

# Dr. Ashley D'Antonio

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## PROFESSIONAL EXPERIENCE

### Assistant Professor, Nature-Based Recreation Management

Department of Forest Ecosystems and Society  
Oregon State University, Corvallis, OR

2016 - Present

### Postdoctoral Teaching & Research Fellow

Department of Environment & Society  
Utah State University, Logan, UT

2015 - 2016

## EDUCATION

Ph.D. **Utah State University**, Logan, UT

June 2015

*Human Dimensions of Ecosystem Science and Management*

M.S. **Utah State University**, Logan, UT

December 2010

*Human Dimensions of Ecosystem Science and Management*

B.S. **The Pennsylvania State University**, University Park, PA

May 2006

*Biology (Ecology Concentration)*

## RESEARCH GRANTS

USDA Forest Service, "Siuslaw National Forest Recreation Study and Analysis Project": 2017 - 2018  
(\$32,393)

USDI National Park Service, "Summer Visitor Use and Resource Monitoring at Focal Attractions and Trails in Yellowstone National Park": 2017 (\$24,944)

USDI National Park Service, "Leigh and String Lakes Visitor Use Study at Grand Teton National Park":  
2017 - 2019 (\$463,485)

Natural Communities Coalition, "Recreation Use and Human Valuation on the Nature Reserve of Orange County, California": 2017-2019 (\$492,111)

USDA Forest Service, "Minimum Protocol for Social Trails Monitoring in Wilderness": 2016

## COMPLETED RESEARCH PROJECTS

### Postdoctoral Research Fellow

Department of Environment & Society, Utah State University, Logan, UT

*Jotunheimen National Park, Norway* 2016

- Assisted Norwegian research team in data collection and study design
- Assessed extent and location of cultural ecosystem services and recreation disturbance

*Rocky Mountain National Park* 2015

- Building predictive GIS model of informal trail proliferation
- Mapping locations and conditions of bouldering-related ecological impacts

### Graduate Research Assistant (Ph.D.)

Department of Environment & Society, Utah State University, Logan, UT

*Grand Teton National Park, Graduate Research Assistant* 2012 – 2015

- Designed and implemented GPS-tracking study of vehicles and pedestrians
- Mapped locations and conditions of parking-related impacts along popular road corridor

*Arapahoe-Roosevelt National Forest, Graduate Research Assistant* 2012 – 2013

- Mapped locations and conditions of resource-related impacts at popular hiking destinations
- Collaborated with managers on GIS-analysis of feasible placement for new trail alignments

*Joshua Tree National Park, Principle Investigator* 2011 – 2013

- Designed study and survey instrument to examine visitor perceptions of resource impacts
- Administered survey and analyzed results to compare hiker and climber perceptions

*Yosemite National Park, Graduate Research Assistant* 2011 – 2013

- Designed and implemented GPS-tracking study to examine dispersed visitor use in meadows
- Designed and executed experimental trampling study to investigate vegetation susceptibility

*Swaner Nature Preserve, Co-Principle Investigator* 2010 – 2011

- Designed and implemented study to evaluate current trail conditions at urban nature preserve
- Designed and administered visitor use survey to evaluate visitor demographics and motivations

### Graduate Research Assistant (M.S.)

Department of Environment & Society, Utah State University, Logan, UT

*Rocky Mountain National Park, Graduate Research Assistant* 2008 – 2010

- Examined visitor use patterns and off-trail impacts using GPS and GIS analysis in day use area
- Designed, administered, and analyzed survey evaluating visitor perceptions of resource impacts

## TEACHING EXPERIENCE

### Oregon State University, Corvallis, OR

#### *Assistant Professor*

Courses: Outdoor Recreation Management on Public Lands (TRAL 351)	Winter Terms
Parks and Protected Areas Management (TRAL 357)	Fall Terms
Planning for Sustainable Recreation (TRAL 456)	Winter Terms

### Utah State University, Logan, UT

#### *Postdoctoral Teaching Associate*

Courses: Recreation Use Monitoring & Assessment (ENVS 4550)	2016
Recreation Policy & Planning (ENVS 4130)	2016
Recreation Policy & Planning (ENVS 6130)	2016
Human Behavior in Wildlands (ENVS 4500)	2015
Human Behavior in Wildlands (ENVS 6500)	2015
Fundamentals of Recreation Resources Management (ENVS 3300)	2015

