Curriculum Vitae of Beatrice Margareta Bock

Department of Biological Sciences; Center for Adaptable Western Landscapes

Northern Arizona University (NAU), Flagstaff, AZ 86011

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Former name: Beatrice Rodewald Bmb646@nau.edu | +1(954)756-5388

Education

Ph.D. Biology, Northern Arizona University, Flagstaff, AZ

Expected Spring 2026

Advisors: Dr. Kitty Gehring and Dr. Nancy Johnson Committee: Dr. Jason Hoeksema, Dr. Emily Cope

Research interests: Fungal ecology, plant-fungal symbioses, conservation ecology

GPA: 4.0

B.A. Earth and Environmental Sciences, Vanderbilt University, Nashville, TN

May 2020

Cum laude, Highest Honors, GPA: 3.8 & Major GPA: 3.9

Advisor: Dr. Simon Darroch

Honors Thesis: Long-term changes in unionid community in Kentucky Lake: Implications for understanding the effects of

impoundment on river systems

Experience

Teaching Assistant, Northern Arizona University, Flagstaff, AZ

Aug - Dec 2023; Aug - Dec 2022

Mycology, Supervisor: Dr. Kitty Gehring

Research Assistant, Northern Arizona University, Flagstaff, AZ

Dec 2023- Present; Dec 2022 - Aug 2023 & Dec 2021 - Aug 2022

Biological Sciences & Center for Adaptable Western Landscapes

Supervisors: Dr. Kitty Gehring and Dr. Nancy Johnson

Guest Lecturer, Northern Arizona University, Flagstaff, AZ

Nov 2022; Fall 2023

Mycology

Teaching Assistant, Northern Arizona University, Flagstaff, AZ

Aug - Dec 2021

Introduction to Cell Biology

Research Assistant, Vanderbilt University, Nashville, TN

Jan 2019 - May 2020 & Aug 2017 - May 2018

Department of Earth & Environmental Sciences, Supervisors: Dr. Simon Darroch & Dr. Michelle Casey

Student Teaching Assistant, Vanderbilt University, Nashville, TN Introductory Oceanography, Supervisor: Dr. Steven Goodbred

Fall 2018

Research Assistant, Stanford University, Palo Alto, CA

May 2018 - Aug 2018

Department of Geological Sciences, Supervisor: Dr. Erik Sperling Bird Ringing Assistant, Kvismaren Fågelstation, Närke, Sweden

May 2017 - Juy 2017

Publications

Bock, B., & Markovchick, L. (2023). Considering Soil Biota and Symbioses in Forest Management and Ecosystem Restoration. Forests, 14(6), 1236. https://doi.org/10.3390/f14061236

Bock, B.M., Darroch, S. A. F., & Casey, M. (2023). Long-term changes in unionid community in Kentucky Lake: Implications for understanding the effects of impoundment on river systems. Journal of Freshwater Ecology, 38(1), 2203712. https://doi.org/10.1080/02705060.2023.2203712

Sperling, E. A., Melchin, M. J., Fraser, T., Stockey, R. G., Farrell, U. C., Bhajan, L., Brunoir, T. N., Cole, D. B., Gill, B. C., Lenz, A., Loydell, D. K., Malinowski, J., Miller, A. J., Plaza-Torres, S., Bock, B., Rooney, A. D., Tecklenburg, S. A., Vogel, J. M., Planavsky, N. J., & Strauss, J. V. (2021). A long-term record of early to mid-Paleozoic marine redox change. Science Advances, 7(28), eabf4382. https://doi.org/10.1126/sciadv.abf4382

Smith, E.F., Nelson, L. L., Darroch, S.A., Hodgin, E.B., Husson, J., Mehra, A.K., Rodewald, B., Schiffbauer, J., Selly, T., Strange, M., Tarhan, L.G. "Ediacaran-Cambrian Stratigraphy of the Great Basin, Southwest USA; Mt. Dunfee, Montgomery Hills, Nopah Range, and Kingston Range; April 26th – May 2nd, 2018," 2018.

Presentations

Poster Presentation, "Common fungal networks: Exploring the "Dark Web," Bock, Beatrice; Hoeksema, J., Gehring, C.A., Johnson, N.C. Northern Arizona University Graduate Student Government Poster Symposium, Spring 2024.

