

# Julia D. Monk

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## EDUCATION

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

**B.A. in Environmental Biology** (magna cum laude with honors) May 2013  
Columbia University, New York, NY GPA: 3.88

## GRANTS

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**MacMillan International Dissertation Research Fellowship (\$15,300)** 2019  
**Lewis & Clark Fund (\$3,300)**, American Philosophical Society 2019  
**Travel Award (\$350)**, Yale Center for Latin American and Iberian Studies 2018  
**FES Research Grant (\$5,700)**, Yale Institute for Biospheric Studies 2017, 2018  
**Doctoral Pilot Award (\$2,900)**, Yale Institute for Biospheric Studies 2017  
**TRI Endowment Fellowship (\$10,000)**, Yale Tropical Resources Institute 2017, 2019  
**Schiff Fund for Wildlife Habitat, and the Environment (\$2,000)**, Yale University 2017  
**Craig Undergraduate Research Grant (\$3,000)**, Columbia University E3B 2012

## FELLOWSHIPS AND AWARDS

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**Nathan Hale Associates Fellowship**, Yale University 2019  
**Dean's Emerging Scholars Fellowship (\$11,000)**, Yale University 2016 – 2019  
**NSF Graduate Research Fellowship – Honorable Mention** 2016  
**Departmental Thesis Award**, Columbia University E3B 2013  
**Phi Beta Kappa**, Columbia University 2013

## PEER-REVIEWED PUBLICATIONS

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4. **Monk, J.D.\***, C.E. McDonough\*, M.R. Lambert\*, A. Kamath\* and E. Giglio\*. (Accepted). An alternative hypothesis for the evolution of same-sex sexual behaviour in animals. *Nature Ecology and Evolution*. \*Shared First Authorship
3. Burak, M.K., **J.D. Monk** and O.J. Schmitz. 2018. Eco-evolutionary dynamics: the predator-prey adaptive play and the ecological theater. *Yale Journal of Biology and Medicine* 91(4):481-489.

2. DeRose Wilson, A., K.L. Hunt, **J.D. Monk**, D.H. Catlin, S.M. Karpanty and J.D. Fraser. 2018. Piping plover chick survival negatively correlated with beach recreation. *Journal of Wildlife Management* 82(8):1608-1616. doi:10.1002/jwmg.21552
1. **Monk, J.D.**, A. DeRose-Wilson, J.D. Fraser, D.H. Catlin and S.M. Karpanty. 2016. Observation of fish consumption by Piping Plovers. *Northeastern Naturalist* 23:N22-N25. doi:10.1656/045.023.0311

## PAPERS IN REVIEW OR PREPARATION (Drafts available upon request)

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**Monk, J.D.\***, E. Kwon\*, A. DeRose-Wilson, S.G. Robinson, H.A. Bellman, S.M. Karpanty, D.H. Catlin and J.D. Fraser. (*In review*). Assessing the effectiveness of the piping plover as a surrogate species for migratory shorebird conservation.

\*Shared First Authorship

**Monk, J.D.**, A. Carla Staver and O.J. Schmitz. (*In prep.*) Biogeochemical pattern in the landscape of fear.

## RESEARCH EXPERIENCE

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**Yale University – Dissertation Research**, San Guillermo NP, Argentina 2017-present  
Pumas, vicuñas, condors, and the role of food webs in nutrient cycling and ecosystem function in the High Andes

**Virginia Tech Shorebird Program**, Fire Island, NY Spring 2014 – Fall 2016  
*Field Manager (2016), Crew Leader (2015), and Research Technician (2014)*  
Effects of storm- and human-induced habitat change on piping plovers and red foxes post-Hurricane Sandy

**Columbia University – Independent Research**, Centennial Valley, MT Summer 2012  
Effects of fire on greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat and food resources in the Centennial Sandhills, MT

**The Nature Conservancy**, Centennial Valley, MT Summers 2010 – 2013  
*Land Stewardship Assistant (2013), Invasive Species and Restoration Intern (2010-2012)*  
Wildlife monitoring, land management, and stakeholder engagement in forests, sagebrush steppe, and rangelands in the Centennial Valley

**University of Montana/SUNY Stony Brook**, Iguazu, Argentina Summers 2006 – 2008  
*Research Assistant for Dr. Charles Janson*  
Research on group foraging decision-making and predator detection by brown capuchin monkeys

## INVITED TALKS

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2018 Queering Science: Rethinking Biology, Sex, & Environment. **UC Berkeley Social Science Matrix**, Berkeley, CA. *Invited Panelist*.

