

Nathalie J. Lambrecht, PhD

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EDUCATION

- 2021 **University of Michigan School of Public Health, Ann Arbor, MI**
Doctor of Philosophy (PhD), Nutritional Sciences
Advisor: Andy Jones, PhD
- 2014 **Saint Mary's College of California, Moraga, CA**
Bachelor of Science (BS), Health Science

PROFESSIONAL EXPERIENCE

- 10/2024 – present **Stanford University School of Medicine, Stanford, CA**
Planetary Health Postdoctoral Fellow, Center for Innovation in Global Health
Ref: Michele Barry, MD, FACP; Steve Luby, MD
- 2/2025 – present **London School of Hygiene & Tropical Medicine, London, UK**
Honorary Research Fellow
Ref: Peninah Murage, PhD
- 6/2021 – 8/2024 **Research Department 2 – Climate Resilience, Potsdam Institute for Climate Impact Research, Germany**
Postdoctoral Researcher (Guest Scientist), Climate Change and Health Working Group
- 6/2021 – 8/2024 **Institute of Public Health, Charité - Universitätsmedizin Berlin, Germany**
Postdoctoral Research Associate
Ref: Prof. Sabine Gabrysch
- 10/2019 – 5/2020 **University of Michigan, Ann Arbor, MI**
Research Assistant, President's Commission on Carbon Neutrality Food Analysis Team
- 1/2015 – 7/2016 **University of Michigan Health System, Ann Arbor, MI**
Research Technician Associate, Division of Neonatal-Perinatal Medicine

FELLOWSHIPS

- 10/2024 – 7/2026 **Planetary Health Postdoctoral Fellowship, Stanford University**
This fellowship supports early-career researchers in conducting cutting-edge research on human and planetary health challenges. It is run in partnership between Stanford University and the London School of Hygiene & Tropical Medicine.
- 1/2019 – 12/2019 **Dow Sustainability Fellowship, University of Michigan**
This fellowship support doctoral students in conducting interdisciplinary, actionable, and sustainability-focused research on local-to-global scales.
- 8/2016 – 5/2021 **Rackham Merit Fellowship, University of Michigan**
This fellowship provides tuition and stipend support to doctoral students with outstanding academic achievements and exceptional potential for success.

HONORS AND AWARDS

- 2014 Julie A. Pryde Award for Outstanding Scholarship as a Health Sciences Major, Saint Mary's College of California
- 2012 Joseph P. McKenna Undergraduate Summer Research Competition First Place Awardee, Saint Mary's College of California

