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Education

Colorado State University, Fort Collins, CO. Ph.D. Natural Resource Management-Recreation Resources. May 2001.

University of Maine, Orono, ME. M.S. in Botany and Plant Ecology. December 1988.

State University of New York at New Paltz, New Paltz, NY. B.A. in Biology. May 1984.

Professional Appointments and Experience

Professor with Tenure, Recreation Resources Management, Department of Environment and Society, Utah State University, Logan UT. July 2016 to date.

Associate Professor with Tenure, Recreation Resources Management, Department of Environment and Society, Utah State University, Logan UT. 2011-2016.

Assistant Professor, Recreation Resources Management, Department of Environment and Society, Utah State University, Logan UT. 2007- 2011.

Faculty Associate, The Ecology Center, Utah State University, Logan UT. 2008 to date.

Faculty Associate, The Institute of Outdoor Recreation and Tourism, Utah State University. 2018 to date.

Assistant Professor of Environmental Studies, St. Lawrence University, Canton, NY. 2003 to 2007.

Dean of the College and Teaching Faculty, Sterling College, Craftsbury Common, VT. 2001 to 2003.

Research Scientist and Program Director, National Outdoor Leadership School, Lander, WY. 1993 to 2001.

Research Associate and Support Scientist, Colorado State University, Natural Resource Ecology Laboratory, Fort Collins, CO. 1989 to 1993.

Pomology Research Technician, Hudson Valley Research Laboratory, Cornell University, Highland, NY. 1985-1986.

Seasonal Climbing Ranger and Naturalist, Mohonk Preserve, New Paltz, NY. 1983-1984 full time; 1984-1986 part time.

Awards and Recognitions

Fulbright Scholar- Norway Program. Research and Teaching Scholar at the University in Tromsø, Norway. 2013-2014.

Utah State University, Quinney College of Natural Resources. Researcher of the Year 2015.

Colorado State University, Baggley Ph.D. Fellow 2000-2001.

Administrative Committees and Appointments

Sterling College

Dean of the College, 2001-2003
Curriculum Committee Chair, 2001-2003
Student Life Committee Chair, 2001-2003
NEASC Accreditation Review Lead

St. Lawrence University

College Conservation Committee, 2005-2007
Environmental Policy Assistant Professor Search Committee, 2005
Chair, Outdoor Council. 2003-2004.

Utah State University

Recreation Resources Assistant Professor Search Committee (Price), 2009
Recreation Resources Assistant Professor Search Committee (Moab), 2010
Recreation Resources Assistant Professor Search Chair (Moab), 2011
QCNr Quinney Graduate Fellowship Committee, 2012
QCNr Undergraduate Scholarship Committee, 2012
University Benefits and Faculty Welfare Committee, 2014-present
Dr. Roslyn Brain Tenure and Promotion Committee, 2012-present
Dr. Robyn Cuervorst Tenure and Promotion Committee (Chair), 2011-2014
Institute of Outdoor Recreation and Tourism Director Search, 2015
QCNr Ombudsperson, 2014 to date.
Dr. Jordan Smith Tenure and Promotion Committee, 2016-2020
Recreation Resources undergraduate major advisor 2015-present
USU Faculty Senator- 2017 to 2021
Recreation Resources Assistant Prof. Search Chair (Moab), 2018
Recreation Resources Assistant Prof. Search Committee (Logan), 2019
USU Faculty Senate Executive Committee , 2019-2020
Recreation Resources Assistant Prof. Search Committee (Logan), 2021
Dr. Jordan Smith Promotion Committee , 2021-2023
Dr. Brooke Osborne Tenure Advisory Committee (Chair), 2022 to present
Dr Terry Dial Promotion Advisory Committee, 2022 to present
Dr. Dennis Newell Promotion Advisory Committee, 2022 to present
Dr. Edd Hammill Promotion Advisory Committee, 2022 to present
Dr. Daniel MacNulty Promotion Advisory Committee, 2020 to present
Dr Anna Miller Promotion Advisory Committee, 2023 to present
Quinney College of Natural Resources Curriculum Committee, 2023 to present
USU Faculty Senate Alternate- 2023 to present
USU Moab Faculty Search Committee 2023-2024

Administrative Committees and Appointments, continued

Sterling College August 2001 to August 2003

Craftsbury Common, Vermont

Dean of the College

- Chief academic officer responsible for the development, implementation, and evaluation of all academic programs
- Supervised all faculty, conducted teaching evaluations and performance reviews
- Managed \$600,000 annual instructional budget
- Chaired College leadership team for the New England Association of Schools and Colleges re-accreditation review
- Provided leadership for the long-term curriculum strategic planning process

National Outdoor Leadership School May 1993 to May 2001

Lander, WY

Research Program Scientist

- Designed and implemented long-term strategic plan for NOLS Research
- Managed \$90,000 annual research budget
- Generated many research proposals and achieved over \$125,000 of grant funding
- Instructed field courses in resource management and planning for management professionals in Alaska, Wyoming and Chile
- Supervised 5 graduate students, annual field assistants, laboratory and office help, and 3 full time employees
- Authored research publications, reports and articles

Teaching Experience

Utah State University

Fall 2007 to Date

Logan, UT

- Courses Taught on an Annual Basis
Wildland Recreation Behavior (ENVS 4500), Behavioral Aspects of Wildland Recreation (ENVS 6500), Recreation Ecology (ENVS 6400), Natural Resource Interpretation (ENVS 4600/6600). Fundamentals of Recreation Resources Management (ENVS 3300).
- Visiting Scientist Mentorship
Natalia Panakeeva, Fulbright Scholar, Russia Program (2017)
Alexandra Tomczyk and Marek Ewertowski, Bekker Program, Poland. 2019-2020
- Graduate Student Mentorship as Major Professor
Bruck, Jessica MS student (Current). Understanding spatial distribution of visitor experience attributes in Pitkin County, Colorado.
Blair, D. MS student (2015). Understanding visitor spatial patterns in Grand Teton National Park
Creany, Noah. MS (2019). An examination of the comparative trail behavior of Strava users. Currently a Ph.D. student.
D'Antonio, Ashley. MS (completed 2010) Ph.D. (Completed 2015). Modeling off-trail visitor use in dispersed recreation settings
Furr, Gabriella. MS (2019). The influence of travel mode on visitor experience outcomes in Glacier Bay National Park.

