

# Dr. Brian Beadle

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## Research interests

Applied microeconometrics, socio-ecological economics, wellbeing, agricultural and rural development

## Education

2023	Ph.D. Economics, <i>magna cum laude</i> , 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 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

## Teaching qualifications & curriculum development

Pedagogy	University Pedagogy Training (Universitetspædagogikum), University of Greenland (2026)
Curriculum	Curriculum design and module coordination, Northland College (2024), Program Assessment Committee, ABAC (2024)

## Courses taught

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

## Research projects

2026–2028	<i>Modeling technology adoption motivations among smallholder rice farmers.</i> Japan International Research Center for Agricultural Sciences. Research Associate.
2023–2025	<i>Development of a resilient and sustainable irrigated rice cultivation system.</i> Japan International Research Center for Agricultural Sciences. Research Associate.

## 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).
2. **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](http://www.iamo.de/fileadmin/user_upload/Bilder_und_Dokumente/05-publikationen/annuals/iamo2023_en_web.pdf).
3. **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](https://ssoar.info/ssoar/handle/document/81459).
4. **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).

## Working papers

1. Operationalizing Sen's capability approach using Bayesian item response theory (with Johnson Kansime and Antje Jantsch). Revise and resubmit at *Social Indicators Research*.
2. Subsistence versus profit in farm succession planning: A mixed-methods study in Cambodia (with Fumi Okura and Davy Sao). Under review at the *Journal of Rural Studies*. Preprint available at SSRN: [doi.org/10.2139/ssrn.6682178](https://doi.org/10.2139/ssrn.6682178).
3. Economic growth in Greenland: Divergence and convergence in the Nordic region (with Javier Arnaut). Under review at *Economic Change and Restructuring*.
4. Smoothing rare-event development indicators in small isolated populations: A Bayesian GAM approach. Under review at *Demographic Research*
5. Who thrives where? A Bayesian multilevel analysis of personality traits and individual capability (with Johnson Kansime and Antje Jantsch).
6. Agricultural sustainability in rice irrigation schemes under different institutional settings (with Fumi Okura, Davy Sao, and Iep Keovongsa).

## Published teaching materials & code

1. **Beadle, B.** (2026). MMR simulations and application [Github repository]. Available at: [anonymous.4open.science/r/mmr-simulation-8062](https://anonymous.4open.science/r/mmr-simulation-8062).
2. **Beadle, B.** (2026). Statistics [Tutorial series in R]. Available at: [brianbeadle.github.io/statistics](https://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](https://anonymous.4open.science/r/convergence-FD88).

4. **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](https://anonymous.4open.science/r/succession-5122).
5. **Beadle, B.** (2025). Advanced Economic Methods [Tutorial series in R]. Available at: [brianbeadle.github.io/aem](https://brianbeadle.github.io/aem).
6. **Beadle, B.**, Kanssiime, J., Jantsch, A. (2025). Operationalizing Sen's capability approach using Bayesian item response theory [Github repository]. Available at: [anonymous.4open.science/r/capabilities-index-1D99](https://anonymous.4open.science/r/capabilities-index-1D99).
7. **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](https://github.com/brianbeadle/as-irt).
8. **Beadle, B.**, Brosig, S., Wunder, C. (2023). Agricultural sustainability index code [Github repository]. Available at: [github.com/brianbeadle/sustainability\\_index](https://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.

### International collaborations and networks

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| 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)  |

## Referee services

Social Indicators Research, 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

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

## Academic services

2026	Member, Language Committee, University of Greenland
2025-2026	Organizer, Academic Friday Presentations, University of Greenland
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 <sup>2</sup> Network
2018–2019	Conference Assistant, Annual IAMO Forum
2012–2013	Research Coordinator, UWSP Economics Club

## Software and programming

R, Stata, Python, L<sup>A</sup>T<sub>E</sub>X, HTML, Git, Survey Solutions, LimeSurvey, Qualtrics

## Languages

English (native), German (A1)