PUBLICATIONS

Peer-reviewed publications

1. Müller-Hauser AA, Huda T, Sobhan S, **Lambrecht NJ**, Waid JL, Wendt AS, Ali S, Rahman M, Gabrysch S. Effect of a Homestead Food Production and food hygiene intervention on biomarkers of environmental enteric dysfunction in children under 24 months in rural Bangladesh: A cluster-randomized controlled trial. *The American Journal of Tropical Medicine and Hygiene*, 2023; 109: 1166-1176
2. **Lambrecht NJ**, Müller-Hauser AA, Sobhan S, Schmidt WP, Huda TMD, Waid JL, Wendt AS, Kader A, Gabrysch S. Effect of a Homestead Food Production program on the prevalence of diarrhea and acute respiratory infection in children in Sylhet, Bangladesh: A cluster-randomized controlled trial. *The American Journal of Tropical Medicine and Hygiene*, 2023; 109: 945-956.
3. Wendt AS, Brintrup J, Waid JL, Kader A, **Lambrecht NJ**, Gabrysch S. Thalassemia and hemoglobinopathy prevalence in a community-based sample in Sylhet, Bangladesh. *Orphanet Journal of Rare Diseases*, 2023; 18:192.
4. **Lambrecht NJ**, Hoey L, Bryan A, Heller M, Jones AD. Limiting red meat availability in a university food service setting reduces food-related greenhouse gas emissions by one-third. *Climatic Change*, 2023; 176:67
5. Cheek J, **Lambrecht NJ**, den Braber B, Akanchha N, Govindarajulu D, Jones A, Chhatre A, Rasmussen LV. Wild foods contribute to higher women's dietary diversity in India. *Nature Food*, 2023; 476-482.
6. **Lambrecht NJ**, Waid JL, Wendt AS, Sobhan S, Kader A, Gabrysch S. Impact of a Homestead Food Production program on poultry rearing and egg consumption: a cluster-randomized controlled trial in Bangladesh. *Maternal & Child Nutrition*, 2023; e13505.
7. Badr HS, Colston JM, Nguyen NH, [...] Kosek MN. Spatiotemporal variation in risk of *Shigella* infection in childhood: a global risk mapping and prediction model using individual participant data. *The Lancet Global Health*, 2023; e373–e384. [59 authors]
8. **Lambrecht NJ**, Bridges D, Wilson ML, Adu B, Eisenberg JN, Folson G, Baylin A, Jones AD. Associations of bacterial enteropathogens with systemic inflammation, iron deficiency, and anemia in preschool-age children in southern Ghana. *PloS ONE*, 2022; e0271099.
9. Pörtner LM, **Lambrecht N**, Springmann M, Bodirsky BL, Gaupp F, Freund F, Lotze-Campen H, Gabrysch S. We need a food system transformation—In the face of the Russia-Ukraine war, now more than ever. *One Earth*, 2022.
10. **Lambrecht NJ**, Wilson ML, Bridges D, Eisenberg JNS, Adu B, Baylin A, Folson G, Jones AD. Ruminant-related risk factors are associated with Shiga toxin-producing *Escherichia coli* infection in children in southern Ghana. *The American Journal of Tropical Medicine and Hygiene*, 2021; 513-522.
11. Jones AD, Shi Z, **Lambrecht NJ**, Jiang Y, Wang J, Burmeister M, Li M, Lozoff B. Maternal overweight and obesity during pregnancy are associated with neonatal, but not maternal, hepcidin concentrations. *The Journal of Nutrition*, 2021; 1–9.
12. Awuah RB, Colecraft EK, Wilson ML, Adjorlolo LK, **Lambrecht NJ**, Nyantakyi-Frimpong H, Jones AD. Perceptions and beliefs about anaemia: A qualitative study in three agroecological regions of Ghana. *Maternal & Child Nutrition*, 2021; e13181.

13. **Lambrecht NJ**, Wilson ML, Baylin A, Folsom G, Naabah S, Eisenberg JNS, Adu B, Jones AD. Associations between livestock ownership and lower odds of anaemia among children 6–59 months old are not mediated by animal-source food consumption in Ghana. *Maternal & Child Nutrition*, 2021; e13163.
14. Sonnevile KR, Rose KL, **Lambrecht NJ**, Barry MR, Weeks HM, Leung CW. Weight bias among public health trainees. *Public Health Nutrition*, 2020; 1-4.
15. Michels KR, **Lambrecht NJ**, Carson IV W, Schaller MA, Lukacs NW, Bermick JR. The role of iron in the susceptibility of neonatal mice to *Escherichia coli* K1 sepsis. *The Journal of Infectious Diseases*, 2019; jiz282.
16. **Lambrecht NJ**, Wilson ML, Jones AD. Assessing the impact of animal husbandry and capture on anemia among women and children in low- and middle-income countries: a systematic review. *Advances in Nutrition*, 2019; 10:331-344.
17. Jones AD, Colecraft E, Awuah R, Boatema S, **Lambrecht NJ**, Adjorlolo LK, Wilson ML. Livestock ownership is associated with higher odds of anaemia among preschool-aged children, but not women of reproductive age in Ghana. *Maternal & Child Nutrition*, 2018; e12604.
18. Bermick JR, **Lambrecht NJ**, denDekker AD, Kunkel SL, Lukacs NW, Hogaboam CM, Schaller MA. Neonatal monocytes exhibit a unique histone modification landscape. *Clinical Epigenetics*, 2016; 8:99.
19. Lee S, Kim K, **Lambrecht NJ**, Hong J, Liao YH, Yoon A, Bernard JR. Interaction of resistance training, electroacupuncture and *Huang Qi* supplementation on skeletal muscle function and GLUT4 protein concentration in rats. *Acupuncture in Medicine*, 2016; 34(5):380-385.

Peer-reviewed book chapters

1. Jones AD, **Lambrecht NJ**, Gersten Z. Global Food Systems. In: *Modern Nutrition of Health and Disease*, 12th ed. (Tucker KL, Ross AC, Jensen GL, Peterson KE, Touger-Decker R, Duggan CP, eds.), 2024.

