

Rachel Watson



- Director of the University of Wyoming (UW) Science Initiative's Learning Actively Mentoring Program
- Senior Lecturer, Division of Kinesiology and Health & Microbiology Program, Co-lead of the Domestic and International Nordic Ski Training & Coaching Program
- Program Director for the Wyoming Inclusive Excellence 3 Initiative funded by a grant to the University of Wyoming from the Howard Hughes Medical Institute through the Science Education Program
- Director of the UW Queer Studies Minor, School of Culture, Gender and Social Justice
- Co-coach of the men's and women's Nordic Ski Team

A pluriverse scholar, teacher, educational developer, and coach

University of Wyoming Science Initiative, Division of Kinesiology & Health, Microbiology Program
SIB 3017E • Department 4325 • 1000 E. University • Laramie, WY 82071-2000
(307) 760-2942 • email: rwatson@uwyo.edu

EDUCATION

- 2012 ABD, Instructional Technology and Adult Education, University of Wyoming (UW).
2001 M.S., Molecular Biology, University of Wyoming, Thesis: *Conformational Changes in Pediocin AcH upon Vesicle Binding and Approximation of the Membrane-Bound Structure in Detergent Micelles*
1998 B.S., Chemistry, University of Denver, Denver, CO.

COURSES TAUGHT

EDSE 4900/5900: Best Practices Active Learning, HP 4976: Honors Independent Study, MICR 4321: Transdisciplinary Microbiology Capstone Course, KIN 4071: The Science and Art of Nordic Ski Coaching and Racing, ENR 4890/5890/KIN 4071: Earth as Body/Body as Planet, KIN 5900: Practicum in College Teaching, CHEM 4400/5400: Biological Chemistry, KIN 4071/ENR 4890/5890: Dysbiosis to Pluriversebiosis, CHEM 4920: Spec. Problems: Learning Assistant, MOLB 5900: Practicum in College Teaching, MOLB/MICR 2021-01: General Microbiology Lecture, MOLB/MICR 2021-10, 11 & 12: General Microbiology Lab, MOLB 4850: Undergraduate Teaching Internship

SELECT TEACHING AWARDS

- 2023, Certificate of Mentorship for contributing as a mentor to the Young Southeast Asian Leaders Initiative (YSEALI). A program sponsored by UW, WyoGlobal, The UM, and the United States Department of State.
2023, Honored as a *Favorite Professor* (those who have made an impact) by UW's *Chi Omega* sorority.
2021, Nominated for the Wyoming Department of Education's *WyDEC Innovative Educator of the Year Award*. Statewide, WY.
2021, *Honors College Faculty Mentor Award Nominee*, Mentorship of Honors Capstone Project, Laramie, WY.
2019, 2018, 2017, 2016, 2014, 2013, 2012, 2010, 2009, 2008, 2007, 2006 & 2004, *Mortar Board "Top Prof"*, UW Mortar Board.
2018, *Thumbs Up Award*. UW College of Arts and Sciences.
2017, 2012, 2011, 2007, 2006 & 2005, *Lawrence Meeboer Outstanding Teacher Nominee* (2012, 2011, 2006), and *Recipient* (2005, 2007 & 2017), UW College of Agriculture & Natural Resources.
2016 & 2009, *Recognition of Excellence in Teaching Non-Honors Courses*. UW Honors Program.
2016, 2014, 2013, 2012, 2011, 2010 & 2009, *Promoting Intellectual Engagement (PIE) Award*. UW (Ellbogen Center for Teaching and Learning (E-CTL), LeaRN (Learning Resource Network) and Residence Life & Dining).
2012, 2014, & 2015, *Outstanding Advisor Award 2 Time Nominee & Recipient*, UW College of Agriculture & Natural Resources.
2015, *Celebrating Diversity Inspirational Instruction Award*, UW Academic Affairs, Committee on Women and People of Color.
2014, *UW Woman of Distinction Award*, Women's Leadership Conference.
2013 & 2014, *James C. Hurst Each Student – A Person Award Nominee & Recipient* (respectively). UW Student Affairs.
2012, *Nominee for the National Awards Program for Excellence in College Teaching in the Food & Agricultural Sciences*, USDA, National Institute of Food and Agriculture & Natural Resources, Div. of Community and Education, Nation-wide.
2011, *Council for Advancement and Support of Education (CASE) U.S. Professor of the Year Nominee*, Carnegie Foundation for the Advancement of Teaching, Nation-wide.
2011, *John P. Ellbogen Meritorious Classroom Teaching Award*, UW's Highest Teaching Honor.