- Goonan, Kelly. Ph.D. (completed 2016). An examination of visitor standards and resource conditions in national parks settings in Alaska
- Graham, Robin. MS student. (completed 2021) The effects of landscape attributes on visitor spatial movements in Rocky Mountain National Park
- Nesbitt, Jordan. MS student (current). Norms of resource condition in an urban proximate protected area.
- Sisneros-Kidd, Abby. Ph.D. (completed 2018) Assessment of the effectiveness of visitor education at limiting spatial impacts
- Spernbauer, Bettina. MS Fulbright student (Austria). Understanding and managing CO2 emissions from NPS transportation alternatives.
- Puikkonen, Karina. MS student (2011) Assessment of applied trampling disturbance to riparian vegetation communities in Yosemite National Park
- Van Deursen, Jake. MS student (current). The influence of specialization in visitors' spatial behavior.
- Vaughn, Dusty. MS (completed 2011) assessment of Colorado's wilderness areas: manager perceptions and remoteness modeling
- Westrom, Shannon. MS Student (current). Visitor resource preferences at Glacier Bay National Park.
- Graduate Thesis/Dissertation Committee Mentorship
 - Hestetune, Adam MS (completed 2019). Department of Environment and Society. A study of contingent travel behaviors and substitution patterns on Minnesota's North Shore
 - Hoffman, Scott Ph.D. (not completed) Department of Environment and Society
 - Joy, David. Ph.D. (completed 2020). Department of Teacher Education and Leadership
 - Kalnicky, Emily. Ph.D. (completed 2012) Department of Environment and Society
 - Lamborn, Chase. Ph.D. (completed 2022) Department of Environment and Society
 - Lee, Lori. MA (completed 2015) English Department, Utah State University.
 - McBride, Randall. MS Student. Department of Wildland Resources Utah State University
 - Munoz, Lorena. Ph.D. Student, (completed June 2020) Department of Arctic and Marine Biology, The Arctic University of Norway
 - Otto, Natalie. MS Ecology (completed 2020). Department of Environment and Society. Invasive plant ecology in protected areas.
 - Pettebone, David. Ph.D. (completed 2011). Human Dimensions of Natural Resources Department, Colorado State University.
 - Unger, Joseph. MS (completed 2012) Department of Environment and Society, Utah State University
 - Sausser, Brooke. MS (completed 2019) Recreation resources Management. Department of Environment and Society, Utah State University
 - Sinram, Brigid. MS (completed 2011) Department of Environment and Society, Utah State University
 - Smith, Lynda. MS (completed 2016) Landscape Architecture and Environmental Planning, Utah State University.

St. Lawrence University

Canton, NY

Fall 2003 to Spring 2007

- Courses Taught on and Annual Basis
 - Introduction to Environmental Studies (ENVS 101), Recreation and Public Lands (ENVS 249), Ecotourism (ENVS 363), Principles of Environmental Interpretation

(ENVS 347), Research Seminar in Wildland Recreation (ENVS 361), Research Seminar in Sustainable Design (ENVS 361)

St. Lawrence University, continued

- Senior Research Mentoring:
 - Knickerbocker, Leah. 2004. Climber's perspectives of impacts in the Adirondacks
 - Smith, Katherine. 2004. Adirondack climber's perspectives of resource impacts
 - Pfeiffer, Meghan. 2004. Ecotourism and wildlife conservation in Kenya
 - Guy, Marc. 2004. Adirondack backcountry skiers' knowledge of terrain hazards
 - Davis, Seth. 2005. Campsite assessments using digital image analysis
 - Baker, Elizabeth. 2005. Environmental education in North Country schools
 - Wilson, Richard. Meanings of outdoor education experiences at SLU. (Fall 2006)
 - Angus, Jon. Ecological impacts on mountain summits in the Adirondacks (Fall 2006).

Sterling College

Craftsbury Common, Vermont

Fall 2001 to Spring 2003

- Courses Taught
 - Wildland Stewardship (NS/SS 370), Advanced Research Methods for Environmental Studies (NS450), GPS and GIS Applications in Environmental Science (AS 342). Statistics and Research Design (NS 330), Rock Climbing and Ropes Techniques (AS236), Introduction to Ice Climbing (AS222), Experiential Education I, II, and III (Outdoor education classes)
- Senior thesis supervision:
 - Goodwin, C. 2002. A vernal pool identification process in Northern Vermont
 - Twombly, A. 2002. Predicting snow pack using the SYNThERM model.
 - Dahlmeier, W. 2003. Moose browse on balsam fur regeneration in Vermont

Colorado State University

Fort Collins, Colorado

Fall 1998 to Spring 2001

- Courses Taught: Recreation Measurements (RR 376) and Wilderness Management (NR 460 and NR 352)

Alaska Pacific University

Anchorage, AK

June 1996

- Course Taught: Introduction to Coastal Field Ecology (16 day sea kayak course)

Front Range Community College

Fort Collins, CO

Spring 1991

- Course Taught: General College Biology (BIO111)

University of Maine

Orono, ME

Fall 1987- Spring 1988

- Teaching assistant in General Biology

Competitive Grant Awards

Externally Funded Grants: Total Awarded \$~6.5M

2023-24. Pitkin County Open Space Visitor Capacity Study:Phase 2. \$137,000. Project PI. Pitkin County Open Space and Trails.

2022-23. Pitkin County Open Space Visitor Capacity Study:Phase 1. \$52,000. Project PI. Pitkin County Open Space and Trails.

2022. Sand Diego Coast District Use Estimation Study. \$34,000. PI. Coastal Quest.

2021- 2022. Central Wasatch Visitor Use Study: Phase 2. \$197,366. Co-I with Drs. Jordan Smith (PI), Anna Miller, and Erin Rivers. Central Wasatch Comission.

2021-2022. Central Wasatch Visitor Use Study: Phase 1. \$37,325. Co-I with Drs. Jordan Smith (PI), Anna Miller, and Danya Rumore. Central Wasatch Comission.

2021-2022. Rocky Mountain National Park Timed Entry System Evaluation. \$36,000. Project PI. National Park Service.

2021-2024. Rocky Mountain Nationla Park Visitor Use Study. \$25,000. Project PI. Rocky Mountain Conservancy.

2021-2024. An assessment of trail management strategies in Orange County parks. \$75,000. Project PI. Natural Communities Coalition/Orange County Parks.

2019-2021. Kenai Fjords Coastal Condition Assessment. Project PI. \$41,000. Kenai Fjords National Park, National Park Service. Project PI.

2017-2024. Recreation use and valuation of the Nature Reserve of Orange County, CA. Natural Communities Coalition. \$850,000. Project PI.

2017-2020. Bear Lake Road Diversion Study. Project PI. \$82,000. Rocky Mountain National Park, National Park Service.

2017-2019. Leah and String Lakes Visitor Use Study at Grand Teton National Park. National Park Service. \$460,000 (USU total \$86,000). Co-I with Dr. Ashley D'Antonio, Oregon State University and Drs. Derrick Taff and Peter Newman, Penn State University.

2016-2020. Glacier Bay National Park Backcountry/Wilderness Visitor Use Study. National Park Service. \$176,000. Project PI.

2016-2017. Understanding and Managing "Wildlife Jams" in National Parks: An Evaluation in Grand Teton NP. University of Wyoming- National Park Service Research station. \$5,000 with Abby Sisnerso-Kidd (graduate student).

2015-2020. Global Connections and Changing Resource Use Systems in the Arctic. National Science Foundation, \$540,000 (USU total \$198,000). Co-PI with Dr. Vera Hausner, Dr. Dorothee Ehrich, Dr. Nigel G Yoccoz (Arctic University of Norway), Dr. Per Fauchald (Norwegian Institute for Nature Research) and Dr. Douglas Clark (University of Saskatchewan).

2015-2017. Visitor Capacities on Longs Peak: a Preliminary Assessment in Rocky Mountain National Park, Colorado. National Park Service, \$29,000, Project PI.

2014-2019. CNH: Soundscapes of Coupled Systems of Biodiversity and Human Experience. National Science Foundation, The Dynamics of Coupled Human and Natural Systems Program. \$600,000 (USU total \$16,132). Co-PI with Drs. J. Barber and C. Francis (Boise State Univ.), Dr. P. Newman (Penn State University).

2014- 2017. An Assessment Of Informal, Visitor Created Trails In Rocky Mountain National Park. National Park Service, \$25,900, Project PI.