Non-peer-reviewed publications

1. Lambrecht N. Understanding the Role of Livestock Ownership on Anemia among Young Children in Ghana. 2021. [PhD dissertation]
2. Hoey L, Jones A, Baloga C, Bellaire S, Harley R, Jaruzel M, **Lambrecht N**. University of Michigan President's Commission on Carbon Neutrality Food Internal Analysis Team Final Report and Recommendations. 2020.

In preparation and under review

1. **Lambrecht NJ**, Sparling T, Mayer A, Waid JL, Wendt AS, Ali M, Gabrysch S. Impact pathways of a homestead food production intervention: causal mediation analysis of the FAARM cluster-randomized trial in rural Bangladesh. (*submitted*)
2. Pörtner L, Schlenger L, Gabrysch S, **Lambrecht NJ**. Dietary quality and environmental footprint of healthcare foodservice: A quantitative assessment using dietary indices and life-cycle analysis data. (*under review, The Lancet Planetary Health*)
3. Kehlenbeck K, Waid JL, **Lambrecht NJ**, Wendt AS, Gabrysch S. Impact of a homegardening intervention on crop diversity: Results from a cluster-randomized trial in Bangladesh. (*under review, Food Security*)
4. Wendt AS, Waid JL, Müller-Hauser A, **Lambrecht NJ**, Huda TMN, Kyei N, Gabrysch S. Impacts of a homestead food production intervention on anemia and micronutrient deficiencies among women and children in rural Bangladesh: a cluster-randomized trial. (*in revision, Maternal & Child Nutrition*)
5. Dimitrova A, **Lambrecht NJ**, Benmahrnia T. Can primary education reforms help mitigate the negative impacts of droughts on children's nutritional outcomes in sub-Saharan Africa? Evaluation of policy changes in 10 countries. (*under review, Nature Sustainability*)

6. Münz TS, Pradella F, **Lambrecht NJ**, Gabrysch S, van Ewijk R. Lower ambient temperatures before conception are associated with improved metabolic outcomes in late adulthood. (*submitted*)
7. Pörtner LM, Candel J, Creutzig F, Finger R, Gabrysch S, **Lambrecht NJ**, Lotze-Campen H, Pradhan P, Springman M. Food systems are central to urban climate action (*submitted*)
8. Cheek JZ, den Braber B, **Lambrecht NJ**, Corbett PE, Vansant EC, Agrawal A, Brandt M, Rasmussen LV. Trees buffer the short-term effects of heavy rainfall shocks on household food insecurity. (*in prep*)
9. **Lambrecht NJ**, Pörtner L, Gabrysch S. Implementing dietary change in a nursing home – a mixed-methods analysis of a 2-week pilot study. (*in prep*)
10. Müller-Hauser A, **Lambrecht NJ**, Sobhan S, Waid JL, Huda TMN, Nurjadi D, Wendt AS, Rahman M, Gabrysch S. Associations of enteric pathogens with fecal markers of enteric dysfunction and growth among young children in rural Bangladesh. (*in prep*)
11. Millbank C, den Braber B, **Lambrecht NJ**, Rasmussen LV, Vira B, Cheek JZ. Diversified food sourcing linked to better food security and dietary diversity in rural India. (*in prep*)
12. Myers S et al. A resilient and stable Earth system is critical for human health. (*in prep*)

CONFERENCE PRESENTATIONS

Oral presentations

1. **Lambrecht NJ**, Pörtner LM, Schlenger L, Gabrysch S. Healthiness and sustainability of food service in healthcare settings in Germany. European Public Health Conference, Dublin, Ireland, November 2023. Oral presentation.
2. **Lambrecht NJ**, Waid JL, Wendt AS, Gabrysch S. Impact of a Homestead Food Production program on poultry rearing and egg consumption in rural Bangladesh: A cluster-randomized controlled trial. Agriculture, Nutrition, and Health Academy Week 2022, Online, June 2022. Oral presentation.
3. **Lambrecht NJ**, Wilson ML, Jones AD. Food and feces: How chickens may both mitigate and exacerbate child undernutrition in Ghana. Michigan University-Wide Sustainability and Environment Conference, Ann Arbor, MI, February 2020. Oral presentation.