SELECT PUBLICATIONS

- McBride, R., Singh, R. and Watson, R. M. (2024) "It's a long way from here": Mapping rural-serving community college educators' work across landscapes of practice. *Community College Journal of Research and Practice*. DOI: [10.1080/10668926.2024.2328519](https://doi.org/10.1080/10668926.2024.2328519)
- Watson, R. M., McBride, R. and Singh, R. (2023) The Everyday Work of Rural-serving Community College STEM Faculty: Lessons from an Institutional Ethnography Across Wyoming's Public Institutions. *Thresholds in Education. Special Issue: Contemporary Challenges and Opportunities in Rural Education*, 46:3. <https://academyforeducationalstudies.org/journals/thresholds/thresholds-current-issues/volume-46-issue-3-fall-2023/>
- Watson, R., Nuhfer, E., Cervato, C. and Wangeline, A. (2022) Metacognitive Self-assessment in Privilege and Equity – Part 1 Conceptualizing Privilege and its Consequences. Improve with Metacognition. Blog post August 16, 2022. Available: <https://www.improvewithmetacognition.com/metacognitive-self-assess-equity-p1/>
- Mason, M., Watson, R. M. and Nicholas-Moon, K. (2021) Exploring the Experiences of First-Time Learning Assistants. *Journal on Excellence in College Teaching*. 32:4.
- Watson, R. (with contributions from E. DeWolf and C. Boggs). (2021) Navigating the Canyon to Redefine Belonging as a Metric for Inclusion. *The Physics Teacher*. 59, 588. <https://doi.org/10.1119/10.0006470>.
- Wirth, Karl R., Nuhfer, Edward B., Watson, Rachel M., Fleisher, Steven C., and Bailey, Roxanne. (2021) in Self-Directed Learning: An imperative for education in a complex society. Mentz, Elsa, Laubscher, Dorothy, and Jako Olivier Eds. Chapter 6: *Knowledge Surveys: Supporting Students Along Pathways to Self-Directed Learning with Self-Assessment*. AOSIS Scholarly Books. <https://doi.org/10.4102/aosis.2021.BK279.06>.
- Nuhfer, Ed, Cogan, Christopher, Fleisher, Steven and Rachel Watson. (2019) Knowledge Surveys Two Decades Later: Returning to Our Roots. *The National Teaching and Learning Forum*. Vol 29. Number 1. <https://onlinelibrary.wiley.com/doi/10.1002/ntlf.30224>
- Watson, Rachel M., Edward Nuhfer, Kali Nicholas Moon, Steven Fleisher, Paul Walter, Karl Wirth, Christopher Cogan, Ami Wangeline, and Eric Gaze. "Paired Measures of Competence and Confidence Illuminate Impacts of Privilege on College Students." *Numeracy* 12, Iss. 2 (2019): Article 2. DOI: <https://doi.org/10.5038/1936-4660.12.2.2>
- Watson, R. M., Willford, J.D. and Pfeifer, M. (2018) A cultured learning environment: Implementing a problem and service-based microbiology capstone course to assess process and skill-based learning objectives. *Interdisciplinary Journal of Problem Based Learning (IJPBL)*. Vol. 12, Issue 1, Article 8, March 1, 2018. Available: <https://docs.lib.purdue.edu/cgi/viewcontent.cgi?article=1694&context=ijpbl>
- Watson, R.M. & Boggs, C.N. (contributions by: Bochanski, K.J., Solvang, S., Jech, S. Wiswell, S., Sulser, S.A., Noren, B.) (2016) Climate, competition and curriculum collide: Designing a fully integrated course with authentic research, study abroad and environmental sustainability curriculum components. *Action Research Network of the Americas (ARNA) Journal Proceedings*. Available: <https://sites.google.com/site/arnaproceedings/home/2016-proceedings/watson-and-boggs>
- Favazzo, L., Willford, J.D. and Watson, R. M. (2014) Correlating Student Knowledge and Confidence Using a Graded Knowledge Survey to Assess Student Learning in a General Microbiology Classroom. *Journal of Microbiology and Biology Education*. Vol. 15, Number 2. pp. 251-258. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4278496/>
- Watson, R., Boggs, C & Driscoll, A. (2013). *Is There a Virtual Edge? An Investigation of the Use of Virtual Labs to Supplement Traditional Microbiology Labs*. In . Jan Herrington et al. (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2013* (pp. 2353-2363). Chesapeake, VA: AACE. Retrieved October 26, 2013 from <http://www.editlib.org/p/112298>.

