, UW-Madison, Reedsburg, WI

11 Smart Farming and Precision Agriculture D

Aidan Drew, UW-Stout, Lake Mills, WI Josh Pederson, UW-Stout, Oronoco, MN

Student Name. Hometown

12 Sorption of Anionic Dye Alizarin Red S from Solution by Carbonate Mineral **Dolomite**

Anna Bowman, UW-Parkside, Libertyville, IL

- 13 Steamer NIAGARA: Her Demise, Her Artifacts, and Her Significance Nick Quaney, UW-Milwaukee, Auburn, KS
- 14 The Cost of Clean Water: An Efficiency Analysis of Wisconsin's Water Utilities Arnish Gupta, UW-Whitewater, Frisco, TX
- 15 The Neonicotinoid Pesticide Imidacloprid Has the Potential to Influence Fish Populations by Interfering With the Immune Response Allie Fowle, UW-La Crosse, Menomonee Falls, WI
- 16 Urban Stream Corridor Restoration Effects on Sediment Loading Kal Breeden, UW-Stout, Lakeville, MN

UW-EAU CLAIRE

17 Communication Ability Profile for Employees (CAPE): Connecting Employers and Coworkers as Communication Partners With Employees With Disabilities

Gianna Kornaus, Oneida, WI Kendall Monson, Chippewa Falls, WI

18 Comparison of Overwater and Overland Meteorology and Ozone Pollution Along the Shore of Lake Michigan as Measured by Uncrewed Aerial Systems

Darby Schabacker, Janesville, WI

Co-authors: Kelly Koerber, Autumn Sivilay, Aka Torti, Kevin Wangen

19 Designing a Space to Support Sensory Regulation Within the Children's Museum of Eau Claire

Grace Groh, Bay City, WI Rhea Schaberg, Shoreview, MN

20 Perceptions of Sustainable Agriculture in the Chippewa Valley Among Current Farmers

Morgan Dekan, Altoona, WI

21 Preventing NicoTEEN Addiction Through Nurse-Led Education on Vaping: Targeting Youth-Serving Adults

Christina Forman, Edgerton, WI Holly Stanislawski, Appleton, WI

22 Special Purpose Acquisition Company (SPAC) and Investor Sentiment

Moon Jean Cheah, Selangor, Subang Jaya, Malaysia Abbey Lawrence, Menomonie, WI

Co-author: lack Choi

Student Name. Hometown

UW-GREEN BAY

23 Do Empathic People Give More to Charity?

Colton Anderson, Bonduel, WI Ethan Wondrash, Two Rivers, WI

24 Employment Challenges for People with Autism Spectrum Disorder (ASD)

Hannah Baker, Gilman, WI DeNae Bube, Green Bav, WI Megan Dobner, Colgate, WI Mia Laufer, Oshkosh, WI Noah Oltmanns, Reedsville, WI Co-author: Brooke Bayerl

25 Overcoming Employee Resistance to AI: Fostering Trust through Improved **Communication in Pervasive AI Environments**

Krystin Clemo, Green Bay, WI

26 Paws and Reflect: Pet Ownership's Correlation with Empathic Abilities

Makenna Bisch, Pardeeville, WI Maddie Fischer, Neenah, WI

27 The Correlation Between Attachment and Physiological Synchrony Between Parents and Early-to-Middle Age Children

Jaden Kahles, Crivitz, WI

28 The Effects of Covid-19 on College Student Stress and Resources

Erika Kundinger, Auburndale, WI Nevaeh Schmechel, Hudson, WI

UW-Green Bay, Manitowoc Campus

29 Impacts of a Large-Scale Restoration on Phosphorus Loading in Centerville Creek

Elena Damian, Manitowoc, WI Natalie Ford, Manitowoc, WI Samantha Frauenfeld, Manitowoc, WI Taylor Kautzer, Whitelaw, WI Codev Lai, Manitowoc, WI Ashley Muench, Fond du Lac, WI Co-author: Chris Santiago