#### *Graduate Student Instructor*

Courses: Human Dimensions of Natural Resource Management (ENVS 4000)	2012
Human Behavior in Wildlands (ENVS 4500)	2013

#### *Teaching Assistant*

Courses: Wildland Recreation Behavior (ENVS 4500)	2009 – 2011, 2014
Natural Resources Interpretation (ENVS 4600)	2014

### The Academy, Appleton, WI

#### *High School Science Teacher* 2006 – 2008

- Courses: Cambridge International Curriculum for IGCES Chemistry and AS/A Biology

#### *Middle School Science Teacher* 2007 – 2008

- Courses: Cambridge Checkpoint Curriculum for chemistry, biology, and physics

#### *Physical Education Teacher* 2007 – 2008

- Courses: General physical education to elementary and middle school students

### The Pennsylvania State University, Biology Department

#### *Teaching Assistant* 2005 – 2006

- Courses: Biology: Basic Concepts and Biodiversity (BIOL 110)
- Populations and Communities (BIOL 220)

## MENTORING AND ADVISING

### GRADUATE MAJOR ADVISOR

Jenna Baker (M.S. Forest Ecosystems and Society, in progress)

Carli Ewert (M.S. Forest Ecosystems and Society, in progress)

### STUDENT COMMITTEES

Brad Beaubien (M.S. Natural Resources, complete 2017)

Robin Graham (M.S. Human Dimensions of Ecosystem Science & Management, Utah State University, in progress)

Jacklyn Rushing (M.S. Forest Ecosystems and Society, in progress)

Joshua Petter (M.S. Forest Ecosystems and Society, in progress)

## PUBLICATIONS

### PEER REVIEWED JOURNAL ARTICLES

#### In Press

- Gutzwiller, K., **D'Antonio, A.**, Monz, C., (*In Press*) Quantifying recreation disturbance for broad-scale predictive modeling and management. *Frontiers in Ecology and the Environment*

#### In Review

- **D'Antonio, A.**, Monz, C., Crabb, B., Baggio, J., Howe, P. (*In Review*) 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*.
- Kidd, A., **D'Antonio, A.**, Monz, C., Heaslip, K., Taff, D., Newman P., (*In Review*) GPS-based classification of vehicular behavior patterns in a protected area setting. *Journal of Sustainable Tourism*.
- Newton, J.N., Newman, P., Taff, B.D., Shr, Y-H., Monz, C., **D'Antonio, A.**, (*In Review*) Visitor transportation preferences in the Moose-Wilson Corridor, Grand Teton National Park. *Journal of Transport Geography*.
- Newton, J.N., Newman, P., Taff, B.D., Monz, C., **D'Antonio, A.**, (*In Review*) Motivation for hiking's influence on travel behaviors. *Journal of Environmental Planning and Management*.

#### Published

- Fuentes, T., Heaslip, K., **D'Antonio, A.** (2017) Grand Teton National Park: Laurence S. Rockefeller Reserve (LSR) parking queue evaluation. *Transportation Research Record*, 2654, 1-10.
- **D'Antonio, A.**, Monz, C., Larson, N., Rohman, A., (2016) An application of recreation resource assessment techniques to inform management action in an urban-proximate natural area. *Journal of Outdoor Recreation and Tourism*, 14, 12 - 21.

- **D'Antonio, A.,** Monz, C., (2016) The influence of visitor use levels on visitor spatial behavior in off-trail areas of dispersed recreation use. *Journal of Environmental Management*, 170, 79-87.
- Monz, C., **D'Antonio, A.,** Lawson, S., Barber, J., Newman, P. (2016). The ecological implications of visitor transportation in parks and protected areas: Examples from research in US National Parks. *Journal of Transport Geography*, 51, 27-35
- Kidd, A., Monz, C., **D'Antonio, A.,** Manning, R.E., Reigner, N., Goonan, K., Jacobi, C. (2015). The effects of minimum impact education on visitor behavior: An experimental investigation using GPS-based tracking. *Journal of Environmental Management*. 162, 53-62.
- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Taff, D. (2013). Enhancing the utility of visitor impact assessment in parks and protected areas: A combined social-ecological approach. *Journal of Environmental Management*, 124, 72-81.
- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Taff, D. (2012). The effects of local ecological knowledge, minimum-impact knowledge, and prior experience on visitor perceptions of the ecological impacts of backcountry recreation. *Environmental Management*, 50 (4), 542-554.
- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Pettebone, D., Courtemanch, A., (2010). GPS-based measurements of backcountry visitors in parks and protected areas: examples of methods and applications from three case studies. *Journal of Parks and Recreation Administration*, 28, 42-60.