2014- 2016. Assessing Spatially Explicit Cultural Ecosystem Services for Adaptive Management in the Alpine North. The Research Council of Norway. \$734,000. Collaborator with Dr. Vera Hausner (PI-University in Tromsø, Norway); Dr. Greg Brown (Griffith University, Australia); Per Fauchald (Norwegian Institute for Nature Research) and Alma Thuestad (Norwegian Institute for Cultural Heritage Research).

2013-2016. Moose-Wilson Corridor Transportation Visitor Use Levels, Patterns and Impacts Data Collection in Grand Teton National Park. National Park Service, \$550,000 (USU total \$384,000). Project PI in collaboration with Dr. Peter Newman, Penn State University and Dr. Kevin Heaslip, Virginia Tech.

2012-2015. Managing Sustainable Recreation and Tourism In The Northern Forest. Northeast States Research Cooperative, USDA Forest Service, \$97,000 (USU total \$43,000). Co-PI with Dr. Robert Manning, University of Vermont.

2012-2013. Campsite Monitoring Analysis and Protocol Development for Glacier Bay National Park. National Park Service, \$23,000. Project PI.

2012-2014. Alternative transportation planning for Colorado Front Range high visitation sites in the Arapaho-Roosevelt National Forest (ARNF). US Department of Transportation, Transit in Parks Program. \$460,000 (USU total \$51,000). Co-PI with Dr. Steve Lawson, RSG, and Dr. Peter Newman, Colorado State University.

2011-2012. Visitor Use and Disturbance in Meadow and Riparian Areas of Yosemite National Park. National Park Service, \$38,000. Project PI.

2011-2013. International Collaboration in Recreation Ecology (Australia). USDA Forest Service, Aldo Leopold Wilderness Research Institute, \$9,500, Project PI.

2009-2014. Assessment of Backcountry Campsite Impacts on the Uinta-Wasatch-Cache National Forest. USDA Forest Service \$9,300, Project PI.

2009-2014. Visitor-based Standards of Resource Conditions in Backcountry Areas of Kenai Fjords National Park. National Park Service, \$20,000, Project PI.

2009-2010. An Assessment of the Extent and Condition of Informal Trails in the Atigun Gorge Area of the Arctic National Wildlife Refuge. US Fish and Wildlife Service, \$35,000, Project PI.

2009-2010. An Assessment of Recreation Impacts in Alpine Areas of Grand Teton National Park. National Park Service \$4,500, Project PI.

2008-2010. Colorado Statewide Wilderness Assessment. USDA Forest Service, \$86,000, Project PI.

2008-2010. Modeling the Effects of Alternative Transportation on Resource Protection and Visitor Experiences in Rocky Mountain National Park. \$426, 000 (USU total \$95,000). Co-PI with Dr. Steve Lawson, Virginia Tech and Dr. Peter Newman, Colorado State University.

2008. Protecting Sensitive Coastal Resources from Backcountry Visitor Impacts in Kenai Fjords National Park, Alaska. National Park Service, \$9,000, Project PI.

2006-2009. Indicators and Standards of Sustainable Recreational Boating on Lake Champlain. Lake Champlain Sea Grant 2005 Research Initiative. \$130,000 (Monz total \$60,000). Co-PI with Dr. Robert Manning, University of Vermont.

2006- 2008. Indicators and Standards of Quality for Sustainable Recreation/Tourism: Research to Support Management of the Northern Forest. Northeast States Research Cooperative, USDA Forest Service, \$85,000 (Monz total \$45,000). Co-PI with Dr. Robert Manning, University of Vermont.

2004-2005. Monitoring Visitor Use and Associated Impacts in The Southwest Alaska National Parks. National Park Service, \$39,500, Project PI.

2002-2004. Visitor Impact In The Coastal and Barrier Island National Parks. National Park Service, \$106,000, Project PI.

2000. Management and Assessment Of Visitor Impacts In Prince William Sound, AK. National Wildlife Foundation, \$12,000, Project PI.

1998. An Assessment of the Chemical Composition Of Lakes in the Wind River Range, Wyoming. The Maki Foundation \$2,000, Project PI.

1994. Protecting Wildlands Through Conservation Education and Research: The Tensleep Project. The Whitehead Foundation, \$114,000, Project PI.

1991. Research Experience for Undergraduates supplement to National Science Foundation Ecosystem Studies Grant "Response of a Temperate Grassland to Ecosystem Change: Importance of Biotic Interactions and Feedbacks", BSR-8818269. \$15,000.

Utah State University Internally Funded Grants

2019-2021. CO₂-e Emissions Generated by Outdoor Recreation and Tourism: From Measurement to Messaging. UAES Seed Grant, \$58,349. Co-I with Dr. Jordan Smith as PI.

2015-2017. Building an Agent-Based Model of Visitor Use in Dispersed Recreation Settings. USU Research Catalyst Grant. \$19,800

2012-2017. Advances in Recreation Ecology and Management in Wildland. McIntyre-Stennis Research Grant. \$20,000.

2010-2012. An Assessment of Visitor Experience and Resource Conditions at the Swaner Eco Center. USU Ecology Center. \$57,900.

2008-2009. Consequences of Alternative Visitor flows and Densities in Rocky Mountain National Park. USU New Faculty Research Grant. \$10,000.

2007-2012. Recreation Ecology and Management in Wildland Ecosystems. McIntyre-Stennis Research Grant. \$23,000.

Publications

Scholarly Works: 188; Total Google Scholar Citations: 6330, h= 36, i10= 75.

Academic Books

1. Hammitt, W.E, Cole, D.N., and Monz, C.A. 2015 *Wildland Recreation: Ecology and Management 3rd edition*. John Wiley & Sons, Oxford.
2. Manning, R.E., Lawson, S., Newman, P., Halo, J. and Monz, C. 2014 *Sustainable Transportation in the National Parks: From Acadia to Zion*. University Press of New England, Lebanon, NH.
3. Manning, R.E., Newman, P., Barber, J., Monz, C., Halo, J, Lawson, S. 2018. *Natural Quiet and Natural Darkness: The "New" Resources of the National Parks*. University Press of New England, Lebanon, NH.
4. Monz, C.A., Cole, D.N., and Hammitt, W.E.. 2025 *Wildland Recreation: Ecology and Management 4th Edition*. John Wiley & Sons, Oxford. *Under contract and in preparation*.

Peer-Reviewed Journal Articles, Book Chapters and Technical Reports

Peer Reviewed Journal Articles in Preparation and Review

1. Creany, N. E., & Monz, C. A. (2024). Linking Visitor Use Management to Social and Ecological Outcomes in Parks and Protected Areas. *Environmental Management, In preparation*.
2. Creany, N. E., Pancake, D., Monz, C. A., & Freimund, W. A. (2024). Leveraging crowd-sourced data for Recreation Use Monitoring: An Application and Evaluation of Strava Metro in urban-proximate Park and Protected Areas. *Journal of Outdoor Recreation and Tourism, In preparation*.
3. Minehart, K., D'Antonio, A., Gutzwiller, K. and Monz, C. 2024. Predicting trail condition using random forest models in urban-proximate nature reserves. *Applied Geography, In preparation*.
4. Nesbitt, J., Monz, C., Creany, N., Gorrell, L., D'Antonio, A., (2024a). Normative evaluations of social and ecological conditions in an urban-proximate natural reserve. *Landscape and Urban Planning. In preparation*.
5. Nesbitt, J., Monz., C., Creany, N., D'Antonio, A., Gorrell, L., (2024b). Influential factors of normative evaluations of social and ecological conditions in an urban-proximate nature reserve. *Journal of Parks and Recreation Administration. In preparation*.
6. Schoenleber, C., D'Antonio, A., Monz, C. (2024). Implications of the spatial overlap between recreation use and sensitive avian wildlife in urban-proximate natural areas in Orange County, CA. *In preparation*.