UW-LA CROSSE

30 A Median Estimator for Three-Dimensional Rotations

Kacie O'Hearn, Hartford, WI

31 Analyzing the Spatial Distribution of Lithics at Frog Bay Tribal National Park Madeline Meltesen, South Elgin, IL

Student Name, Hometown

32 Gone Phishing: A Comprehensive Study of Phishing Prevention Tactics at **UWL**

Anatalia Radoc, Saint Paul, MN

33 How Working Students (Don't) Balance Work and School Sidney Paulson, Onalaska, WI

34 Place-Based Archaeology at the Old Pageant Grounds in Miskwaabikaang (Red Cliff, Wisconsin)

Sabrina Neurock, Bloomington, MN

35 Using Bullfrogs to Understand Brainstem Serotonin Networks and the Role of Nicotine in Sudden Infant Death

Kelsi Bellisle, Oregon, WI

UW-MADISON

36 Developing a Wireless Wearable Localization System to Monitor Dairy Cattle Heat Stress Related Behaviors in Real Time

Trey Standiford, Madison, WI

37 Effective Inclusion of Family Caregivers into the Mental Healthcare Team for Older Veterans with Memory Loss: Clinician Perspectives

Madeleine Allen, Imperial Beach, CA Co-author: Hayley Rai

38 Emerging Chemical Engineering Approaches for Recycling Hard-to-Recycle **Plastics**

Evan Erickson, Brookfield, WI Co-author: liaze Ma

39 Molecular Effects of Selective Serotonin Reuptake Inhibitors on the Mammary Gland and Bone Resorption

Sophia Schoenfeld, Waterford, WI

40 "No One Talks About It": Understanding Hmong Women's Perinatal **Experiences**

Shoua Xiong, Milwaukee, WI

41 The Effects of Social Connectedness: From Public Housing and Vouchers to the Classroom

Ellie Thoma, Cottage Grove, WI

UW-MILWAUKEE

42 Cancer Studies: Enhanced Activation of ROS-Responsive Prodrugs via **Prooxidant ROS Generation**

Alexis Peterson, Muskego, WI

Student Name, Hometown

43 Evaluating Black Student Success at a Predominantly White University

Marissa Stewart, Milwaukee, WI Faith Adebogun, Meguon, WI

44 Examining Communication Access for BIPOC Who Use AAC

Gracie Williams, Milwaukee WI

45 Investigating Alternatives to Antibiotics Using Phage

Chloé Skinner, Milwaukee, WI Co-author: Harleen Tewatia

46 Mother Computer: Thinking with Natural and Artificial Intelligences

Collin Chesak, West Bend, WI Em Johns, Milwaukee, WI Gwen Knutson, Brookfield, WI Ambrose Schulte, Milwaukee, WI Co-author: Jack Lehtinen

47 On the Domination Number for a Family of Semiregular Tiling Graphs Iillian Cervantes, Milwaukee, WI

UW-Milwaukee at Waukesha

48 Forensic Analysis of Replica Skeletons

Xavier Arbelo, Hales Corners, WI Miya Skinkis, Menomonee Falls, WI

49 The UWM at Waukesha Field Station Farmstead Historical Archaeology Project: New Insights on Past Behavior from Material Culture

Jadon Thornton, UW-Milwaukee at Washington County, Hartford, WI

UW OSHKOSH

50 Does This Count as Phubbing?: The Role of Bias and Attributions on Perceptions of Phone Usage During Face-to-Face Conversations

Olivia Klessig, Howards Grove, WI

Co-authors: Brook Branscombe, Ashley Plageman, Peyton Sherry

51 The Ideal College in Current Students' Perception

Lorena Reid, Fond du Lac, WI Co-author: Makaylee Stewart

52 Racial and Ethnic Concordance Between Latino Patients and Health Care Providers in the American Midwest

Iuan Padilla Mendez, Milwaukee, WI

53 Richard T. Ely's Census of Public Utilities

Kaleb Walter, DePere, WI

Student Name, Hometown

UW-PARKSIDE

54 An EEG Investigation of Sleep Quality, Memory, and Executive Function

Pasquale Chianello, Kenosha, WI Tyler Helgesen, Kenosha, WI Jose Herrera, Kenosha, WI Christopher Weiss, Kenosha, WI

55 Disentangling How Projections from the Ventral Pallidum to the Shell of the Nucleus Accumbens Regulate Non-Homeostatic Feeding

Markie Peroutka, Pleasant Prairie, WI Zach Wilson, Kenosha, WI Co-authors: Megane Burrow, Ari Hjelmeseth, Miranda Johnson, Hedi Morris, Arvan Patel

56 Microwave-assisted Synthesis of Fluorescent 8-aryl-7-deazaguanines

Madeline Herbrechtsmeier, Pleasant Prairie, WI Elise Zevitz, Mount Pleasant, WI Co-author: Hunter Cheney

