

Julia D. Monk

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EDUCATION

Yale University, New Haven, CT Fall 2016 – present
Ph.D. in Forestry and Environmental Studies *Advisor: Dr. Oswald J. Schmitz*

Columbia University, New York, NY Fall 2009 – Spring 2013
B.A. *magna cum laude* with honors in Environmental Biology GPA: 3.88

GRANTS, FELLOWSHIPS, AND AWARDS

Yale Dean's Emerging Scholars Fellowship (\$11,000)	2016-2019
NSF Graduate Research Fellowship – Honorable Mention	2016
Columbia E3B Departmental Thesis Award	2013
Columbia University Phi Beta Kappa	2013
Craig Undergraduate Research Grant (\$3,000)	2012
Schlumberger Foundation Scholarship	2012
Herbert and Jeanette Pearl Scholarship	2010
GM/EEOC Scholarship	2009
Columbia University Dean's List	2009-2013

RESEARCH EXPERIENCE

Virginia Tech Shorebird Program, Fire Island, NY Spring 2014 – Fall 2016
Field Manager, Crew Leader, and Research Technician

- Trained and managed a field crew conducting research on the effects of storm- and human-induced habitat change on piping plovers post-Hurricane Sandy
- Analyzed multi-year data on shorebird demographics, habitat selection, and behavior for peer-reviewed publication and multi-agency reports
- Supervised trapping and banding of adult piping plovers and chicks
- Assisted trapping and collaring of red foxes

Columbia University – Independent Research, Centennial Valley, MT Summer 2012
Undergraduate Student Researcher *Advisors: Dr. Cameron Aldridge and Dr. Natalie Boelman*
*Thesis: "Effects of fire on greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat and food resources in the Centennial Sandhills, MT"*

- Surveyed for sage-grouse scat to determine occupancy
- Measured vegetation characteristics in various burned and unburned habitats to determine canopy cover and forb availability
- Collected invertebrate samples from various burned and unburned sites to compare prey availability in different habitats

The Nature Conservancy, Centennial Valley, MT Summers 2010, 2011, 2013
Land Stewardship Assistant, Invasive Species and Restoration Intern

- Analyzed invertebrate and vegetation data to assess sage-grouse habitat quality
- Conducted passerine and shorebird surveys on public and private land
- Restored riparian areas by removing encroaching conifers and planting willows
- Managed cattle grazing experiments and measured grass biomass and residual cover to determine effects of differential grazing treatments
- Led youth crews and educated student volunteers about ecology and conservation
- Liaised with local ranchers and private landowners to collaborate on conservation initiatives and land management concerns

University of Montana/SUNY Stony Brook, Iguazu, Argentina Summers 2006-2008
Research Assistant for Dr. Charles Janson

- Assisted research on brown capuchin monkey behavior in Iguazu National Park
- Implemented banana feeding platform experiments to understand foraging decision-making in capuchin monkey groups
- Deployed predator model and audio recording experiments to understand methods of capuchin monkey predator detection

TEACHING, MENTORING, AND OUTREACH EXPERIENCE

Ecology Project International, Centennial Valley, MT Summers 2010-2013
Field Partner and Guest Lecturer

- Led visiting groups of middle school, high school, and college students in service projects, including barbed wire fence removal and conifer removal
- Gave guest lectures on the ecological importance of the Centennial Valley within the Greater Yellowstone Ecosystem, wildlife corridors and the dangers of barbed wire fencing, fire ecology and changing forest structure, and reconciling wildlife conservation with local livelihoods

The Nature Conservancy, Centennial Valley, MT Summers 2011-2013
Land Stewardship Assistant

- Led inner-city high school interns in invasive species management and habitat restoration projects

Columbia University, New York, NY Fall 2011 – Spring 2013
Multicultural Recruitment Committee Co-Chair, Office of Undergraduate Admissions

- Led student efforts to promote and recruit diversity among the Columbia undergraduate student body
- Planned and organized prospective students weekends for over 1,000 attendees
- Created student outreach materials and managed email and social media interactions with prospective students
- Interviewed applicants to Columbia University
- Presented at research symposia and panels detailing opportunities in the sciences

POSTERS AND PRESENTATIONS

Student Conference on Conservation Science, New York, NY, 2014

Poster Presentation: '*Effects of fire on greater sage-grouse (Centrocercus urophasianus) brood-rearing habitat and food resources in the Centennial Sandhills, MT*'

Local Sagebrush and Grassland Ecology Symposium, Centennial Fire Learning Network, Lima, MT, 2013

Oral Presentation: '*Effects of fire on greater sage-grouse (Centrocercus urophasianus) brood-rearing habitat and food resources in the Centennial Sandhills, MT*'

Senior Thesis Poster Session, Columbia University, New York, NY, 2013

Oral and Poster Presentation: '*Effects of fire on greater sage-grouse (Centrocercus urophasianus) brood-rearing habitat and food resources in the Centennial Sandhills, MT*'

PUBLICATIONS

Peer-Reviewed Articles:

Monk, J.D., A. DeRose-Wilson, J.D. Fraser, D.H. Catlin and S.M. Karpanty. (In review). Report of Fish Consumption by Piping Plovers (*Charadrius melodus*).

DeRose Wilson, A., J.D. Fraser, D.H. Catlin, S.M. Karpanty and **J.D. Monk**. (In preparation). Piping plover chick survival reduced by human presence.

Other Contributions:

Monk, J.D., A. Derose-Wilson, J.D. Fraser, D.H. Catlin and S.M. Karpanty. 2015. Migratory Shorebird Monitoring on Fire Island, NY. Technical Report to the U.S. Fish and Wildlife Service. Long Island Field Office, Shirley, NY.

Monk, J.D., K. Miles, A. Derose-Wilson, J.D. Fraser, D.H. Catlin, S. Ritter, K.M. Walker and S.M. Karpanty. 2015. Annual Report for Piping Plover and Red Fox Monitoring on Fire Island and Westhampton Island, New York. Technical Report to the U.S. Fish and Wildlife Service. Long Island Field Office, Shirley, NY.

Monk, J.D. 2015. Variation in greater sage-grouse invertebrate prey stocks across habitat types in a sagebrush landscape in the Centennial Valley, MT. Internal report, The Nature Conservancy, Helena, MT.

Monk, J.D. 2013. Effects of dominant vegetation on invertebrate biomass in the Centennial Valley's Patchtop Ranch. Internal report, The Nature Conservancy, Helena, MT.

Monk, J.D. 2012. Effects of fire on greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat and food resources in the Centennial Sandhills, MT. *Senior thesis*. Columbia University, New York, NY.

SKILLS

Languages:

- Fluent: Spanish (heritage speaker with extensive translation experience)
- Intermediate: Brazilian Portuguese, Hebrew, French
- Elementary: Hindi-Urdu

Computer Software:

- Statistics: R, SAS
- Environmental Analysis: ArcGIS, Program MARK

Research and Technical:

- Machinery: Experience operating chainsaws, ATVs, manual transmission vehicles
- Animal capture and handling: USFWS endangered species authorization for bird banding and banding supervision; experience setting Sherman traps, foothold traps, and cage traps for small-medium mammals