7. Sisneros-Kidd, A. M. and Monz, C. A. 2024. Characterizing visitor behavior associated with "wildlife jam" events in Grand Teton National Park, USA. *Journal of Park and Recreation Administration*. In revision.
8. Van Deursen, J, Creany, N., Smith, B., Freimund, W., and Avgar, T., Monz, C., 2024. Influences of Recreation Specialization on Activity-Specific Spatial Behavior and Distribution in the Nature Reserve of Orange County, CA. *Applied Geography*, In review
9. Van Deursen, J, Creany, N., Monz, C., Freimund, W., and Avgar, T. 2024. Classifications of Recreation Specialization: Attitudinal and Behavioral Differences Across Specialization Types in the Nature Reserve of Orange County, CA. *Journal of Outdoor Recreation and Tourism*. In review.

Peer Reviewed Journal Articles Published

1. Creany, N. and Monz, C. Understanding visitor attitudes towards managed access reservation systems. 2024. *Journal of Outdoor Recreation and Tourism*. In press.
2. Ferguson L.A., Taff B.D., Blanford JI, Mennitt DJ, Mowen AJ, Levenhagen M, White C, Monz CA, Francis CD, Barber JR, Newman P. 2024. Understanding park visitors' soundscape perception using subjective and objective measurement. *PeerJ* 12:e16592 <https://doi.org/10.7717/peerj.16592>
3. Tomczyk, A.M., Ewertowski, M., Creany, N., Ancin-Murguzur, F. J. & Monz, C. 2023. The application of unmanned aerial vehicle (UAV) surveys to the analysis and monitoring of recreational trail conditions *International Journal of Applied Earth Observation and Geoinformation*, 123, 103474.
4. Lawson, S., Monz, C.A., Larkin, A. 2023. Passive mobile data analysis of visitor use in parks and protected areas: Prospects and challenges. *Journal of Park and Recreation Administration*. 41(4).
5. Sidder, S.A., D'Antonio, A., Hall, T.E., Dinkins, J.B., Bredeweg, E.M., Monz, C.A.. 2023 Can we predict visitor movement? Using step selection function analysis to map high probability camping areas in a remote Alaskan wilderness. *Journal of Landscape and Urban Planning*. 237, p.104796.
6. Spornbauer, B.S., Monz, C., D'Antonio, A. and Smith, J.W., 2023. Factors influencing informal trail conditions: Implications for management and research in Urban-Proximate parks and protected areas. *Landscape and Urban Planning*, 231, p.104661.
7. Lamborn, C.C., Givens, J., Lant, C., Roper, B., Monz, C. and Smith, J.W., 2023. The social-ecological system of the Kenai River Fishery (Alaska, USA). *Journal of Environmental Management*, 331, p.117314.
8. D'Antonio, A., Monz, C. A., Crabb, B., Baggio, J. A., & Howe, P. D. (2022). Proof of concept study using GPS-based tracking data to build agent-based models of visitors' off-trail behavior in nature-based tourism settings. *Applied Geography*, 147, 102771.

9. Spornbauer, B., Monz, C., & Smith, J. W. (2022). The effects and trade-offs of alternative transportation systems in US National Park Service units: An integrative review. *Journal of Environmental Management*, 315, 115138-115138.
10. Baker, J., D'Antonio, A., Monz, C., Taff, D., Rice, W.L., Newton, J., Newman, P., Miller, Z.D. and Freeman, S., 2021. What's 'SUP'with paddlers? Integrating spatial, social, and ecological data to understand behavior among paddlesport users at a popular lake destination. *Applied Geography*, 135, p.102531.
11. Creany, N. E., Monz, C. A., D'Antonio, A., Sisneros-Kidd, A., Wilkins, E. J., Nesbitt, J., & Mitrovich, M. (2021). Estimating trail use and visitor spatial distribution using mobile device data: An example from the Nature Reserve of Orange County, California USA. *Environmental Challenges* (4) 100171.
12. Westrom, S., Creany, N., Monz, C., Miller, A. 2021. The effect of a vehicle diversion traffic management strategy on spatio-temporal park use: A study in Rocky Mountain National Park, Colorado, USA. *Journal of Park and Recreation Administration*. 39(2).
13. D'Antonio, A., Taff, B.D., Baker, J., Rice, W.L., Newton, J.N., Miller, Z.D., Newman, P., Monz, C. and Freeman, S., 2021. Integrating aspatial and spatial data to improve visitor management: Pairing visitor questionnaires with multiple spatial methodologies in Grand Teton National Park, WY, USA. *Journal of Park and Recreation Administration*, 39(1).
14. Smith, J. W., Miller, A. B., Lamborn, C. C., Spornbauer, B. S., Creany, N., Richards, J. C., & Monz, C. (2021). Motivations and spatial behavior of OHV recreationists: A case-study from central Utah (USA). *Journal of Outdoor Recreation and Tourism*, 36, 100426.
15. Schmidt, J., Hausner, V., and Monz, C. 2021. Building adaptive capacity in a changing Arctic by use of technology. *Ecology and Society*. 26(4):1.
16. Sisneros-Kidd, A., D'Antonio, A., Monz, C. 2021. Do differences in motivation result in differences in behaviors? An analysis of urban-proximate park and protected area visitor spatial behavior patterns as a function of visitor motivation type. *Journal of Environmental Management* 280 (2021) 111841
17. Monz, C., Creany, N., Nesbitt, J., Mitrovich, M. 2020. Mobile Device Data Analysis to Determine the Demographics of Park Visitors. *Journal of Park and Recreation Administration*. doi:10.18666/JPra-2020-10541
18. Monz, C., Gutzwiller, K., Brunson, M., Hausner, V., Buckley, R., Pickering, C. 2020. Understanding and managing the interactions of impacts from nature-based recreation and climate change. *Ambio*. 1-13.
19. Minton, E., Sisneros-Kidd, A., and Monz, C. 2020. "Minor Crimes" Against Wildlife: Small Offenses, Lasting Impact, and a Proposed Solution. *Psychology & Marketing*. 37.12 (2020): 1708-1719.
20. D'Antonio, A., Taff, B. D., Baker, J., Rice, W. L., Newton, J.N., Miller, Z. D., Newman, P., Monz, C., & Freeman, S. (2020). Integrating aspatial and spatial data to improve visitor management: Pairing visitor questionnaires with multiple spatial