57 Monitoring Bumblebee Populations on UW-Parkside's Campus

Hailey Fee, Racine, WI Abby Lentz, Waterford, WI Natalie Meyer, Kenosha, WI Hannah Palmen, Kenosha, WI

58 Parent-Child Weight and Diet Talk: The Impact of Body Image and the Parent-Child Relationship

Erik Johnson, New Lenox, IL Dijana Mitrovic, Hales Corners, WI

59 "Walk This Way" or That Way? Analyzing Shoulder Range of Motion in the Dinosaur Protohadros and Its Implications for Motility

Caleb Neill, Pleasant Prairie, WI

UW-PLATTEVILLE

60 Accuracy of Merlin ID App

Naomi Cobb, Platteville, WI

61 Characteristics of Polymer Modified Bentonites Under Variable Chemical Conditions

Grace Lewis, Oconomowoc, WI Kristin Muench, Lancaster, WI Jenna Springer, Florence, WI Nate Strandberg, Viola, IL

Student Name, Hometown

62 Interplay of Assembly Conditions in Polyelectrolyte Nanofilms Used for Drug **Delivery Applications**

Nathan Francisco, Madison WI Joe Sommers, Deforest, WI Alaina Wolter, Montgomery, IL

- 63 Submerged Treasure: Dendroprovenancing Lake Superior Sunken Timbers Elisabeth Winkler, Platteville, WI
- 64 The Impact of Race on Willingness to Punish and Punishment Severity Madison Rouse, Platteville, WI
- 65 Understanding the Genetic Basis of How Legumes Associate With Symbiotic Rhizobia

Melina Debroux, Nashotah, WI Anna Hagemann, Monroe Center, IL Mackenzie Kraico, Hillsboro, WI Jamie Voegeli, Madison, WI Lauren Young, Davenport, IA

UW-Platteville Baraboo Sauk County

66 The Role of GEFmeso in the Formation of Drosophila Neuronal Active Zones Katelyn Haschke, New Lisbon, WI Tyler Schrumpf, Dubuque, IA

UW-RIVER FALLS

67 A Comparative 2D/3D Approach to Study the "Morphology of Motility" in **Breast Cancer Cells**

Nhi Nguyen, Hudson, WI

- 68 An Electrochemical Analysis of Pencil Graphite Electrodes for the Replacement of Paraffin Impregnated Graphite Electrodes Hailey Beilke, Big Lake, MN
- 69 Numerical Modeling of a Gyroid Composite's Damping Characteristics Jordan Cioni, Green Bay, WI
- 70 Reconstructing Late Pliocene and Pleistocene Paleoenvironments Using **Taphonomy**

Katelyn Marano, New Richmond, WI

71 Teacher and Speech Language Pathologist (SLP) Use and Perspectives on Telegraphic Speech With Children Who Are Deaf and Hard of Hearing Lindsey Johnson, Green Bay, WI

Student Name, Hometown

72 The Effect of Working With Therapy Dogs in the Canine Inspired Change Program on In-Person Communication and Connection Between Same Age Adolescents Model

Chase Syverud, Waunakee, WI Co-authors: Emma Nackers, Challis Prohaska

UW-STEVENS POINT

73 A Compost Application Rate for Sustainable Hemp Agriculture in Wisconsin

Maya Desai, Bowler, WI

Natalie Gruben, Stoughton, WI

Alaina Hart, Fond du Lac, WI

Svdnev Paoli, Kronenwetter, WI

Addison Pfeil, Nekoosa, WI

Rosalind Remsen, Stevens Point, WI

Gregor Willms, Augusta, WI

Co-authors: Grace Geils, Ben Jore, Ben Loosen, Ben Opaneye, Danielle Singkofer

- 74 Empowering Wisconsin Communities From Within: Harnessing Asset-Based Community Development (ABCD) for Sustainable, Locally Driven Progress Anetha Vogele, New Lisbon, WI
- 75 Gold Mountain in the Pinery: Chinese Americans in Rural Wisconsin, 1875-1940

Iarita Bavido, Stevens Point, WI

- 76 How Certain Genes in the Stewart's Wilt Causal Pathogen Pantoea stewartii Affect the Pathogen Spread and Biofilm Formation in Sweet Corn Kade Fink, Cross Plains, WI
- 77 Preliminary Results for Quantifying Ectoparasite Diversity and Prevalence in Northern Saw-whet Owls (Aegolius acadicus) in Central Wisconsin