SELECT PRESENTATIONS

- 2024, *Students' Feelings of Classroom Inclusion Depend on Controllable Factors*. Original Lilly Conference on College Teaching. Miami University, Oxford, OH. November 21-23. Accepted.
- 2024, ***Mind, Body, and Spirit: Holistic development supports student-athletes in accessing peak performance***. The Grand Teton Summit - International Perspective on Sport Science and Behavior: Performance, Pedagogy & Principles. Laramie, WY. August 11, invited keynote speaker with Christi Boggs.
- 2024, *Shining a light on rural-serving community college educators' everyday work: An Institutional Ethnography*. The Qualitative Report (TQR) Conference, Fort Lauderdale, FL. February 28, peer reviewed international conference.
- 2023, ***Seeking Solutions to the World's Wicked Problems by Building Community Across K-12, Higher Education, and the Professions***. Wyoming Innovations Statewide Conference. Saratoga, WY. November 3, invited keynote speaker and workshop leader.
- 2023, Watson et al. Using the Environmental Injustice of Owens Dry Lakebed to Inspire Scientific and Participatory Action Student Research at the University of Wyoming. in 2023 ARNA Proceedings, Kaye, C. (Ed). Abstract available: <https://arnawebsite.org/proceedings/2023-2/>. Website showcasing the work: <https://www.uwyonordic.com/environment--natural-resources-class.html>
- 2022, *A Different Lens: Sci-Art Collaboration on the Beauty of the Micro and Macro Environment of the Owens Lakebed*. A Transdisciplinary Showcase. UW Art Museum, Laramie, WY. December 15, with Erin Bentley, Tristan Duke, Andrew

- Siegel, Rebecca Watson and the students of the transdisciplinary microbiology Capstone Course and the High School 3-D art and science courses.
- 2022, *A Transdisciplinary Capstone Course Benefits Community Partners and Allows Students to Communicate Research, Gain Professional Skills and Experience Growth*. Original Lilly Conference on College Teaching: "Evidence-Based Teaching and Learning." Miami University, Oxford, OH. Accepted for presentation in November, with Ella DeWolf.
- 2022, *Exploring Elite Cross-country Skiers' Perceptions of the COVID-19 Pandemic and its Impacts on their Training, Racing and Perceived Physical and Emotional Wellness*. "United States Collegiate Ski and Snow Sport Conference". Minneapolis, MN. June 11, with John Henry Paluszek, Silas Goetz, Jamison Peacock, Kaj Taylor, Matthew Joseph Williams and Christine Boggs.
- 2022, ***Growing Discovery to Include Teaching and Learning – Evolving Assessment from SoTL to Educational Research*. University of Wyoming Assessment Academy. Laramie, WY. March 3, invited keynote speaker.**
- 2022, *Skiing to Learn Science, Racing Towards Planetary and Human Health*. World Classroom invited speaker. Rowan University, South Jersey, NJ. February 17.
- 2021, [The Impact of More Frequent Use of Knowledge Survey on Gains in Student Learning](#). Original Lilly Conference on College Teaching: "Evidence-Based Teaching and Learning." Miami University, Oxford, OH. November 20, with McKensie Phillips.
- 2021, [Participating in Multi-year Learning Opportunities Enhances Connectivity of Social Networks and Transforms Educators](#). Original Lilly Conference on College Teaching: "Evidence-Based Teaching and Learning." Miami University, Oxford, OH. November 19, with Christine Boggs and Sierra Jech.
- 2021, *The Numeracy of Self-Assessment: Learned Consequences and Rich Opportunities*. National Numeracy Network Conference, Online, February 28, with Edward Nuhfer, California State University; Steven Fleisher, California State University Channel Islands; Karl Wirth, Macalester College; Rachel Watson, University of Wyoming; Paul Walter, St. Edwards University; Christopher Cogan, Memorial University of Newfoundland; Lauren Scharf, U.S. Air Force Academy; Kali Nicholas Moon, Respect Academy; Cinzia Cervato, Iowa State University; Eric Gaze, Bowdoin College; Patrick McKnight, George Mason University; Matt Rowe, University of Oklahoma. Available: https://youtu.be/wcvN1CfO_6o
- 2020, *Assessment of Student Learning: Groups' Self-Assessment Ratings Confirm Surprisingly Accurate Agreement with Demonstrated Competency Scores*. American Association of Behavioral and Social Sciences Poster Presentation. Las Vegas, NV. February 25, with Edward Nuhfer, Steven Fleisher, and Paul Walter.
- 2019, *Envisioning Planet-Body-Mind: Wyoming Scholar-Athletes Implement Course-based Action Research Using Social Justice Theories to Reframe Environmental Degradation*. ARNA 2019 Conference. Repoliticizing P/AR: From Action Research to Activism. Montreal, Quebec, Canada.
- 2019, ***Shifting Student Motivation from Making Dollars to Making Change*. A TEDx Talk. available at: <https://youtu.be/PjtsszwHL8w>**

