

## 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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### 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. Nick McKay  
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* Fall 2018  
Introductory Oceanography, Supervisor: Dr. Steven Goodbred
- 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 - July 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., Hodgins, 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

- Oral Presentation, "Common fungal networks: Exploring the "Dark Web," Bock, Beatrice; Hoeksema, J., Gehring, C.A., Johnson, N.C. 12<sup>th</sup> International Conference on Mycorrhizae, Manchester, United Kingdom, August 2024.
- Poster Presentation, "Common fungal networks: Exploring the "Dark Web," Bock, Beatrice; Hoeksema, J., Gehring, C.A., Johnson, N.C. 12<sup>th</sup> International Conference on Mycorrhizae, Manchester, United Kingdom, August 2024.

- 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

<b>Presidential Fellow</b> , Northern Arizona University, <i>Flagstaff, AZ</i> Award value: \$120,000	Fall 2021 – Present
<b>Functional Ecology Prize Winner</b> Best posters at the 12 <sup>th</sup> international Conference on Mycorrhizae in United Kingdom. Award amount: \$100	August 2024
<b>Arizona Mushroom Society Award</b> Funding towards covering invited speaker expenses at MSA conference 2024. Award value: \$500	Summer 2024
<b>MSA-funded Symposium</b> MSA-awarded funding to cover invited speaker expenses to symposium at the MSA Conference 2024. Award amount: \$5,000	Summer 2024
<b>New Phytologist Foundation Innovation Grant</b> Funding to cover invited speaker expenses to MSA Conference 2024. Award value: \$2,500	Summer 2024
<b>Student Awardee at 2024 EMSL Summer School: 1000 Fungal Proteins: Gene to Structure Determination</b>	July 2024
<b>Graduate Student Government Travel Award</b> , Northern Arizona University, <i>Flagstaff, AZ</i> Award amount: \$500	Spring 2024
<b>Finalist – Sweden-America Foundation Fellowship</b>	Spring 2024
<b>Support for Graduate Students (SGS) Award</b> , Northern Arizona University, <i>Flagstaff, AZ</i> Funding towards student-led research projects. Award value: \$2,675.	2023 – 2024
<b>Fellow</b> , Hawkesbury Institute for the Environment, Western Sydney University, <i>Sydney, AUS</i> NSF-sponsored graduate course in co-invasion biology ( <a href="https://coinvasions.olemiss.edu/">https://coinvasions.olemiss.edu/</a> ) Mentors: Drs. Jason Hoeksema, Steven Brewer, Carla D'Antonio, Nicole Hynson, Rytas Vilgalys	May 2023
<b>ARCS Scholar</b> Achievement Rewards for College Scientists. Award value: \$8,500.	2023 – 2024
<b>James Rominger Scholarship</b>	2022

Award value: \$500	
<b>Dr. Leathers Graduate Student Scholarship</b> , Arizona Mushroom Society	2022
Award value: \$1,000	
<b>McMinn Scholar</b> , Vanderbilt University	2018 – 2020
Fully funded tuition and independent research. Award value: ~\$128,000	
<b>Dean’s Undergraduate Advisory Board Member</b> , Vanderbilt University	2018 – 2020
<b>President of Wilderness Skills Course 101</b> , Vanderbilt University	Fall 2019 – Spring 2020
<b>National Merit Scholar</b> , Vanderbilt University	2016 – 2020
Award value: \$8,000	
<b>Dean’s List</b> , Vanderbilt University	2016 – 2020
<b>President of Geology Club</b> , Vanderbilt University	2018 – 2019
<b>Vaughan Scholar</b> , Vanderbilt University	2018
Provided funds for summer research at Vanderbilt University. Award value: \$1,450	
<b>Alberstadt-Reesman-Stearns Field Studies Scholar</b>	2018
Funded a 3-week field course in the Colorado Plateau	
<b>McLamore Foundation Scholar</b>	2016

### Volunteer Service/Outreach

<b>Founder and Organizer of “Aloha Shirt Mondays”, NAU.</b> Increased attendance to NAU Biology Department seminars.	Spring 2024-Present
<b>Functional Ecology</b> Blog Author: “Beatrice Bock: Becoming a scientist wasn’t a mistake, just a happy little accident.” <a href="https://functionalecologists.com/2024/09/25/beatrice-bock-becoming-a-scientist-wasnt-a-mistake-just-a-happy-little-accident/">https://functionalecologists.com/2024/09/25/beatrice-bock-becoming-a-scientist-wasnt-a-mistake-just-a-happy-little-accident/</a>	Sep 25, 2024
<b>Science on Tap Speaker:</b> Mysterious Mushrooms and Fungal Friends: The story of how plants interact with each other through fungi. Science presentation to the public at Mother Road Brewing Company, Flagstaff, AZ.	Sep 12, 2024
<b>Organizer of Symposium at MSA 2024 Conference:</b> “Expanding common mycorrhizal networks: novel analyses, methodological advances, conceptual developments, and the future of network research”. Obtained funding to cover all expenses for all invited speakers. Toronto, Canada	June 2024
<b>Invasive Species Education</b> at Kinsey Elementary. Led a discussion and activity to teach 50 fifth-grade students about local invasive species.	May 2024
<b>Citation Management Software Workshop Leader</b> , NAU	Fall 2023
<b>Conference Session Moderator</b> , Soil Fungi and Nutrient Cycling, Mycological Society of America Annual Conference, Flagstaff, AZ	Summer 2023
<b>New Phytologist Manuscript Reviewer</b>	Jan 2023
<b>Applied Soil Ecology Manuscript Reviewer</b>	Dec 2022
<b>Co-organizer and Moderator of Special Session</b> , “Considering host-microbial interactions in ecosystem restoration” at the 16th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region, Flagstaff, AZ	Summer 2022
<b>Member</b> , NAU Biology Graduate Student Association	Fall 2021 - Present

### Skills & Certifications

R & RStudio  
 GitHub  
 MATLAB  
 Microsoft Office Suite  
 Adobe Creative Cloud Suite (e.g. Photoshop, Illustrator)  
 Plant identification and dichotomous key use

### Professional Societies

Swedish Mycological Association	2023 - Present
Mycological Society of America	2023 - Present
Arizona Mushroom Society	2022 - Present

## Relevant Graduate Coursework

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Statistical Methods I & II  
Mycology  
Grant Writing

Visualizing Scientific Results  
Concepts in Ecology  
Stable Isotope Ecology

Earth and Environmental Data Analysis  
Integrated Forest Health  
Microbial Network seminar

## Other

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Citizenship: USA and Sweden

## Professional References

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**Catherine (Kitty) Gehring, PhD** | Regent's Professor of Biological Sciences  
Northern Arizona University | 928-523-9138 | [Catherine.Gehring@nau.edu](mailto: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](mailto:Nancy.Johnson@nau.edu) | Flagstaff, AZ

**Jason Hoeksema, PhD** | Professor of Biology  
University of Mississippi | (662) 915-1275 | [hoeksema@olemiss.edu](mailto: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](mailto:simon.a.darroch@vanderbilt.edu) | Nashville, TN

**Michelle Casey, PhD** | Assistant Professor of Biological Sciences  
Towson University | 763-229-3126 | [mcasey@towson.edu](mailto:mcasey@towson.edu) | Towson, MD

**Erik A. Sperling, PhD** | Associate Professor of Geological Sciences  
Stanford University | 650-267-0058 | [esper@stanford.edu](mailto:esper@stanford.edu) | Stanford, CA

Commented [BB1]: Update?