Poster presentations

1. **Lambrecht NJ**. Small-holder livestock agriculture and human health in the face of climate change. 13th Brazilian-German Frontiers of Science and Technology (BRAGFOST) Symposium, Bremen, Germany, September 2023. Invited poster presentation.
2. **Lambrecht NJ**, Müller-Hauser AA, Sobhan S, Schmidt WP, Huda TMN, Waid JL, Gabrysch S. Effect of a Homestead Food Production program on the prevalence of diarrhea and acute respiratory infection in children in Sylhet, Bangladesh: A cluster-randomized controlled trial. American Society for Tropical Medicine & Hygiene Annual Meeting, Seattle, WA, October 2022. Poster presentation.
3. **Lambrecht NJ**, Bridges D, Adu B, Wilson ML, Eisenberg JNS, Folson G, Baylin A, Jones AD. *Campylobacter* Infection in Young Ghanaian Children and Associations with Iron-deficiency and Anemia. American Society for Nutrition Annual Meeting: Nutrition 2020, Live Online, June 2020. E-poster presentation.
4. **Lambrecht NJ**, Bridges D, Wilson ML, Adu B, Eisenberg JNS, Jones AD. Examining the links between livestock ownership, *Campylobacter* infection, and anemia among young children in Greater Accra, Ghana. American Society for Tropical Medicine & Hygiene Annual Meeting, National Harbor, MD, November 2019. Poster presentation.
5. **Lambrecht NJ**, Baylin A, Folson G, Wilson ML, Jones AD. A cross-sectional study of household livestock ownership, animal-source food consumption, and anemia among children 6 to 59 months old in

- Greater Accra, Ghana. Aligning the Food System for Improved Nutrition in Animal-Source Foods Conference, Davis, CA, May 2019. Poster presentation.
6. **Lambrecht NJ**, Jones AD. Mothers' Perceptions of the Benefits and Risks of Animal Husbandry in Ghana. American Society for Nutrition Annual Meeting: Nutrition 2018, Boston, MA, June 2018. Poster presentation.
 7. **Lambrecht NJ**, Jones AD. Assessing the Impact of Livestock Husbandry on Anemia in Women and Children: A Systematic Review. Experimental Biology Conference, Chicago, IL, April 2017. Poster presentation.
 8. Bernard JR, **Lambrecht NJ**, Liao YH, Ivy, JL. The Effect of Amino Acid Supplementation and Endurance Exercise Training on Glucose Tolerance and Cell Signaling in High Fat Fed Rats. Experimental Biology Conference, Chicago, IL, April 2017. Poster presentation.
 9. **Lambrecht N**, Lee S, Kim K, Hong J, Burns MT, Bernard JR. Interaction of Resistance Training, Diet and Electroacupuncture Treatments on Skeletal Muscle Function and GLUT-4 Protein Concentration in Rats. American College of Sports Medicine Southwest Chapter 32nd Annual Meeting, Newport Beach, CA, October 2013. Poster presentation.
 10. **Lambrecht N**, Bernard JR. The Effects of Amino-Acid Supplementation, Diet and Chronic Exercise Training on Glucose Tolerance in Sprague-Dawley Rats. American Association for the Advancement of Science Annual Conference, Boston, MA, February 2013. Poster presentation.

RESEARCH SUPPORT

Active research support

Stanford Hospital Integration of Food-based Environmental Tracking (SHIFT) (6 Jan 2025 – 31 Dec 2025)

Funding Source: Stanford Plant-Based Diet Initiative (PBDI)

Total amount: \$4,885

Objective: Integrate environmental indicators into a hospital food procurement system to quantify impacts on GHG emissions, land use, acidification, eutrophication, and water use.

Role: Principal Investigator

Implementation of the Planetary Health Diet in healthcare facilities – environmental, health, and economic aspects (NURISHD) (1 Feb 2022 – 30 Sep 2025)

Funding source: Deutsche Bundesstiftung Umwelt (DBU)/German Federal Foundation for the Environment

Total amount: €150,000

Objective: Assess the status quo of food service in healthcare institutions and evaluate the feasibility of shifting food procurement toward the Planetary Health Diet as a sustainable and healthy dietary pattern.

Role: Co-Principal Investigator (Co-PI: Gabrysch)

Completed research support

Causal methods in early-life research: An interdisciplinary workshop (September 2024)

Funding source: German Alliance for Global Health Research (GLOHRA)

Total amount: €12,100

Objective: To facilitate an interdisciplinary workshop to strengthen causal evidence in early-life research and develop collaborations in the field.