Sophie Hauser, Tony, WI Dana Lotz, Milwaukee, WI

Sophie Reid, Plainfield, WI

78 Wisconsin Financial Literacy Education: Are Students Prepared for the Complexities of Financial Decision Making?

Henry Niedbalski, Wisconsin Rapids, WI

UW-STOUT

79 Kintsugi 3D Viewer: User-Centric Design for Cultural Heritage Accessibility

Isabel Smith, Greendale, WI

Co-authors: Tyler Betanski, Jacob Buelow

Student Name, Hometown

80 Protein Structures of Prion Disease

Ava Cinealis, Sheboygan, WI

81 Temporal Analysis of Toxin-Producing Cyanobacteria Ethan Kalin, Maplewood, MN

82 The Influence of Trust in Science and Political Leaning on Perceptions of Drinking Water Quality

Genevieve Czaplewski, Grand Island, NE

83 What Do Americans Know? A Study on the Relationship Between Students' U.S. Civic Knowledge and Their Demographics Emma Nuechterlein, Kewaunee, WI

84 Will College Students Agree with Political Opinions Along Party Lines? lack Brown, Spring Valley, WI

UW-SUPERIOR

- 85 Evaluation of Gal4-Induced Cell Death in the Ovary of the Fruit Fly Niyoosha Abdollahpour, Superior, WI
- 86 Exploratory Analysis on Fashion Industry and Its Environmental Effect Tamami Igeta, Superior, WI
- 87 Ojibwe Spiritual Practices from the 1930s-1978 Dillion Krisik, Bayfield, WI
- 88 Slip Glazes With Wild Clay Evaline Britton, Superior, WI
- 89 Spatial Gesture Recognition With Machine Learning Hayk (Aik) Arzumanyan, Superior, WI
- 90 The 'Troubles' in Music Sami Keller, Brule, WI

UW-WHITEWATER

91 Nanostructured Zinc Oxide Gas Sensors

Nicholas Barmore, Evansville, WI Foster Boom, Pleasant Prairie, WI Spencer Cooper, East Troy, WI

92 Reshaping the Anatomy and Physiology Classroom: Using Virtual Cadaver Software to Improve Lab Practical Readiness

Mia Ciancio, Sharon, WI

Student Name. Hometown

93 Simulating Conditions of Slope Failure in the Lab with Sand and Water Using a Multimodal Monitoring Device for Data Collection

Heriberto Patino Luna, Janesville, WI Blake Stephens, Mukwonago, WI Co-authors: Jenna Lambert, Corban Larson, Miles McIntosh, Dean Wink

94 Time Perception of Affordances: In Relation to the Action Boundary

Benjamin Friedl, East Troy, WI Co-authors: Lana Behmke, Jackson Schnabel

95 Trans-itioning Academia: Trans & Gender-expansive College Students' **Experiences Across Disciplines**

Jesse Alonzo, Clinton, WI

96 UW-W Participatory Action Research for College Students with Disabilities

Odin Ehrets, Stoughton, WI Kennedy Vahovick, New Berlin, WI Bella Zeit, Wadsworth, IL

UW-Whitewater at Rock County

97 Collection, Rearing, and DNA Barcoding of Undescribed Wisconsin Mayflies in the Genus Tricorythodes (Ephemeroptera: Leptohyphidae)

Ashley Duffey, Janesville, WI Kirsten Shuler, Janesville, WI Cade Spoden, Janesville, WI