#### BOOK CHAPTERS

- **D'Antonio, A.,** Monz, C., Lawson, S., Newman, P., Taff, D. (2014). Resource Conditions in Park Locations Served by Alternative Transportation Systems at Rocky Mountain National Park. In: R. Manning, S. Lawson, P. Newman, J. Hallo, C. Monz (Eds). *Sustainable Transportation in National Parks: From Acadia to Zion*. University Press of New England.

#### TECHNICAL REPORTS

##### Peer Reviewed

- Monz, C., **D'Antonio, A.,** Heaslip, K. (2015) *Moose-Wilson Corridor Use Levels, Types, Patterns, and Impacts in Grand Teton National Park: Technical Report – Summer/Fall 2014*. Logan, Utah.
- Monz, C., **D'Antonio, A.,** Heaslip, K. (2014) *Moose-Wilson Corridor Use Levels, Types, Patterns, and Impacts in Grand Teton National Park: Technical Report – Winter 2014*. Logan, Utah.

- Monz, C., **D'Antonio, A.**, Heaslip, K. (2014) *Moose-Wilson Corridor Use Levels, Types, Patterns, and Impacts in Grand Teton National Park: Technical Report – Summer/Fall 2013*. Logan, Utah.

#### Non-Peer Reviewed

- **D'Antonio, A.**, Hall, T. (2016) US Forest Service Minimum Protocol for Social Trails Monitoring in Wilderness. Corvallis, OR: Oregon State University
- **D'Antonio, A.**, Monz, C. (2016) An Assessment of Informal Trails and Visitor-Created Sites in Rocky Mountain National Park, Colorado: Bouldering Impacts in the Chaos Canyon and Emerald Lake Areas. *Technical Report to Rocky Mountain National Park*. Logan, Utah: Utah State University
- **D'Antonio, A.** (2013) Understanding Visitor Perceptions of Recreation Resource Impacts: A Comparison of Climber and Hiker Perceptions. *Technical Report to Joshua Tree National Park*. Logan, Utah: Utah State University
- Monz, C., **D'Antonio, A.** (2012). Yosemite National Park Meadow Environments Visitor Tracking Study. *Technical Report*. Logan, Utah: Utah State University
- **D'Antonio, A.**, Monz, C. (2011) *Trail and Visitor Use Assessment: Swaner EcoCenter Study*. Logan, Utah: Utah State University

## SCHOLARLY PRESENTATIONS

### 2017

- D'Antonio, A., Irizarry, S., “Leveraging GPS tracking for improved decision-making: Innovative analysis and expanded visitor and resource management applications.” Session Co-chair. George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. April 2 -7, Norfolk, VA.
- D'Antonio, A., Monz, C., “Does use-level influence visitors’ off-trail behavior in ways that are socially and ecologically important?” Presentation. George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. April 2 -7, Norfolk, VA.
- D'Antonio, A., Monz, C., Crabb, B. “Improving predictability in visitor use and natural resource management using agent-based models of hiker movement.” Presentation. George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. April 2 -7, Norfolk, VA.
- D'Antonio, A., Monz, C., Kidd, A., Graham, R., “The importance of monitoring resource impacts from emergent activities: Lessons from bouldering use in the Bear Lake Road Corridor.” Presentation. Rocky Mountain National Park's Biennial Research Conference. March 1 – 3, Estes Park, CO.

## 2016

- 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, Jackson, WY.

## 2015

- 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, 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." Presentation. The 2015 Science for Parks, Parks for Science: The Next Century Summit. March 25 – 27, Berkeley, CA.