- methodologies in Grand Teton National Park, WY, USA. *Journal of Park and Recreation Administration*. doi:10.18666/JPra-2020-10501
21. Levenhagen, M., Miller, Z., Petrelli, A., Ferguson, L., Shr, Y-H., Gomes, D., Taff, D., White, C., Frstrup, K., Monz, C., McClure, C., Newman, P., Francis, C., Barber, J. 2020. Ecosystem services provided by soundscapes link people and wildlife. *People and Nature*. DOI: 10.1002/pan3.10156
 22. Hestetune, A., Jakus, P. M., Monz, C., & Smith, J. W. 2020. Climate change and angling behavior on the North shore of Lake Superior (USA). *Fisheries Research*, 231, 105717.
 23. Ancin-Murguzur, F. J., Munoz, L., Monz, C., & Hausner, V. H. (2020). Drones as a tool to monitor human impacts and vegetation changes in parks and protected areas. *Remote Sensing in Ecology and Conservation*, 6(1), 105-113.
 24. Runge, C. A., Hausner, V. H., Daigle, R. M., & Monz, C. A. (2020). Pan-Arctic analysis of cultural ecosystem services using social media and automated content analysis. *Environmental Research Communications*, 2(7), 075001.
 25. Monz, C., Mitrovich, M., D'Antonio, A., and Sisneros-Kidd, A. 2019. Using Mobile Device Data to Estimate Visitation in Parks and Protected Areas: An Example from the Nature Reserve of Orange County, California, USA. *Journal of Park and Recreation Administration* 37 (4), doi: 10.18666/JPra-2019-9899
 26. Pettebone, D., Monz, C., Sisneros- Kidd, A., D'Antonio, A. 2019. Modeling Visitor Use on High Elevation Mountain Trails: An example from Long's Peak in Rocky Mountain National Park, USA. *Journal of Mountain Science*. **16**, 2882–2893 (2019) doi:10.1007/s11629-019-5663-9
 27. Sausser, B., Monz, C., Dorsc, T., and Smith, J.W. 2019. The Formation of State Offices of Outdoor Recreation and an Analysis of their Ability to Partner with Federal Land Management Agencies. *Journal of Outdoor Recreation and Tourism* 27, 100232.
 28. Sisneros-Kidd, A. M., Monz, C.A., Hausner V., Schmidt J., Clark, D. 2019. Nature-based tourism, resource dependency, and resilience of Arctic communities: Framing complex issues in a changing environment. *The Journal of Sustainable Tourism*. 1-18
 29. Rice, W. L., Taff, B. D., Newman, P. B., Miller, Z. D., D'Antonio, A. L, Jenna T. Baker, J. T., Monz, C. A., Newton, J. N.. 2019. Grand Expectations: Understanding Outcome Interference in Grand Teton National Park. *Journal of Park and Recreation Administration*. doi: 10.18666/JPra-2019-9283.
 30. D'Antonio A., Monz, C. Crabb, B., Baggio, J., Howe, P. 2019. Using GPS-based Tracking Data to Build an Agent-based Model of Visitors' Off-Trail Behavior in a Nature-Based Tourism Setting. *Journal of Travel Research*. In Press.
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1. Hunt, H.W., Detling, J.K., Elliott, E.T., Monz, C.A. and Strain, B.R. 1990. The effects of elevated CO₂ and climate change on grasslands I. Response of aboveground primary production in intact sods of native shortgrass prairie. *Bull. Ecol. Soc. Amer.* 71(2) 196.
2. Monz, C.A., D.N. Cole, L.A. Johnson and D.R. Spildie. 1994. Vegetation response to trampling in five native plant communities in the Wind River Range, Wyoming, USA. *Bull Ecol Soc Am* 75(2) 158.
3. Monz, C.A., G.A. Meier, R. C. Buckley, D. N. Cole, J. M. Welker, and W. M. Loya. 1996. Responses of moist and dry arctic tundra to trampling and warmer temperatures. *Bull Ecol Soc Am* 77 (3) 311.

Journal Article Reviews

- Provided peer-reviews of over 130 journal articles since 1995
- Peer reviewed 3 book proposals and two textbooks for Palgrave Publishers in 2019.
- Journals served include *Environmental Management*, *Journal of Environmental Management*, *Biological Conservation*, *Journal of Parks and Recreation Administration*, *Journal of Outdoor Recreation and Tourism*, *Landscape and Urban Planning*, *Mountain Research and Development* and several others.
- Have served as Associate Editor for International Journal of Wilderness since the Journal's inception in 1996
- I generally review 10-12 manuscripts annually

Seminar and Workshop Leadership

Session Organizer. Monitoring and management of outdoor recreation in the urban proximate land preserves in Orange County, CA, USA. MMV Conference, Lillehammer Norway, August 24-27, 2021.

Session Co-Organizer. Transportation planning and research in the National Parks. The George Wright Society Conference, Oakland CA. June 2015.

Session Co- Organizer. Understanding the implications of park transit systems. The George Wright Society Conference, Denver, CO, March 2013.

Workshop Organizer. Integrating recreation ecology, social science and transportation planning in Grand Teton NP. October 2012.

Workshop Organizer. Assessing visitor use and resource impacts in coastal Alaska. June 2012, Glacier Bay National Park, Gustavus, AK.

Conference Co-Organizer. People in parks: Managing the environmental impact of visitors. Griffith University, Gold Coast, Australia. November 2011

Session Organizer. Recreation ecology and visitor impact research: International perspectives. MMV 5 Conference, Wageningen, Netherlands. June 2010.

Co-Organizer. Alaska NPS Regional Indicators and Standards Workshop. April 15-17, 2010, Anchorage AK.

Invited Participant. Yellowstone National Park winter use management science advisory workshop. February, 2010.

Session Coordinator. Recent advances in recreation ecology. 14th International Symposium on Society and Resource Management. June 10-14 2008, Burlington, VT.

Session Coordinator. Recreation ecology and visitor impact research: Past, present and future. Monitoring and Management of Visitor Flows, Rapperswil, Switzerland. September 2006.

Instructor. Hudson Valley Land Managers' Roundtable on Visitor Management and Planning. Tivoli, NY January 13, 2005.

Session Coordinator, Recent Approaches in Visitor Impact Monitoring. George Wright Society Meetings, Philadelphia, PA. March 2005.

Session Coordinator, Future directions in recreation ecology research. George Wright Society Meetings, San Diego, CA. April 2003.

Facilitator, Interagency task force workshop on visitor capacity in park and protected areas. Estes Park, CO. December 4-6, 2000.

Steering Committee and Session Moderator, 1999 Congress on Recreation and Resource Capacity. Snowmass, CO. November 29- December 2, 1999.

Steering Committee and Session Moderator, Wilderness Science in a Time of Change Conference. Missoula, MT. May 24-27, 1999.

Conference Organizer and Proceedings Editor, Recreational Impacts in Alaskan Ecosystems Workshop. University of Alaska, Fairbanks, April 15-17, 1997.

Lead Instructor, Park Monitoring and Planning Workshop, Torres del Paine National Park, Chile. December 1-15, 1996.