STUDENT PRESENTERS BY WISCONSIN LEGISLATIVE DISTRICT

	ate/Assembly	Student Presenter	Campus	Poster	
1	1	Emma Nuechterlein	UW-Stout	83	
1	2	Kaleb Walter	UW Oshkosh	53	
1	2	Ethan Wondrash	UW-Green Bay	23	
2	4	Madeline Murnion	UW-Green Bay	5	
2	5	Lauren Klawiter	UW-Green Bay	7	
2	5	Gianna Kornaus	UW-Eau Claire	17	
2	6	Colton Anderson	UW-Green Bay	23	
2	6	Maya Desai	UW-Stevens Point	73	
3	8	Juan Padilla Mendez	UW Oshkosh	52	
5	13	Evan Erickson	UW-Madison	38	
5	13	Gwen Knutson	UW-Milwaukee	46	
5	15	Brooke Bauer	UW-Whitewater	5	
5	15	Kennedy Vahovick	UW-Whitewater	96	
6	17	Shoua Xiong	UW-Madison	40	
6	18	Marissa Stewart	UW-Milwaukee	43	
7	19	Nick Quaney	UW-Milwaukee	13	
7	19	Jillian Cervantes	UW-Milwaukee	47	
7	19	Em Johns	UW-Milwaukee	46	
7	19	Chloé Skinner	UW-Milwaukee	45	
7	19	Ambrose Schulte	UW-Milwaukee	46	
7	19	Gracie Williams	UW-Milwaukee	44	
8	22	Megan Dobner	UW-Green Bay	24	
8	22	Allie Fowle	UW-La Crosse	15	
8	22	Kacie O'Hearn	UW-La Crosse	30	
8	23	Faith Adebogun	UW-Milwaukee	43	
8	23	Dana Lotz	UW-Stevens Point	77	
8	24	Miya Skinkis	UW-Milwaukee	48	
			at Waukesha		
9	25	Elena Damian	UW-Green Bay,	29	
			Manitowoc Campus		
9	25	Natalie Ford	UW-Green Bay,	29	
			Manitowoc Campus		
9	25	Samantha Frauenfeld	UW-Green Bay,	29	
			Manitowoc Campus		
9	25	Taylor Kautzer	UW-Green Bay,	29	
			Manitowoc Campus		
9	25	Codey Lai	UW-Green Bay,	29	
			Manitowoc Campus		
9	25	Noah Oltmanns	UW-Green Bay	24	

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9	26	Sarah Baughman	UW-Green Bay	3
9	27	Olivia Klessig	UW Oshkosh	50
9	27	Ava Cinealis	UW-Stout	80
10	28	Katelyn Marano	UW-River Falls	70
10	29	Kal Breeden	UW-Stout	16
10	29	Casie Kopischke	UW-Stout	4
10	29	Abbey Lawrence	UW-Eau Claire	22
10	29	Josh Pederson	UW-Stout	11
10	29	Ethan Kalin	UW-Stout	81
10	29	Genevieve Czaplewski	UW-Stout	82
10	30	Nevaeh Schmechel	UW-Green Bay	28
10	30	Nhi Nguyen	UW-River Falls	67
11	31	Clare O'Donnell	UW-Whitewater	5
11	31	Arnish Gupta	UW-Whitewater	14
11	31	Jesse Alonzo	UW-Whitewater	95
11	32	Mia Ciancio	UW-Whitewater	92
11	33	Bella Zeit	UW-Whitewater	96
11	33	Ashley Duffey	UW-Whitewater	97
		, ,	at Rock County	
12	36	Jaden Kahles	UW-Green Bay	27
12	36	Jenna Springer	UW-Platteville	61
13	37	Joe Sommers	UW-Platteville	62
13	38	Aidan Drew	UW-Stout	11
14	42	Makenna Bisch	UW-Green Bay	26
15	43	Kelsi Bellisle	UW-La Crosse	35
15	43	Christina Forman	UW-Eau Claire	21
15	43	Natalie Gruben	UW-Stevens Point	73
15	43	Odin Ehrets	UW-Whitewater	96
15	44	Darby Schabacker	UW-Eau Claire	18
15	44	Heriberto	UW-Whitewater	93
		Patino Luna		
15	44	Kirsten Shuler	UW-Whitewater	97
			at Rock County	
15	44	Cade Spoden	UW-Whitewater	97
15	45	Nicholas Barmore	UW-Whitewater	91
16	46	Alaina Jacobs	UW-Whitewater	5
16	46	Nicole Kooij	UW-La Crosse	8
16	46	Ellie Thoma	UW-Madison	41
16	48	Jamie Voegeli	UW-Platteville	65
17	49	Naomi Cobb	UW-Platteville	60
17	49	Kristin Muench	UW-Platteville	61