Presentations prior to 2019 are available upon request.

SELECT GRADUATE STUDENT RESEARCH ADVISEMENT

- Erholtz, G. 2025, "The World Needs Less Cowboys": The UW Varsity Ski Team, Examining the hierarchy of NCAA collegiate athletics and what happens to the 'have-nots' in times of crisis. (MS). In progress.
- Paluszek, J.H. 2023, *Exploring Graduate Student Success: A Qualitative Phenomenological Study Looking at Master's and Doctoral Science Students' Successes and Challenges*. (MS). [Available on ProQuest](#).
- Mason, M. 2019, *Exploring the Impact of a Learning Assistant Program on LAs and their Mentors: A Qualitative Case Study*. (MS)
- Nicholas-Moon, K., 2018, *Examining science literacy levels and self-assessment ability of University of Wyoming students in surveyed science courses using the Science Literacy Concept Inventory with expanded inclusive demographics*. (MS)

SELECT UNDERGRADUATE & COURSE-BASED (CURE) STUDENT RESEARCH ADVISEMENT

- Williams, R., Gracia-Salinas, G., Yeager, K. & Groves, E. (2023-Present). *Wyoming Tick Blitz: Launching a Citizen Science Initiative*. Course-based Research and Senior Honors Thesis.
- Kraemer, S. (2021-Present). *From Planetary to Human Dysbiosis: Exploring elite cross-country skier's perceptions on the use of beta-2 agonists as a response to air quality*. Wyoming Research Scholars Program (WRSP).
- Xiaoyang, L. *Grit, the Key to Success: A Study of the Predictive Effect of Grit on the Success of Nordic Ski Racers*. International Nordic Ski Training Program (2023). Course-based Research.
- Leland, C. (2023). *Do students feel more confident in their curriculum with learning assistants (LAs) in the classroom?* Senior Honors Thesis.
- Anderson, M. Billman, B., Garfield, J. Lira, M. and Walsh, S. (2022). *Returning Agency to Owens Dry Lakebed through Exploration of the Microbial, Chemical and Art-making Capacity of a Desiccated Site*. Course-based Research.
- Romanjenko, B. (2021). *Correlating Diet and Food Access Data to SARS-CoV-2 Outcomes in Wyoming Counties*.

- Guille, L. (2021). *Assessing the Attitudes, Knowledge, and Behaviors of Wyoming Healthcare Practitioners toward Genetic Medical Practices: Current Positions and Potential Improvements*. IRB approved survey and interview study. Senior Honors Thesis.
- Bronner, A., Spencer, J. and Guille, L. (2020). *COVID-19 Deaths are Under-reported in Wyoming*. Course-based Research.
- Welsh, J. (2019-2020). *Transdisciplinary Knowledge Creation is Anything but Rubbish: Connecting Microbial, Middle School, University, City and Business Communities in an Effort to Remediate an Old Wyoming Landfill*. Participatory Action Research Supported by the Learning Actively Mentoring Program, and The College of Agricultural and Natural Resources. Senior Honors Thesis (Given Honors College Thesis Award).
- Clark, C., Cherry, A., Miller, D. (2019) *Riverton Landfill Surface Soil Chemistry & Microbiology Support Downgradient Phytoremediation Location*. Course-based Research.
- Fairbourn, L.J. (2016-2018) *Bacterial Cellulose: Determining Fiber Properties and Surmising Application Potentials as they Relate to the Textile Industry*. Research supported by the Wyoming Research Scholars Program (WRSP) and the McNair Scholars Program.
- Dinneen, P. (2017) *Voices of Wyoming Landscapes: Agricultural Traditions and Living Wisdom*. Presented at the ARNA 2017 Conference, *Participation and Democratization of Knowledge: New Convergences for Reconciliation*. June 2016. Cartagena, Colombia. Finalist for the Phi Beta Kappa Excellence in the Liberal Arts Undergraduate Research Award.
- Zarzycka, A (O). (2017) *Applying Change Theory when making Kombucha at the Albany County Downtown Clinic*. Senior Honors Thesis.
- Baird, A. Jech, S., Lawson, M. Rose, H. (2015) *Beneficial Effects of Autoclaved Growth Substrates for Oyster Mushroom Cultivation at a Small Community Farm*. Poster (Implemented COM3 Course 2015) Awarded 1st place at the Rocky Mountain Branch American Society for Microbiology Conference in Denver, CO
- Bochanski, K.J. (2014) *Identifying Native Plant Species for Uptake and Retention of Uranium from a Mill Tailings Radiation Control Act Site (UMTRCA) in Riverton, Wyoming*. Unpublished Research Thesis Supported by EPSCoR and the Berry Biodiversity Grant.