Scholarly Presentations¹

- **Monz, C., Creany, N., and Bruck, J.** "Pitkin County, CO Recreation Use Study Assessment of Visitor Survey and Spatial Behavior " Roaring Fork Outdoor Coalition/ Pitkin County Open Space workshop, January 23-25, 2024. Glenwood Springs, CO.
- **Creany, N. and Monz, C. OC** "Parks Trail Use Designation Pilot Project Addendum Report". OC Parks Trail Stewardship Committee Meeting, September 25, 2023.
- **Monz, C.** "Understanding recreation disturbance in remote and urban-proximate settings." State of Washington Department of Fish and Wildlife. October 18, 2023.
- **Monz C.** "Outdoor Recreation and Ecological Disturbance in Western Colorado." Wilderness Workshop, Carbondale, CO. November 29, 2023.
- **Creany, N. and Monz, C.** "Visitor use dynamics in Rocky Mountain National Park under the Timed Entry Permit System." Science Behind the Scenery Webinar Series. March 15, 2022
- **Monz C.** "Outdoor Recreation and Ecological Disturbance on the Colorado Plateau." Public Interest Environmental Law Conference, University of Oregon Law School. March 3, 2022.
- **Creany, N. and Monz, C. OC** "Parks Trail Use Designation Pilot Project Final Report". OC Parks Trail Stewardship Committee Public Meeting, February 22, 2022.
- **Monz, C., Nesbitt, J., Creany, N.** "Annual report of findings to the Nature Reserve of Orange County." December 3, 2021, Irvine, CA
- **Monz, C.** "Understanding recreation disturbance in urban-proximate settings." Pitkin

¹ Presenters are in bold type

County Open Space annual meeting, November 18, 2021, Aspen, CO.

- **Monz, C.** “Outdoor Recreation and Ecological Disturbance on the Colorado Plateau” (Webinar) Southern Utah Wilderness Alliance. Sept 28, 2021
- **Monz, C.** “Using dispersal and confinement strategies for sustainable management of parks and protected areas.” (Webinar) Conservation and outdoor recreation: Challenges and solutions to keeping parks and public lands from being loved to death, Part 2. December 9, 2020.
- **Monz, C.** “The implications of recreation ecology knowledge to park management” (Webinar). Conservation Conversations: Challenges and solutions to keeping parks and public lands from being loved to death, Part 1. October 28, 2020.
- **Creaney, N., Westrom, S., Monz, C.** “The Effect of a Vehicle Diversion on Spatio-temporal Park Use: A Study in Rocky Mountain National Park.” Rocky Mountain National Park 2020 Research Conference, March 10-11, 2020, Estes Park, Colorado.
- **Rice, W., Taff, D., Miller, Z., Newman, P., Newton, J., D’Antonio, A., Baker, J., Monz, C.** “Teton Recon: Mixed-Methods Approaches to Measuring Recreational Ecosystem Services in Grand Teton National Park” 14th Biennial Scientific Conference on the Greater Yellowstone Ecosystem. September 11th – 14th, 2018 Big Sky, Montana.
- **Baker, J., D’Antonio, A., Taff, D., Newman, P., Monz, C., Rice, W., Miller, Z., Newton, J.** “What’s scale got to do with it?: The importance of scale when measuring experience, impacts, and behaviors of users at popular recreation sites” 14th Biennial Scientific Conference on the Greater Yellowstone Ecosystem. September 11th – 14th, 2018 Big Sky, Montana.
- **Sisneros-Kidd, A. & Monz, C.** “Understanding ‘Wildlife Jam’ Events in the GYE: Factors Greater Yellowstone Ecosystem.” 14th Biennial Scientific Conference on the Greater Yellowstone Ecosystem. September 11-14, 2018. Big Sky, MT.
- **Sisneros-Kidd, A. & Monz, C.** “Understanding Visitor Spatial Behavior Associated with “Wildlife Jam” Events: Protected Area Resources as Drivers of Spatial Behavior”, 24th International Symposium on Society and Resource Management. June 17-21, 2018. Snowbird, UT.
- **Ewert, C., Sisneros-Kidd, A., D’Antonio, A., Monz, C., Creaney, N.,** “A GPS-tracking based behavioral analysis of two motivational hiker typologies in Orange County and how these distinct typologies impact sensitive Southern California vegetation and wildlife habitats.” 24th International Symposium on Society and Resource Management. June 17-21, 2018. Salt Lake City, UT.
- **Monz, C., D’Antonio, A., Sisneros-Kidd, A.** “Visitor judgements of resource and experience conditions on the Nature reserve of Orange County, CA.” December 6, 2018, Irvine CA.
- **Monz, C.A.** “Understanding spatial patterns of recreation use and disturbance: Historical and current perspectives”. International Symposium on Society and Resource Management (ISSRM), June 18, 2018, Snowbird, UT.

- **Monz, C., D'Antonio, A., Sisneros-Kidd, A.** "Visitor experience outcomes on the Nature reserve of Orange County, CA. December 5, 2017, Irvine CA.
- **Sisneros- Kidd, A., Monz, C., D'Antonio, A.** "A GPS-based classification of visitors' vehicular behavior in a protected area setting". The 19th George Wright Society Conference on Parks, Protected Areas and Cultural Sites, April 2-7, 2017, Norfolk, VA
- **Graham, R., Monz, C., Sisneros-Kidd, A.** "Effects of landscape attributes on visitor spatial behaviors in protected area settings". The 19th George Wright Society Conference on Parks, Protected Areas and Cultural Sites, April 2-7, 2017, Norfolk, VA
- **D'Antonio, A., Monz, C., Gutzwiller, K.** "Landscape ecology meets recreation ecology: Quantifying broad-scale spatial patterns of wildland recreation disturbance" Ecological Society of America Annual Meeting, August 6-11, 2017, Portland Oregon.
- **D'Antonio, A., Monz, C., Newman, P., Heaslip, K., Taff, D., Noon, D., Newton, J., Kidd, A., Fuentes, A.,** "A collaborative, systems-based approach to visitor use planning: An example from the Moose-Wilson Corridor in Grand Teton National Park." Presentation. 13th Biennial Scientific Conference of the Greater Yellowstone Ecosystem. October 4 - 6, 2016 Jackson, WY.
- **Monz, C., D'Antonio, A., Heaslip, K.** "Trends in Visitor Use and Resource Impacts In The Moose- Wilson Corridor". Grand Teton National Park stakeholders meeting, June 9, 2015, Moose, WY.
- **Monz, C., D'Antonio, A., Lawson, S., Newman, P.** "Ecological aspects of transit services in national parks: a conceptual framework for future research." The 2015 George Wright Society Conference on Parks, Protected Areas and Cultural Sites, March 29-April 3, 2015, Oakland, CA.
- **D'Antonio, A., Monz, C., Newburger, T.** "Dispersed Recreation In Yosemite National Park, CA: Understanding Visitor Use Patterns and the Implications For Management." Lightning Presentation. The 2015 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 29 – April 3, 2015, Oakland, CA.
- **Kidd, A., Monz, C., D'Antonio, A., Reigner, N., Manning, R., Goonan, K., Jacobi, C.** "An Experimental Investigation of the Effect of Minimum Impact Education on Visitor Behavior", George Wright Society Biennial Conference on Parks, Protected Areas, and Cultural Sites. March 29-April 3, 2015, Oakland, CA.
- **Monz, C., Pickering, C., Hadwen, W., Buckley, R.** "Recreation Ecology and National Parks: A State Of Knowledge Review." Science for Parks, Parks for Science Conference, March 25-27, 2015, Berkeley, CA
- **D'Antonio, A., Monz, C., Newburger, T.** "Dispersed Recreation In Yosemite National Park, CA: Understanding Visitor Use Patterns and the Implications For Management." The 2015 Science for Parks, Parks for Science: The Next Century Summit. March 25 – 27, Berkeley, CA.
- **D'Antonio, A., Monz, C., Newburger, T.** "Dispersed Recreation In Yosemite National Park, CA: Understanding Visitor Use Patterns and the Implications For Management." The 2014 North American Congress for Conservation Biology. July 13 – 15, Missoula,

MT.