- Oral Presentation, "2024 Updates on Common Non-Mycorrhizal Network Experiment," **Bock, Beatrice,** Gehring, C.A., Johnson, N.C. 2024 Sorghum-AMF Annual Meeting. February 2024.
- Poster Presentation, "Common Non-Mycorrhizal Networks: Exploring the "Dark Web," **Bock, Beatrice,** Gehring, C.A., Johnson, N.C. 2023 Gordon Research Conference: Mechanisms of Social Communication in all Kingdoms. August 14, 2023.
- Oral Presentation, "Common Non-Mycorrhizal Networks: Exploring the "Dark Web," **Bock, Beatrice,** Gehring, C.A., Johnson, N.C. 2023 Mycological Society of America Annual Meeting: Elevating Mycology. August 1, 2023.
- Oral Presentation, "Common Non-Mycorrhizal Networks: Exploring the "Dark Web," **Bock, Beatrice,** Gehring, C.A., Johnson, N.C. Hawkesbury Institute for the Environment research symposium: Biological invasions, ecosystems, and global change. May 2023.
- Poster Presentation, "Non-mycorrhizal networks: Exploring the "Dark Web," **Bock, Beatrice**; Gehring, C.A., Johnson, N.C. Center for Adaptable Western Landscapes Poster Symposium, March 2023.
- Oral Presentation, "Exploring common non-mycorrhizal network relationships between plants and fungi," **Bock, Beatrice**; Gehring, C.A., Johnson, N.C. Northern Arizona University Three Minute Research Project Competition, March 2023.
- Poster Presentation, "Systems Analysis of the Beneficial Associations of Sorghum with Arbuscular Mycorrhizal Fungi Studied with Genetics, Genomics, Imaging, and Microbiomics," Bennetzen, J.L., Brailey-Jones, P., Pendergast, T., Zhang, S., **Bock, B.**, [...], Johnson, N.C. 2023 Department of Energy Genomic Science Program Biological Systems Science Division Conference, March 2023.
- Oral Presentation, "Sorghum Fungal Endophytes: December 2022 Updates," **Bock, Beatrice**; Gehring, C.A., Johnson, N.C. 2022 Annual Meeting of the AMF-Sorghum Systems Biology Project, 2022.
- Poster Presentation, "Non-mycorrhizal networks: Exploring the "Dark Web," **Bock, Beatrice**; Gehring, C.A., Johnson, N.C. Northern Arizona University Graduate Student Government Poster Symposium, 2022.
- Oral Presentation, "Using Bivalve Death Assemblages as an Indicator for Stressed River Ecosystems," Rodewald, Beatrice; Casey, Michelle; and Darroch, Simon A.F. Geological Society of America Annual Conference, 2019. https://gsa.confex.com/gsa/2019AM/webprogram/Paper337730.html
- Poster Presentation, "The Black Shale Record of the Ordovician Radiation: New Insights into Redox Change from the Road River Group of Yukon, Canada," Rodewald, Beatrice; [...] & Sperling, Erik A. Geological Society of America Annual Conference, 2018. https://gsa.confex.com/gsa/2018AM/meetingapp.cgi/Paper/319386
- Poster Presentation, "Quantifying Trace Fossils on Ediacaran-Cambrian Samples from Death Valley," **Rodewald, Beatrice**; [...]; and Smith, E.F. Southeastern Geological Society of America Annual Conference, 2018. https://gsa.confex.com/gsa/2018SE/webprogram/Paper312985.html

Scholarships/Distinctions/Funding

Award value: \$1,000

Scholarships/Distinctions/Funding	
Arizona Mushroom Society Award	Summer 2024
Funding towards covering invited speaker expenses at MSA conference 2024. Award value: \$500	
MSA-funded Symposium	Summer 2024
MSA-awarded funding to cover invited speaker expenses to symposium at the MSA Conference 2024. Award amount: \$5,000	
New Phytologist Foundation Innovation Grant	Summer 2024
Funding to cover invited speaker expenses to MSA Conference 2024. Award value: \$2,500	
Participant at 2024 EMSL Summer School: 1000 Fungal Proteins: Gene to Structure Determination	July 2024
Graduate Student Government Travel Award , Northern Arizona University, <i>Flagstaff, AZ</i> Award amount: \$500	Spring 2024
Finalist – Sweden-America Foundation Fellowship	Spring 2024
Support for Graduate Students (SGS) Award, Northern Arizona University, <i>Flagstaff, AZ</i> Funding towards student-led research projects. Award value: \$2,675.	2023 – 2024
Fellow, Hawkesbury Institute for the Environment, Western Sydney University, Sydney, AUS NSF-sponsored graduate course in co-invasion biology (https://coinvasions.olemiss.edu/) Mentors: Drs. Jason Hoeksema, Steven Brewer, Carla D'Antonio, Nicole Hynson, Rytas Vilgalys	May 2023
ARCS Scholar	2023 – 2024
Achievement Rewards for College Scientists. Award value: \$8,500.	
Presidential Fellow, Northern Arizona University, Flagstaff, AZ Award value: \$120,000	Fall 2021 — Spring 2024
James Rominger Scholarship Award value: \$500	2022
Dr. Leathers Graduate Student Scholarship, Arizona Mushroom Society	2022