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17	49	Nate Strandberg	UW-Platteville	61
17	49	Alaina Wolter	UW-Platteville	62
17	49	Elisabeth Winkler	UW-Platteville	63
17	49	Madison Rouse	UW-Platteville	64
17	49	Anna Hagemann	UW-Platteville	65
17	49	Lauren Young	UW-Platteville	65
17	50	Carly Phalen	UW-Madison	10
17	50	Mackenzie Krajco	UW-Platteville	65
17	50	Katelyn Haschke	UW-Platteville	66
			Baraboo Sauk County	
17	50	Anetha Vogele	UW-Stevens Point	74
18	52	Ashley Muench	UW-Green Bay,	29
			Manitowoc Campus	
18	52	Alaina Hart	UW-Stevens Point	73
18	52	Lorena Reid	UW Oshkosh	51
18	53	Mia Laufer	UW-Green Bay	24
18	53	Olivia Stellpflug	UW-Stevens Point	1
19	55	Maddie Fischer	UW-Green Bay	26
19	56	Holly Stanislawski	UW-Eau Claire	21
20	59	Jadon Thornton	UW-Milwaukee	49
			at Washington County	
20	60	Collin Chesak	UW-Milwaukee	46
21	61	Markie Peroutka	UW-Parkside	55
21	61	Madeline	UW-Parkside	56
		Herbrechtsmeier		
21	61	Caleb Neill	UW-Parkside	59
21	61	Foster Boom	UW-Whitewater	91
21	62	Elise Zevitz	UW-Parkside	56
21	62	Hailey Fee	UW-Parkside	57
21	62	Abby Lentz	UW-Parkside	57
21	62	Sophia Schoenfeld	UW-Madison	39
22	64	Anna Bowman	UW-Parkside	12
22	64	Zach Wilson	UW-Parkside	55
22	64	Natalie Meyer	UW-Parkside	57
22	64	Hannah Palmen	UW-Parkside	57
22	64	Erik Johnson	UW-Parkside	58
22	65	Pasquale Chianello	UW-Parkside	54
22	65	Tyler Helgesen	UW-Parkside	54
22	65	Jose Herrera	UW-Parkside	54
22	65	Christopher Weiss	UW-Parkside	54
23	67	Kendall Monson	UW-Eau Claire	17

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23	68	Morgan Dekan	UW-Eau Claire	20
23	69	Jackson Mikel	UW-Stevens Point	1
24	71	Anna Hahn	UW-Stevens Point	1
24	71	Rosalind Remsen	UW-Stevens Point	73
24	71	Jarita Bavido	UW-Stevens Point	75
24	72	Addison Pfeil	UW-Stevens Point	73
24	72	Sophie Reid	UW-Stevens Point	77
24	72	Henry Niedbalski	UW-Stevens Point	78
25	73	Niyoosha Abdollahpour	UW-Superior	85
25	73	Tamami Igeta	UW-Superior	86
25	73	Evaline Britton	UW-Superior	88
25	73	Hayk (Aik) Arzumanyan	UW-Superior	89
25	73	Sami Keller	UW-Superior	90
25	74	Dillion Krisik	UW-Superior	87
26	76	Trey Standiford	UW-Madison	36
26	77	Andrew Glasgow	UW-Madison	2
26	77	Madeleine Allen	UW-Madison	37
26	77	Noah Schrodt	UW-Madison	6
26	78	Nathan Francisco	UW-Platteville	62
27	79	Chase Syverud	UW-River Falls	72
27	80	Kade Fink	UW-Stevens Point	76
27	81	Tyler Schrumpf	UW-Platteville	66
			Baraboo Sauk County	
28	82	Isabel Smith	UW-Stout	79
28	83	Alexis Peterson	UW-Milwaukee	42
28	83	Spencer Cooper	UW-Whitewater	91
28	83	Benjamin Friedl	UW-Whitewater	94
28	84	Xavier Arbelo	UW-Milwaukee	48
			at Waukesha	
28	84	Dijana Mitrovic	UW-Parkside	58
29	86	Erika Kundinger	UW-Green Bay	28
29	86	Sydney Paoli	UW-Stevens Point	73
29	87	Hannah Baker	UW-Green Bay	24
29	87	Sophie Hauser	UW-Stevens Point	77
30	88	Krystin Clemo	UW-Green Bay	25
30	88	Jordan Cioni	UW-River Falls	69
30	89	Lindsey Johnson	UW-River Falls	71
30	90	DeNae Bube	UW-Green Bay	24
31	91	Moon Jean Cheah	UW-Eau Claire	22
31	91	Rhea Schaberg	UW-Eau Claire	19
31	92	Gregor Willms	UW-Stevens Point	73

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31	93	Grace Groh	UW-Eau Claire	19
31	93	Hailey Beilke	UW-River Falls	68
31	93	Jack Brown	UW-Stout	84
32	94	Sidney Paulson	UW-La Crosse	33
33	97	Blake Stephens	UW-Whitewater	93
32	95	Madeline Meltesen	UW-La Crosse	31
32	95	Sabrina Neurock	UW-La Crosse	34
32	95	Anatalia Radoc	UW-La Crosse	32
33	99	Grace Lewis	UW-Platteville	61
33	99	Melina Debroux	UW-Platteville	65















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