SELECT EDUCATIONAL/FACULTY & INSTRUCTIONAL DEVELOPMENT

- 2024, Designed, developed, and implemented a holistic experiential learning and place-based program for faculty and graduate students from Shanghai University of Sport, Chinese University of Hong Kong, University of Macau, University of Utah, University of Texas, and University of Wyoming attending the *Grand Teton Summit - International Perspective on Sport Science and Behavior: Performance, Pedagogy & Principles*.
- 2024, Trained as a facilitator for the NSF-funded Inclusive STEM Teaching Project (ISTP).
- 2023, Proposed, funded, designed, developed, and implemented a holistic training for *School of Culture, Gender and Social Justice* Instructors in Active, Inclusive Pedagogies entitled *Building Community through Transformative Pedagogy*.
- 2023, Utilized pilot learning community experience and research findings to evolve the design of the Inclusive Excellence Learning Community for Wyoming Community Colleges (Laramie County Community College, Western Wyoming College, Eastern Wyoming College and Casper College).
- 2022-Present, Community Building lead for the IMPACT STEM Transfer National Learning Community funded by Howard Hughes Medical Institute (HHMI) as a part of the Inclusive Excellence 3 (IE3) Initiative.
- 2020-Present, Designed and developed the interactive [LAMP Active Learning Spectrum](#).
- 2020-Present, Established *LAMP Coffee & Curriculum*, weekly educational development program during which LAMP-trained educators showcase varying active learning strategies that they have implemented and assessed.
- 2019-Present, *Design and Development of the University of Wyoming - Shanghai University of Sport Nordic Ski Training Program (UW-SUS NSTP)*, A network of faculty, graduate students and undergraduate students who study, research and train through integrated academic and Nordic ski international exchanges.
- 2018-Present, *Design and Development of the “Leaving the Light On” Educator’s Learning Community (ELC)* for prior LAMP Fellows. One goal of this group is to catalyze continued transformation to learner-centered classroom.
- 2017-Present, *Supervision of Design, Development, and Implementation of an undergraduate learning assistant (LA) program (“LAMP Scholars”) and corresponding course (Best Practices in Active Learning)*.
- 2015-Present, *Design, Development, Implementation and Assessment of an Extended, Holistic Active Learning Faculty / Graduate Student / Post-Doctoral Fellow Mentoring Program*. University of Wyoming Science Initiative [Learning Actively Mentoring Program \(LAMP\)](#) / [Science Initiative Summer Institute \[SI\]²](#) and yearlong training.
- 2013-Present, *Design, Development, Implementation and Assessment of [Microbiology Degree Capstone Course \(CURE\)](#)*
- 2013-Present, *Integrated Curriculum Development for Study Abroad / Ski Competition*. Design and development of integrated curriculum (competition, environmental science and social justice-based) for student-athletes.
- 2020-2022, *Development and Implementation of a Statewide Virtual Outreach Program (“[The Virtual Roadshow](#)”) in which undergraduate researchers and learning assistants facilitate virtual active learning in K-16 classrooms and the community.*

