

Jonathan A. Nations

NSF Postdoctoral Research Fellow
Department of the Geophysical Sciences
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EDUCATION

2015 - 2020 | **PhD**, Biological Sciences, Louisiana State University
Dissertation: FUNCTION, HISTORY, AND ECOLOGY IN THE EXCEPTIONAL DIVERSIFICATION OF MURINE RODENTS

2011 - 2014 | **BSc**, Biological Sciences, University of Alaska Fairbanks
Thesis: CLIMBING BEHAVIOR OF NORTHERN RED-BACKED VOLES AND SCANSORIALITY IN *Myodes*

2008 - 2011 | **ASc**, Science and Math, Seattle Central Community College

RECENT PROFESSIONAL EXPERIENCE

2020 - 2023 | **NSF Postdoctoral Research Fellowship in Biology**
Interdisciplinary Research Using Biological Collections.

2015 - 2018 | **Curatorial Assistantship**
Mammals Division, LSU Museum of Natural Science.

2014 - 2015 | **Assistant Collections Manager**
Mammals Division, University of Alaska Museum.

2014 - 2015 | **Intern, Student Conservation Association**
Denali National Park & University of Alaska Museum.

2011 - 2014 | **Curatorial Assistant**
Mammals Division, University of Alaska Museum.

GRANTS, SCHOLARSHIPS, AND AWARDS

2020 | **American Society of Mammalogists Fellowship (\$20,000)**
The highest award made to a graduate student member of ASM.

2020 | **LSU Museum of Natural Science Outstanding Graduate Student**

2019 | **Louisiana State University Prestigious Graduate Fellowship Award (\$4,000)**
Awarded to select students for funding dissertation research.

2019 | **Research Triangle Nanotechnology Network Award (\$2,000)**

2020 | **American Society of Mammalogists Patton Award (\$5,000)**

- 2017 | **NSF East Asia Pacific Studies Institute Fellow** (\$8,000)
Sponsor: Dr. Kevin Rowe, Museums Victoria, Melbourne, Australia
- 2016 | **Society of Systematic Biologists Graduate Student Research Award** (\$1200)
- 2016 | **American Society of Mammalogists Grant in Aid** (\$1,000)
- 2015 | **National Science Foundation Graduate Research Fellowship**
- 2015 | **Outstanding Undergraduate Student in the Biological Sciences**
University of Alaska Fairbanks

PUBLICATIONS

- 2022 | **J.A. Nations**, B.A. Kohli, H. Handika, A.S. Achmadi, M.J. Polito, K.C. Rowe, J.A. Esselstyn. Trait-specific patterns of community ecospace occupancy in an insular mammal radiation. *In Revision*. [link to bioRxiv preprint](#)
- 2022 | Wisniewski, A.L.*, **J.A. Nations***, & G.J. Slater*. 2022. Bayesian prediction of multivariate ecology from phenotypic data yields novel insights into the diets of extant and extinct taxa. *In Revision*. [link to bioRxiv preprint](#)
**Equal contribution*
- 2022 | Swanson, M.T., A.S. Achmadi, **J.A. Nations**, M.W. Henson, H. Handika, S. Anita, K.C. Rowe, H. Bennadji, M.J. Polito & J.A. Esselstyn. Bacterial families variably associated with diet along the gut in a trophically diverse community of wild rodents. *In Review*.
- 2021 | Marcondes, R.S.*, **J.A. Nations***, Seeholzer, G.F., & Brumfield, R.T. 2021. Rethinking Gloger's rule: climate, light environments, and color in a diverse family of tropical birds. *The American Naturalist*. 197(5): 592-606.
**Joint first authorship*
- 2021 | **Nations, J.A.**, G.G. Mount, S.M. Morere*, A.S. Achmadi, K.C. Rowe, & J.A. Esselstyn. Locomotory mode transitions alter phenotypic evolution and lineage diversification in an ecologically rich clade of mammals. *Evolution*. 75(2): 376-393.
**Undergraduate author*
- 2021 | **Nations, J.A.**, A. Mursyid, R. Darma Busta, S.P. Adrian, H. Handika, Apandi, A.S. Achmadi, J.A. Esselstyn. An albino rat from West Sumatra, Indonesia represents the first report of albinism in a Sundaland rodent. *Mammalia*. 85(2): 168-172.
- 2020 | Roycroft, E.J*, **J.A. Nations***, & K.C. Rowe. Environment predicts repeated body size shifts in a recent radiation of Australian mammals. *Evolution*. 74(3): 671-680.
**Joint first authorship*

- 2019** | **Nations, J.A.**, L.R. Heaney, T.C. Demos, A.S. Achmadi, K.C. Rowe, & J.A. Esselstyn. A Simple Skeletal Measurement Effectively Predicts Climbing Behavior in Murine Rodents. *Biological Journal of the Linnean Society*. 128(2): 323-336.
Selected for BJLS Ecomorphology Collection Virtual Issue
- 2015** | **Nations, J.A.** & L.E. Olson. 2015. Climbing behavior of northern red-backed voles (*Myodes rutilus*) and scansoriality in *Myodes* (Rodentia, Cricetidae). *Journal of Mammalogy* 96(5): 957-963.

CONFERENCE PRESENTATIONS

INVITED PRESENTATIONS

OUTREACH, LEADERSHIP, & MENTORSHIP

TEACHING

FIELDWORK: MUSEUM COLLECTION EXPEDITIONS