## 2014

- D'Antonio, A., Monz, C., Newburger, T. "Dispersed recreation in Yosemite National Park, CA: Understanding visitor use patterns and the implications for management." Invited Presentation. The 2014 North American Congress for Conservation Biology. July 13 – 15, Missoula, MT.

## 2013

- D'Antonio, A., Monz, C. "Understanding Visitor Perceptions of Recreation Resource Impacts: Comparing Climbers and Hiker Perceptions in Joshua Tree National Park, California." Presentation. The 2013 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 11 - 15, Denver, CO.

## 2012

- D'Antonio, A., Monz, C. "Using Traditional Recreation Management Techniques in an Urban-Proximate Natural Area: A Case Study from the Swaner Preserve." Poster. Land Trust Alliance Rally. October 1-2, 2012. Salt Lake City, Utah.

## 2011

- D'Antonio, A., Monz, C. "Understanding the Visitor Experience in Rocky Mountain National Park." Presentation. Intermountain Graduate Research Symposium. March 30-31, 2011. Logan, Utah.
- 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." Presentation. 16<sup>th</sup> International Symposium on Society & Resource Management. June 6-10, 2010, Corpus Christi, Texas.

## 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." Presentation. 2010 Research Conference Rocky Mountain National Park. March 30-31, 2010. Estes Park, Colorado.
- 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." Presentation. The 2009 George Wright Society Conference on Parks, Protected Areas and Cultural Sites. March 2-6 2009, Portland, OR.

## **AWARDS & RECOGNITION**

*Recipient*, Quinney College of Natural Resources Utah State Graduate Teacher of the Year, 2013 – 2014

*Recipient*, S.J. & Jessie E. Quinney Graduate Fellowship – Masters Degree, 2008 – 2010

## **PROFESSIONAL SERVICE**

<b>Recruitment and Retention Workgroup</b> , Oregon State University	2017
<b>Academic Advisor Search Committee</b> , Oregon State University	2017
<b>Associate Editor</b> , Journal of Parks and Recreation Administration	2017
<b>Starker Lecture Series</b> , Oregon State University <i>Selection Committee</i>	2016
<b>Robins Award</b> , Utah State University <i>Selection Committee</i>	2015
<b>Ecology Center Seminar Series</b> , Utah State University <i>Speaker Selection and Hosting Committee</i>	2012 – 2015
<b>College of Natural Resources Graduate Student Council</b> , Utah State University <i>Environment and Society Department Representative</i>	2012 – 2014
<i>Council Head Chairperson</i>	2010 – 2012
<i>Council Member</i>	2008 – 2010
<b>Department Head Search Committee</b> , Utah State University <i>Graduate Student Representative</i>	2013 – 2014
<b>Reviewer</b>	
<i>Journal of Travel Research</i> (1)	2017
<i>International Journal of Environmental Health Research</i> (1)	2017
<i>Journal of Outdoor Recreation &amp; Tourism</i> (2)	2016 – 2017
<i>Journal of Environmental Management</i> (3)	2012 – 2016
<i>Leisure Sciences</i> (1)	2016
<i>Journal of Sustainable Tourism</i> (1)	2016
<i>Journal of Forestry</i> (1)	2016
<i>Environmental Management</i> (1)	2016

## **COMMUNITY SERVICE**

### **Community Volunteer**

*Get Outdoors Day*, Corvallis, OR 2017



<i>STEM Academy</i> , College of Forestry, Oregon State University	2017
<i>Spring Roll</i> , Corvallis, OR	2017
<i>The Valentine Chocolate Festival Fundraiser</i> , Logan, Utah	2009 – 2016

**Volunteer Judge**

<i>Bridgerland Science and Engineering Fair</i> , Logan, Utah	
Elementary School Level	2016
High School Level	2013

**Volunteer Educator**

<i>Stokes Nature Center</i> , Logan, Utah	2009 – 2012
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**PROFESSIONAL AFFILIATIONS**

Ecological Society of America (2016), George Wright Society (2009 to date), Society for Conservation Biology (2014 to 2015), International Association for Society and Natural Resources (2010 to 2012).

**CERTIFICATIONS AND TRAINING**

College of Forestry Grant Writing Workshop (2016), National ComSciCon Workshop (2015), Utah State University Grant Writing Workshop (2014), Utah State University Teaching Assistant Workshop (2010), Wilderness First Aid (Current)