- **Monz, C.** "Assessment and Monitoring of Visitor Movements Using GPS Technology: Applications In Arctic National Parks." Norwegian National Park managers workshop, May 14, 2014, Alta, Norway
- **Kidd, A., Monz, C., D'Antonio, A., Goonan, K., Manning, R., Reigner, N., Jacobi, C.** "Does Minimum Impact Visitor Education Influence Visitor Behavior? An Experimental Investigation", Northeastern Recreation Research Symposium. April 6-8, 2015, Cooperstown, NY.
- **Monz, C.** "Understanding Visitor Use and Ecological Impacts in Norway's National Parks." 2013 Norway Fulbright Seminar. February 13, 2014, University of Oslo, Oslo, Norway.
- **Monz, C., D'Antonio, A. Lawson, S., Newman, P.** "Ecological Consequences Of Park Transportation Systems in Rocky Mountain National Park." The 2013 George Wright Society Conference. March 11-15, 2013, Denver, CO.
- **D'Antonio, A., Monz, C.** "Understanding Visitor Perceptions of Recreation Resource Impacts: Comparing Climbers and Hiker Perceptions in Joshua Tree National Park, California", The 2013 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 11 - 15, Denver, CO.
- **Monz, C., Newman, P.** "Monitoring and Managing Park Transportation Systems." Grand Teton National Park. December 3, 2012, Jackson, WY.
- **D'Antonio, A., Monz, C.** "Using Traditional Recreation Management Techniques in an Urban-Proximate Natural Area: A Case Study from the Swaner Preserve." Land Trust Alliance Rally. October 1-2, 2012. Salt Lake City, Utah
- **Monz, C.** "Assessment of Resource Impacts in Coastal Ecosystems in Alaska." Glacier Bay National Park. June 6, 2012, Gustavus, AK.
- **Monz, C.** "Assessment and monitoring of recreation impacts in alpine and subalpine areas in Grand Teton National Park." Grand Teton National Park Resource Symposium, Sept. 7-8, 2011.
- **D'Antonio, A., Monz, C.** "Understanding the Visitor Experience in Rocky Mountain National Park." Intermountain Graduate Research Symposium. March 30-31, 2011. Logan, Utah.
- **Goonan, K., Monz, C., Philips, L., Klasner, F.** "Identifying Indicators of Quality for the Backcountry Visitor Experience at Kenai Fjords National Park, Alaska". 2011 George Wright Society Conference, March 14-18, New Orleans, LA.
- **Monz, C.** "Recent Advances In Recreation Ecology Research: Perspectives From The USA." MMV 2010 Conference, Wageningen, Netherlands. May 30- June 4, 2010.
- **Monz, C. and Twardock, P.** "Assessing Resource Conditions and Visitor Preferences of Backcountry Campsites in Western Prince William Sound." MMV 2010 Conference, Wageningen, Netherlands. May 30- June 4, 2010.

- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Taff, D. "An Assessment Of Visitor Perceptions Of Recreation Resource Impacts In The Bear Lake Corridor Of Rocky Mountain National Park." 16th International Symposium on Society & Resource Management. June 6-10, 2010, Corpus Christi, Texas.
- **Anderson, L.,** Manning, R., Monz, C., Goonan, K., Valliere, W. "Social And Ecological Dimensions of Paddling on Lake Champlain". Lake Champlain 2010: Our Lake, Our Future Conference, Burlington, VT, June 7-8, 2010
- **Anderson, L.,** Manning, R., Monz, C., Goonan, K., Valliere, W. "Indicators and Standards of Quality for Paddling on Lake Champlain". 22nd Annual Northeastern Recreational Research Symposium, Bolton Landing, New York, April 11-13, 2010.
- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Taff, D. "An Assessment of Visitor Perceptions of Recreation Resource Impacts In The Bear Lake Corridor Of Rocky Mountain National Park." 2010 Research Conference Rocky Mountain National Park. March 30-31, 2010. Estes Park, Colorado.
- **Monz, C.** and D'Antonio, A. "Recreation Resource Conditions and Visitor Standards in the Bear Lake Corridor of Rocky Mountain National Park." The 2010 Rocky Mountain National Park Research Symposium. March 30-April 1, 2010, Estes park, CO.
- **Van Riper, C.,** Manning, R., Monz, C, Goonan, K. Managing Recreation On Mountain Summits In The Northern Forest. 5th International Symposium on Society and Resource Management, Vienna, Austria, July 5-8, 2009.
- **Monz, C.** and D'Antonio, A. "The Condition of Recreation Resources in the Bear Lake Corridor of Rocky Mountain National Park." Rethinking Protected Areas in a Changing World, The 2009 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 2-6 2009, Portland, OR.
- **D'Antonio, A.,** Monz, C., Lawson, S., Hockett, K., Logan, P., Newman, P., Hallo, J. "Utilizing GPS-based Measurements Of Visitor Behavior in Parks and Protected Areas: Limitations and Opportunities." Rethinking Protected Areas in a Changing World, The 2009 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 2-6 2009, Portland, OR.
- **Van Riper, C.,** Manning, R., Goonan, K., Monz, C. "Tradeoffs Among Resource, Social, and Managerial Conditions on Mountain Summits of the Northern Forest". Rethinking Protected Areas in a Changing World, The 2009 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 2-6 2009, Portland, OR.
- **Monz, C.,** Goonan, K., and Manning, R. "An assessment of Social and Ecological Conditions on Mountain Summits in the Northern Forest". 14th International Symposium on Society and Resource Management People and Place: Linking Culture and Nature. June 10-14, 2008. Burlington, VT.
- **Monz, C.,** Goonan, K., and Manning, R. "Resource Conditions, Visitor Use Patterns And Visitor Perceptions On Mountain Summits In The Northern Forest: A Case Study On

Cascade Mountain, Adirondack Park, NY. Northeast Recreation Research Symposium, March 30-April 1, 2008. Bolton Landing, NY.

- **Monz, C.** "Using Social Science to Inform Recreation Ecology studies: An Example from the Adirondack Park, NY." 12th International Symposium on Society and Resource Management. June 3-8, 2006 Vancouver, BC.
- **Monz, C.** and D'Luhosch, P. "An Image Analysis Method for Recreation Site Assessment". Northeast Recreation Research Symposium, April 9-11, 2006. Bolton Landing, NY.
- **Monz, C.** "Visitor Monitoring Programs: What Do We Measure?" Hudson Valley Land Managers' Roundtable. January 13, 2005. Tivoli, NY.
- **Monz, C.** and D'Luhosch, P. "Establishing A Visitor Impact Monitoring Program; A Case Study From the SW Alaska National Parks." Northeast Recreation Research Conference. April 10-12, 2005. Bolton Landing, NY.
- **Monz, C.** "Developing Indicators For Visitor-Wildlife Interactions: Value, Feasibility And Limitations." The George Wright Society Conference, March 13-18, 2005. Philadelphia, PA.
- **Monz, C.,** and Leung, Y-F. "Assessing Visitor Impact Priorities in the Coastal and Barrier Island Network of the National Park Service". Protecting Our Diverse Heritage: The Role of Parks, Protected Areas and Cultural Sites. The George Wright Society Conference, April 14-18, 2003. San Diego, CA.
- **Monz, C.** "Recreation Ecology Applications In Wilderness Management". Green Mountain College, invited lecture. November 11, 2002.
- **Monz, C.** "Biophysical Indicators in Protected Area Planning." University of Vermont, invited lecture. April 10, 2002.
- **Monz, C.** "Users Perspectives on Resource and Recreation capacity." Plenary session moderator, 1999 Congress on Recreation and Resource Capacity. Snowmass, CO. November 29- December 2, 1999.
- **Monz, C.** "Mitigation and Management of Ecotourism Impacts." 1999 Congress on Recreation and Resource Capacity. Snowmass, CO. November 29- December 2, 1999.
- **Monz, C.,** Cole, D., Roggenbuck, J. "Ecological and Social Consequences of Regulating Group Size in Protected Areas." Session moderator and presenter, 1999 Congress on Recreation and Resource Capacity. Snowmass, CO. November 29- December 2, 1999.
- **Monz, C.,** Cole, D., Roggenbuck, J. "Group Size Regulations In Wilderness: When Are They Needed?" Wilderness Science in a Time of Change Conference. Missoula, MT. May 24-27, 1999.
- **Monz, C.,** T. Pokorny, J. Freilich, S. Kehoe and D. Ayers-Baumeister "Recreational Impact Assessment On The Sweetwater River Project Area" Wilderness Science in a Time of Change Conference. Missoula, MT. May 24-27, 1999.