Decolonizing Research Panel. **Yale Forestry & Environmental Studies Research Conference**, New Haven, CT. *Session Chair*.

2017 Pumas, condors, and Andean biogeochemistry. **University of Virginia Department of Environmental Sciences Seminar**, Charlottesville, VA.

2013 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.

## CONTRIBUTED PRESENTATIONS

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2019 **Monk, J.D.**, E. Giglio, A. Kamath, M.R. Lambert and C.E. McDonough. Same-sex sexual behavior in animals: a novel evolutionary hypothesis. *Poster*. **Evolution**, Providence, RI.

2018 **Monk, J.D.** and O.J. Schmitz. Predator control of the spatiotemporal distribution of nutrient flows. *Poster*. **Gordon Research Conference - Unifying Ecology Across Scales**, Biddeford, ME.

2017 **Monk, J.D.** Predation, scavenging, and the fate of nutrients in the high Andes. *Flash talk*. **Yale Forestry & Environmental Studies Research Conference**, New Haven, CT.

2014 **Monk, J.D.** Effects of fire on greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat and food resources in the Centennial Sandhills, MT. *Poster*. **Student Conference on Conservation Science**, New York, NY.

2013 **Monk, J.D.** Effects of fire on greater sage-grouse (*Centrocercus urophasianus*) brood-rearing habitat and food resources in the Centennial Sandhills, MT. *Oral presentation*. **Columbia University Undergraduate Research Symposium**, New York, NY.

## TECHNICAL REPORTS & OTHER PUBLICATIONS

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- Carey, A.M., K. Miles, S.G. Robinson, K.M. Walker, E. Kwon, **J.D. Monk**, et al. 2017. Multiple factor analysis of piping plovers and other beach dependent species habitat use and population dynamics following storm and human created habitat changes to barrier island habitats within the Fire Island National Seashore. Technical Report to the U.S. Fish and Wildlife Service. Long Island Field Office, Shirley, NY.
- 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, et al. 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.

## TEACHING EXPERIENCE

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### Instructor on Record

Plant Form and Evolution, Yale Pathways to Science (*Co-Instructor*) 2019

### Teaching Assistant

The New England Forest, Yale College 2018, 2019

Ecosystems and Landscapes, Yale Forestry & Environmental Studies 2017

Ecology and the Future of Life, Yale College 2017

### Guest Lecturer

Ecology and the Future of Life, Yale College 2018

Is the Planet Doomed?, Colgate University 2017

Women in Ecology Webinar Series, St. Mary's College 2017

Yellowstone Field Course, Ecology Project International 2010-2013

## MENTORING AND OUTREACH EXPERIENCE

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### **Fieldwork Mentor and Supervisor, High School Interns**

Branford Land Trust intern, Branford, CT 2017  
Nature Conservancy LEAF interns, Centennial Valley, MT 2011-2013

### **Mentor**

Yale F&ES PhD Peer Mentoring Program 2017-present  
Yale Spanish for Heritage Speakers Language Mentoring 2017-present  
Women in Science at Yale 2016-present

### **Science Communication:**

"Our Coyote Population", Branford Land Trust Newsletter 2017

**Multicultural Recruitment Committee Co-Chair, Columbia University** 2011-2013

## PROFESSIONAL SERVICE

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**Reviewer:** *PNAS, Biological Invasions, Journal of Wildlife Management*

**Conference Organizer:** Yale F&ES Research Conference (2018)

**Conference Volunteer:** II Joint Congress on Evolutionary Biology (2018)

**Translator:** Western Hemisphere Shorebird Conference (2015), various journal and conference abstracts

**Member:** American Society of Naturalists, American Society of Mammalogists

## SKILLS

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### **Languages:**

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

### **Computer Software:**

- R, SAS, ArcGIS, QGIS, 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 supervision; Sherman traps, foothold traps, and cage traps
- Ecological research: VHF telemetry and triangulation, camera trapping, mark-recapture, pitfall trapping, sweep netting, cattle herding

### **Workshops and Short Courses:**

- IsoCamp, University of Utah – SIRFER, 2018