

Dr. Brian Beadle

Curriculum Vitae

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Research interests

- Methods: Applied microeconometrics, machine learning, composite indicators, surveys
Subjects: Socio-ecological economics, welfare economics, agricultural and rural development

Education

- 2023 Ph.D. Economics, *magna cum laude*, Martin Luther University Halle-Wittenberg
2017 M.Sc. Socio-Ecological Economics and Policy, Vienna University of Economics and Business; Exchange semester, University of Illinois Urbana-Champaign
2014 B.Sc. Business Economics, University of Wisconsin – Stevens Point

Professional appointments

- 2024-present Assistant Professor of Arctic Social Science and Economics, University of Greenland
2024 Assistant Professor of Economics, Abraham Baldwin Agricultural College (ABAC)
2023-2024 Assistant Professor of Socially Responsible Management, Northland College
2018-2023 Doctoral Researcher, Leibniz Institute of Agricultural Development in Transition Economies (IAMO)
2022 Teaching Assistant, Martin Luther University

Research projects

- 2026–2028 *Modeling technology adoption motivations among smallholder rice farmers.*
Funding organization: Japan International Research Center for Agricultural Sciences. Role: Co-PI.
2023–2025 *Development of a resilient and sustainable irrigated rice cultivation system.*
Funding organization: Japan International Research Center for Agricultural Sciences. Role: Co-PI.

Peer-reviewed publications

1. **Beadle, B.**, Brosig, S. & Wunder, C. (2024). An application of item response theory for agricultural sustainability measurement. *Journal of Agricultural, Biological & Environmental Statistics*. doi: [10.1007/s13253-024-00666-2](https://doi.org/10.1007/s13253-024-00666-2).

Working papers

1. Operationalizing Sen's capability approach using Bayesian item response theory (with Johnson Kansiime and Antje Jantsch). Under review at *Social Indicators Research*.
2. Subsistence versus profit in farm succession planning: A mixed-methods study in Cambodia (with Fumi Okura and Davy Sao). Submitted to the *Journal of Rural Studies*.

3. Economic growth in Greenland: Divergence and convergence in the Nordic region (with Javier Arnaut). Submitted to the *Journal of Comparative Economics*.
4. Simulating agricultural transition: An agent-based model of farm exit, land consolidation, and water user associations (with Fumi Okura).
5. A Bayesian approach to estimating development indicators in small Arctic populations: An application to Greenland's Gender Inequality Index.

Non-peer-reviewed publications

1. **Beadle, B.**, Brosig, S., and Wunder, C. (2023). Sustainability of farms producing non-food crops. *IAMO Annual 2023*. Available at: www.iamo.de/fileadmin/user_upload/Bilder_und_Dokumente/05-publikationen/annuals/iamo2023_en_web.pdf.
2. **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. *Social Science Open Access Repository (SSOAR)*. Available at: ssoar.info/ssoar/handle/document/81459.
3. **Beadle, B.**, Do, S., El Youssoufi, 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. *Social Science Open Access Repository (SSOAR)*. doi: [10.13140/RG.2.2.29723.44320](https://doi.org/10.13140/RG.2.2.29723.44320).

Published code & resources

1. **Beadle, B.** (2026). Subsistence versus profit in farm succession planning: A mixed-methods study in Cambodia [Github repository]. Available at: anonymous.4open.science/r/succession-5122.
2. **Beadle, B.** (2026). Statistics [Tutorial series in R]. Available at: brianbeadle.github.io/statistics.
3. **Beadle, B.** (2026). Economic growth in Greenland: Divergence and convergence in the Nordic region [Github repository]. Available at: anonymous.4open.science/r/convergence-FD88.
4. **Beadle, B.** (2025). Advanced Economic Methods [Tutorial series in R]. Available at: brianbeadle.github.io/aem.
5. **Beadle, B.**, Kansiime, J., Jantsch, A. (2025). Operationalizing Sen's capability approach using Bayesian item response theory [Github repository]. Available at: github.com/brianbeadle/capability-irt.
6. **Beadle, B.**, Brosig, S., Wunder, C. (2024). An application of item response theory for agricultural sustainability measurement [Github repository]. Available at: github.com/brianbeadle/as-irt.
7. **Beadle, B.**, Brosig, S., Wunder, C. (2023). Agricultural sustainability index code [Github repository]. Available at: github.com/brianbeadle/sustainability_index.

Conferences and workshops

1. Socioeconomic conditions in Cambodian rice farming and their role in predicting farm succession: A case study in the Damnak Ampil irrigation scheme. *2025 IAMO Forum: Rural Roots and Routes*. June, 2025. Halle (Saale), Germany
2. Assessing changes to farm sustainability in the conversion to organic production.
Bamberg-Halle-Jena-Leipzig Workshop: Empirical Microeconomics/Applied Microeconometrics. January, 2023. Leipzig, Germany.
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, Germany.

Courses taught

2025-2026	Advanced Economic Methods (graduate), Economic Development in the Arctic (co-taught with Rikke Østergaard), Statistics, Inequality and Growth, Master Thesis Seminar (Sections: Theory and Conceptual Frameworks, Methodology and Data)
2024-2025	Principles of Microeconomics (3 sections), Principles of Macroeconomics, Inequality and Growth, Methods (co-taught with Mitdlarak Lennert)
2023-2024	Financial Literacy for Everyone, Technology and Communication, Legal & Ethical Environment of Business, Corporate Social Responsibility, Essentials of Economics
2022	Introductory Econometrics (TA)

International collaborations and networks

Academic:	Japan International Research Center for Agricultural Sciences; IAMO (Germany), Center for Sustainable Water Management (Cambodia); Analyzing Development Issues Centre (Cambodia); National University of Laos
Government:	Ministry of Agriculture, Forestry, and Fisheries (Cambodia); Pursat Provincial Department of Agriculture, Forestry, and Fisheries (Cambodia)
NGO:	Oceans North Kalaallit Nunaat (Greenland)
Community:	Local water user groups in Cambodia and Laos (household-level data collection)

Referee services

Journals	Social Indicators Research
Conferences	IAMO Forum (2019–2023, 2025)

Academic awards and honors

2024	Faculty Development Funding (field research), Northland College
2023	Magna cum laude distinction, Ph.D., Martin Luther University
2020–2023	PhD Scholarship (3 years), IAMO
2022	Teaching Assistantship (6 months), German Academic Exchange Service (DAAD)
2022	IAMO Alumni Prize (awarded to PhD Council), IAMO

Certificates

2026	University Pedagogy Training, University of Greenland
2023	Doctoral Certificate in Agricultural Economics, IAMO
2019	Third-Party Funding Training Certificate, IAMO
2019	Empowerment and Sensitivity Training Certificate, IAMO

Academic services

2024	Committee Member, Program Assessment Committee, ABAC
2024	Curriculum Development, Northland College
2023–2024	Committee Member, Northland College Center for Rural Communities
2019–2022	Spokesperson, IAMO PhD Council
2019–2022	Organizer, IAMO PhD General Assembly
2020–2021	Conference Assistant, Leibniz PhD Network General Assembly
2019–2021	Survey Analysis, Leibniz PhD Network and N ² Network
2018–2019	Conference Assistant, Annual IAMO Forum
2012–2013	Research Coordinator, UWSP Economics Club

Software	Stata, R, L ^A T _E X, Survey Solutions, Limesurvey, Qualtrics
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