- **Monz, C.**, and Twardock, P. "An Assessment of Campsite Impacts in Prince William Sound, Alaska. Alaska Wilderness Recreation and Tourism Association annual meeting, Valdez, AK. March 3-5, 1999.
- **Monz, C.** "Impact Assessment and Applications for Land Management". Colorado Fourteeners Conference, Leadville, CO October 6-7, 1997.
- **Monz, C.**, Meier, G., Buckley, R., Cole, D., Welker, J. and Loya, W. "Arctic Tundra: Responses to Human Trampling and Elevated Summer Temperatures" Ecological Society of America 81st annual meeting, Providence, RI. August, 1996.
- **Monz, C.A.**, D.N. Cole, L.A. Johnson and D.R. Spildie. "Vegetation Response To Trampling In Five Native Plant Communities in the Wind River Range, Wyoming, USA." Ecological Society of America 79th annual meeting, Knoxville, TN, August, 1994.
- **Monz, C.**, and Williams, J. "Fragile rivers: Low Impact Techniques And Significant Research Gaps". The North American Interdisciplinary Wilderness Conference, Weber State University, Ogden, UT, November 1993.
- **Monz, C.**, Brame, R., and Henderson, C. "Perspectives on Wilderness Research And Management". Wyoming Conservation Congress, workshop host, Casper, WY, October 1993.
- **Monz, C.**, Hunt, H., Reeves, B. and Elliott, E. "Response of Mycorrhizal Colonization to Elevated CO₂ and Climate Change in *Agropyron smithii* and *Bouteloua gracilis*". 43rd annual AIBS meeting, ESA section, Honolulu, Hawaii. August 1992.
- **Monz, C.** "Climate Change and the Colorado Shortgrass Steppe." First annual meeting of the Society of Environmental Journalists, Boulder, CO. October, 1991.
- **Monz, C.**, Morgan, J., Hunt, H. "The Effects of Elevated CO₂ and Climate Change on the Photosynthetic Response of Blue Gramma and Western Wheatgrass." 42nd annual AIBS meeting, ESA section, San Antonio, TX. August 1991.
- **Monz, C.** and Schwintzer, C. "The Physiology of Spore-Negative and Spore-Positive Nodules of *Myrica gale*." The Seventh International Conference on *Frankia* and Nitrogen Fixation, University of Connecticut, Storrs, CT. August, 1988.

Consultancies

Wilderness Workshop. An analysis of recreation disturbance and impacts to wildlife in western Colorado. 2022-2023

Otak, Inc. Mobile Device Data Analysis of Visitation in Park and Protected Areas: Prospects and Challenges. 2022.

Southern Utah Wilderness Alliance. Analysis of recreation disturbance on the Colorado Plateau. 2019-2021.

Natural Communities Coalition. Various projects including Streetlight analysis, trail impact study design, human use and valuation research for the Nature Reserve of Orange County, California. 2016-2021.

The Access Fund. Development of ecological assessment protocols for rock climbing area management. 2014-2015.

Adirondack Mountain Club. Analysis of photopoint monitoring data. 2010-2011

Industrial Economics, Inc. Trail Conditions Appalachian Trail near Palmerton, PA. 2008-09.

Boulder County, CO Open Space and Mountain Parks visitor use study. 2005.

National Outdoor Leadership School. Research in Wyoming and Alaska. 2001-02.

National Parks Conservation Association. Evaluation of ROMO Wilderness plan. 2001.

National Park Service. National wilderness guidelines for group size management. 2001.

Parks Canada. Gwaii Hanas National Park campsite impact assessment. 1995-1996.

Colorado State University. Great Plains Agroecosystem project. 1994-1995.

Community Service and Involvement

Volunteer and Board Member, Nordic United, Logan Utah. 2008 to 2022.

Board of Directors, Rocky Mountain Field Institute, Colorado Springs, CO. 1998-2003.

Volunteer, Northern Colorado Nature Conservancy, Fort Collins, CO. 1997-2001.

Volunteer, Fremont County Search and Rescue, Lander, WY. 1994-1997.

Additional Professional Field Experience

Rock Climbing Instructor and Safety Auditor, Winona Camps, Bridgeton, ME. 2017

Leave No Trace Course Instructor, Sterling College and St. Lawrence U. 2001-2007.

Rock and Ice Climbing Instructor, Sterling College and St. Lawrence U. 2001-2007.

Ski Patroller, Diamond Peaks Ski Patrol, Fort Collins CO. 1992-1993.

Nordic Ski Instructor, Powderhorn Ski Resort, Grand Junction, CO. 1988-1989.

Mountaineering Instructor/Guide, Desert Rock Guides, Grand Junction, CO. 1988-1989.

Rock Climbing Instructor, High Angle Adventures, New Paltz, NY. 1982-1986.

Climbing Ranger and Naturalist, Mohonk Preserve, New Paltz, NY. 1983-1985.

Professional Affiliations and Adjunct Appointments

- Courtesy Faculty Member, Environmental Sciences Graduate Program, Oregon State University. 2022-2027.
- Affiliate Faculty, Human Dimensions of Natural Resources, CSU (2007 to 2009)
- Affiliate Faculty, Department of Arctic and Marine Biology, The Arctic University of Norway, Tromsø, Norway (2015 to 2019)
- The George Wright Society (2000 to 2010)
- American Alpine Club (1995 to date)
- Natural Areas Association (2003 to 2007)
- Leave No Trace (1995 to date)
- Adirondack Mountain Club (2003 to 2007)
- Associate Editor for Research, International Journal of Wilderness (1995 to date)
- Ecological Society of America (1989-2000)

Certifications and Trainings

- USU Allies on Campus (LGBTQ) training (2016)
- USU Teaching Portfolio Workshop (2009)
- USU Teaching Academy for New Faculty (2007)
- Leave-No-Trace Master Trainer (Current)
- Certified Professional Ecologist- Ecological Society of America
- Wilderness First Aid and CPR (Current); Wilderness First Responder (Past)
- National Ski Patrol Avalanche 1 Certificate and Winter Mountaineering Exam

Personal

Personal interests include trail running, rock climbing, mountaineering, nordic skiing, woodworking, photography, and guitar performance and composition.

References

Available upon request