

Dr. Brian Beadle

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RESEARCH INTERESTS

Applied microeconometrics, Bayesian modeling, composite indicators, (agricultural) sustainability, well-being

EDUCATION

Ph.D. Economics (<i>magna cum laude</i>)	2023
Martin Luther University Halle-Wittenberg	Halle, DE
M.Sc. Socio-Ecological Economics and Policy	2017
Vienna University of Economics and Business	Vienna, AT
B.Sc. Economics and Business Administration	2014
University of Wisconsin - Stevens Point	Wisconsin, USA

WORK EXPERIENCE

Assistant Professor of Arctic Social Sciences and Economics	2024 - present
University of Greenland	Nuuk, GL
Assistant Professor of Economics	2024
Abraham Baldwin Agricultural College	Georgia, USA
Assistant Professor of Socially Responsible Management	2023 - 2024
Northland College	Wisconsin, USA
Doctoral Researcher	2018 - 2023
Leibniz Institute of Agricultural Development in Transition Economies	Halle, DE
Teaching Assistant	Summer Semester, 2022
Martin Luther University Halle-Wittenberg	Halle, DE
Scientific Staff	2019
Poznań University of Economics and Business	Poznań, PL

CURRENT RESEARCH PROJECTS

- Title:** Modeling well-being using multidimensional Bayesian item response theory: An application of Amartya Sen's capability approach.
Organizing institution: Leibniz Institute of Agricultural Development in Transition Economies.
Role: Research Associate.
- Title:** Development of a resilient and sustainable irrigated rice cultivation system.
Organizing institution: Japan International Research Center for Agricultural Sciences.
Role: Research Associate.

PUBLICATIONS

Peer reviewed

1. Beadle, B., Brosig, S. & Wunder, C. (2024). An Application of Item Response Theory for Agricultural Sustainability Measurement. *Journal of Agricultural, Biological & Environmental Statistics* (2024). <https://doi.org/10.1007/s13253-024-00666-2>

Works in progress

1. Modeling well-being capabilities using Bayesian multidimensional item response theory (with Antje Jantsch and Johnson Kansime).
2. A comparative analysis on the farm-level sustainability of conventional versus organic production in Germany (with Stephan Brosig).

Non-peer reviewed

4. Beadle, B., Brosig, S., Wunder, C. (2024). An application of item response theory for agricultural sustainability measurement. [GitHub repository]. Available at: <https://github.com/brianbeadle/as-irt>.
5. Beadle, B., Brosig, S., and Wunder, C. (2023). Sustainability of farms producing non-food crops. *IAMO Annual 2023*.
6. Beadle, B., Brosig, S., Wunder, C. (2023). Agricultural sustainability index code. [GitHub repository]. Available at: https://github.com/brianbeadle/sustainability/textunderscore_index.
7. Beadle, B., Delgado Osorio, X., Gierke, M., Gorenflos, J., Perez-Bosch Quesada, E., Rizzi, T., Rohr, B. (2022). Being a Doctoral Researcher in the Leibniz Association: Perspectives on graduate school. *SSOAR*.
8. Beadle, B., Do, S., El Yousseoufi, D., Felder, D., Gorenflos López, J., Jahn, A., ... Weltin, M. (2020). Being a Doctoral Researcher in the Leibniz Association: 2019 Leibniz PhD Network survey report. *SSOAR*.

COURSES TAUGHT

University of Greenland

Growth and Inequality

Spring 2025

Abraham Baldwin Agricultural College, Stafford School of Business

Principles of Microeconomics (3 sections)

Fall 2024

Principles of Macroeconomics

Fall 2024

Northland College, Faculty of Social Sciences

Financial Literacy for Everyone	May 2024
Technology and Communication	Spring 2024
Legal and Ethical Environment of Business	Spring 2024
Corporate Social Responsibility	Fall 2023
Essentials of Economics	Fall 2023

Martin Luther University, Faculty of Law, Economics, and Business

Introductory Econometrics	Summer 2022
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CONFERENCE AND WORKSHOP PRESENTATIONS

1. Modeling well-being capabilities using Bayesian multidimensional item response theory (presented by Johnson Kansiiime). *22nd Annual Conference of the International Society for Quality of Life Studies*. June, 2024. Kota Kinabalu, Malaysia.
2. Assessing changes to farm sustainability in the conversion to organic production. *Bamberg-Halle-Jena-Leipzig Workshop: Empirical Microeconomics/Applied Microeconometrics*. January, 2023. Leipzig, DE.
3. Analysis of (non-)food crop production and farm-level sustainability in Germany with the application of a multidimensional index for sustainable agriculture. *4th International Conference on Natural Resource Management and Public Policy*. October, 2021. Online.
4. Trends in non-food crop production and farm-level sustainability: A multidimensional analysis in German agriculture. *2021 IAMO Forum: Agrifood systems in the bioeconomy*. June, 2021. Online.
5. Multidimensional sustainability of farming systems: A composite indicator for German agricultural sustainability. *10th Bamberg-Halle-Jena-Leipzig Workshop on Empirical Microeconomics/Applied Microeconometrics*. July, 2020. Online.
6. Decoupling in an innovation-driven bioeconomy: A long wave perspective. *Early-Career Researcher Seminar on (New) Sustainable Economies*. November, 2019. Freiburg, DE.

SERVICE

- **Program Assessment Committee**, Abraham Baldwin Agricultural College, 2024 - *present*
- **Member of Northland College Center for Rural Communities**, 2023 - 2024
- **Curriculum development**, Northland College, 2024
- **Conference submission reviewer**, IAMO Forum, 2019 - 2023
- **Spokesperson**, IAMO PhD Council, 2019 - 2022
- **Organizer**, IAMO PhD General Assemblies, 2019 - 2022

- **Survey analyst**, Leibniz PhD Network and N² Network, 2019 - 2022
- **Conference assistant**, Leibniz PhD Network General Assemblies, 2020 - 2021
- **Conference assistant**, annual IAMO Forum, 2018 - 2019
- **Research coordinator**, UWSP Economics Club, 2012 - 2013

FUNDING AND AWARDS

- **Faculty Development Funding** (field research), Northland College, 2024
- **PhD Scholarship** (3 years), IAMO, 2020 - 2023
- **Teaching Assistantship** (6 months), DAAD, 2022
- **IAMO Alumni Prize** (awarded to PhD Council), IAMO, 2022

CERTIFICATES

- **Doctoral Certificate in Agricultural Economics**, IAMO, 2023
- **Third-Party Funding Training Certificate**, IAMO, 2019
- **Empowerment and Sensitivity Training Certificate**, IAMO, 2019

SOFTWARE

Statistics: STATA, R Statistical Software (including brms, shiny, ggplot2)
Word processing: L^AT_EX, Word
Survey software: Limesurvey, Qualtrics