McMinn Scholar, Vanderbilt University Fully funded tuition and independent research	h. Award value: ~\$128,000		2018 – 2020	
Dean's Undergraduate Advisory Board Member	er, Vanderbilt University		2018 — 2020	
President of Wilderness Skills Course 101, Van	derbilt University	Fa	ll 2019 – Spring 2020	
National Merit Scholar, Vanderbilt University Award value: \$8,000			2016 – 2020	
Dean's List, Vanderbilt University			2016 – 2020	
President of Geology Club, Vanderbilt Universi	ty		2018 – 2019	
Vaughan Scholar, Vanderbilt University Provided funds for summer research at Vande	erbilt University. Award value: \$1,450		2018	
Alberstadt-Reesman-Stearns Field Studies Sch Funded a 3-week field course in the Colorado			2018	
McLamore Foundation Scholar			2016	
Volunteer Service/Outreach				
Founder and Organizer of "Aloha Shirt Mond	ays", NAU. Increased attendance to NAU Biolo	gy Department	Spring 2024-Present	
analyses, methodological advances, conceptu	rence: "Expanding common mycorrhizal networal developments, and the future of network re		June 2024	
Obtained funding to cover all expenses for all Invasive Species Education at Kinsey Element students about local invasive species.	invited speakers. Toronto, Canada arry. Led a discussion and activity to teach 50 fi	fth-grade	May 2024	
Citation Management Software Workshop Le	eader, NAU		Fall 2023	
Conference Session Moderator, Soil Fungi and Nutrient Cycling, Mycological Society of America Annual			Summer 2023	
Conference, Flagstaff, AZ New Phytologist Manuscript Reviewer			Jan 2023	
Applied Soil Ecology Manuscript Reviewer			Dec 2022	
restoration" at the 16th Biennial Conference of	on, "Considering host-microbial interactions in f Science & Management on the Colorado Pla	•	Summer 2022	
Southwest Region, Flagstaff, AZ Member, NAU Biology Graduate Student Asso	ciation		Fall 2021 - Present	
Skills & Certifications				
R & RStudio GitHub MATLAB Microsoft Office Suite Adobe Creative Cloud Suite (e.g. Photoshop, Ill Plant identification and dichotomous key use	ustrator)			
Professional Societies				
Swedish Mycological Association			2023 - Present	
Mycological Society of America			2023 - Present	
Arizona Mushroom Society			2022 - Present	
Relevant Graduate Coursework				
Statistical Methods I & II Mycology Grant Writing Other	Concepts in Ecology Ir	arth and Environm ntegrated Forest He nicrobial Network s		
Other				

Citizenship: USA and Sweden

Professional References

Catherine (Kitty) Gehring, PhD | Regent's Professor of Biological Sciences

Northern Arizona University | 928-523-9138 | Catherine.Gehring@nau.edu | Flagstaff, AZ

Nancy Collins Johnson, PhD | Regent's Professor of Earth Sciences and Environmental Sustainability
Northern Arizona University | 928-523-6473 | Nancy.Johnson@nau.edu | Flagstaff, AZ

Jason Hoeksema, PhD | Professor of Biology
University of Mississippi | (662) 915-1275 | hoeksema@olemiss.edu | University, MS

Simon A.F. Darroch, PhD | Assistant Professor of Earth and Environmental Sciences Vanderbilt University | 615-875-8432 | simon.a.darroch@vanderbilt.edu | Nashville, TN

Michelle Casey, PhD | Assistant Professor of Biological Sciences Towson University | 763-229-3126 | mcasey@towson.edu | Towson, MD

Erik A. Sperling, PhD | Associate Professor of Geological Sciences Stanford University | 650-267-0058 | esper@stanford.edu | Stanford, CA