2018-2022, *Redesign of Biological Chemistry (CHEM 4400/5400)* using Problem-posing and Team-based learning (TBL).
 2018, *University of Wyoming Accessibility Initiative: Implementing Universal Design for Learning (UDL), ECTL.*
 2016-2021, *Development and Implementation of a Statewide Outreach Program ("The Roadshow") in which undergraduate researchers and learning assistants facilitate active learning in K-16 classrooms*, University of Wyoming Science Initiative.
 2016-2019, *Development and Implementation of a LAMP scholarship program that funded K-16 educators to travel to the Wyoming Department of Education "Roadmap to STEM" Conference.*
 2015-2018, *Redesign of General Microbiology (MOLB/MICR 2021)*, Fully flipped classroom / full-scale active learning.
 2004-2018, *Virtual Online Lab Development: The Virtual Edge*. Co-development of online General and Medical Microbiology Labs for use with UW course MOLB/MICR 2021 [2210] and MOLB/MICR 2240
http://www.uwyo.edu/virtual_edge/index.htm & <https://thevirtualedge.weebly.com/>.

Full Listings of Workshops, Institutes and Conferences that I have developed and implemented can be requested.

SELECT GRANTS (FUNDED/AWARDED PROJECTS AS PI)

2023 Office of Diversity, Equity and Inclusion Grant to fund holistic training for School of Culture, Gender and Social Justice instructors in active, inclusive pedagogies. \$11,000.
 2022 Howard Hughes Medical Institute Inclusive Excellence Challenge Program Learning Community Grant, Phase II grant awarded to full national cohort. \$8,800,000. Through collaborative work the national learning community distributed this to partner institutions such as those in Wyoming.
 2022 Howard Hughes Medical Institute Inclusive Excellence Challenge Program Learning Community Grant, Phase II grant awarded to University of Wyoming. \$823,668. This includes \$353,002 in funds to be used to support activities of the full national learning community.
 2022 Open Educational Resources Grant to fund the creation of a film documentary on Collaborative Communication. University of Wyoming's Libraries. \$3,000.
 2021 Interagency Agreement between the Wyoming Department of Health and the University of Wyoming to fund the transdisciplinary, computational research of Microbiology Capstone undergraduate researchers. \$27,480 of \$636,692 administered for the Capstone project.
 2020-2023 Howard Hughes Medical Institute Inclusive Excellence Challenge Program Learning Grant, Pre-proposal was advanced and we became members of the National Learning Community for Inclusive Excellence. National Learning community membership is an opportunity to be a part of the national dialogue to make the award process more inclusive. \$30,000.
 2012-2016, Service-Learning Mini-Grant, University of Wyoming Service, Leadership and Community Engagement Office. \$750.
 2015, WyoCourses Advising Pilot Grant, University of Wyoming WyoCourses, \$500.

Grants prior to 2015 and grants on which I was Co-PI, Co-I and unfunded grants can be requested.

SELECT SERVICE

Next Generation General Education Experiential Learning Sub-committee member (2024).
Next Generation General Education Innovative Pedagogy Sub-committee lead (2023).
Assessment Coordinator for the College of Health Science (2022-present)
University of Wyoming's Higher Learning Commission's Assessment Committee (2022-present). Committee interfaces with national HLC representatives.
University Assessment Planning Committee (2021-present)
Next Generation General Education Committee (2020-present).
University Assessment Coordinators Committee (2020-present).
Co-Program Director for the Domestic and International Nordic Ski Training Program (NSTP) (2019-present)
Founding member and current board member of the Skiers Nordic of Wyoming (SNOW) Nonprofit (2018-present).
<https://www.snowyoming.org/>
Coach/Organizer of the Maggi and Nick Murdock Free Community Ski Clinic (2016-present).
<https://uwnordic.weebly.com/murdock-ski-clinic.html>, Laramie, Wyoming.
Trash-2-Treasures. Environmental justice through reclaiming / recycling of furniture (2012-present). UW Nordic Ski Team, Service Learning and Community Engagement (SLCE) and Sustainability Club, Laramie, Wyoming.
Head Coach of Team USA at five World University Games in Turkey, Italy, Slovakia, Kazakhstan, and Russia (2011, 2013, 2015, 2017, and 2018). Named Head Coach for the 2021 World University Games in Switzerland which was canceled due to COVID. Named Head Coach for the 2025 World University Games that will be held in Italy.
Coach/Organizer/Lecturer, High School Summer Ski Camp (2003-present). Skiers Nordic of Wyoming, High Plains Nordic Ski Association, Laramie High School Ski Team, Centennial and Laramie, Wyoming.
Head of the Chemistry Student Learning Assessment Committee (2019-2022).