Role: Co-Principal Investigator (Co-PIs: Pradella, Van Ewijk, Gabrysch)

Vegetables for schools - Investigating the impact of school gardens in Germany on nutrition (GESUND) (1 Jun 2023 – 30 Nov 2023)

Funding source: German Federal Ministry of Education and Research (BMBF)

Total amount: €74,230 (phase 1)

Objective: Develop a proposal for a randomized controlled trial to assess the impact of the GemüseAckerdemie school garden program on diets and sustainable food behaviors in elementary school children.

Role: Co-Investigator (PI: Wendt)

Planetary Health Diet in healthcare facilities (1 Jan 2022 – 31 Dec 2022)

Funding source: Climate Change Center Berlin Brandenburg

Total amount: €16,000

Objective: Examine the knowledge and attitudes of stakeholders in German healthcare institutions to identify barriers and potential solutions to shifting food service toward sustainable and healthy diets.

Role: Co-Principal Investigator (Co-PI: Gabrysch)

Understanding the role of livestock husbandry on anemia among young children in Ghana (1 Jan 2019 – 31 Dec 2019)

Funding source: Dow Sustainability Fellows Program at the University of Michigan

Total amount: \$15,000

Objective: Cover laboratory expenses to analyze enteropathogen infections in a cross-sectional sample of children under five in Ghana and assess associations with household livestock ownership.

Role: Principal Investigator (Doctoral student)

The role of livestock husbandry on anemia among young children in Ghana (1 Sep 2018 – 31 Dec 2018)

Funding sources: University of Michigan Rackham Graduate School Fellowships Office, University of Michigan LSA African Studies Center, Office of Global Public Health Pre-Dissertation Travel Award

Total amount: \$14,500

Objective: Assess the relationship between household livestock ownership and anemia in children under five in Ghana through dietary and infectious disease pathways.

Role: Doctoral student

Assessing the impact of animal husbandry on anemia in Ghana: a formative research project (1 Jun 2017 – 31 Jul 2017)

Funding sources: University of Michigan Rackham Graduate School Fellowships Office, University of Michigan LSA International Institute

Total amount: \$5,000

Objective: Identify the common livestock management practices of rural Ghanaian households and understand behaviors and perceptions around livestock husbandry that may contribute to child anemia through observational work and interviews.

Role: Doctoral student

TEACHING

2022 – 2024	Co-instructor, Planetary Health: Health of people and planet in the Anthropocene, Charité Universitätsmedizin Berlin (3 semesters)
2022	Guest Lecturer, Master of Science in International Health, Heidelberg University
2019, 2020	Guest Lecturer, NUTR644: Global Food Systems Policy, University of Michigan
2019	Graduate Student Instructor, PUBHLTH482: Writing in Public Health, University of Michigan (1 semester)
2018	Graduate Student Instructor, NUTR631: Metabolism of Vitamins and Minerals, University of Michigan (1 semester)

STUDENT ADVISING

MS Students

2023 Kimberly Wunderlich, M.Sc. Anhalt University of Applied Sciences, Germany
Role: Co-Supervisor

PROFESSIONAL ACTIVITIES AND SERVICE

Department, School, and University Service

2023 – 2024 Strategy Committee, Climate Change and Health Working Group, Potsdam Institute for
Climate Impact Research

2020 – present Pre-Publication Support Service (PREPSS) Peer Reviewer, University of Michigan

2019 – 2020 Michigan University-Wide Sustainability & Environment (MUSE) Workshop Co-
ordinator and Conference Committee Member, University of Michigan

2017 – 2020 Diversity, Equity, and Inclusion (DEI) Committee, Nutritional Sciences Department
Student Representative, School of Public Health, University of Michigan

Professional Membership

- Member, Planetary Health Alliance (2022 – present)
- Member, Agriculture, Nutrition, and Health Academy (2021 – present)
- Member, American Society of Tropical Medicine and Hygiene (2021 – present)
- Member, American Society for Nutrition (2017 – present)

Scientific Journal Review

- Nature Sustainability
- The Lancet Planetary Health
- Climatic Change
- The Journal of Nutrition
- Maternal & Child Nutrition
- Food Science & Nutrition
- Nutrition Research Reviews
- Journal of the Academy of Nutrition and Dietetics
- BMC Public Health
- International Journal of Hygiene and Environmental Health
- The American Journal of Tropical Medicine and Hygiene
- Annals of Epidemiology

SKILLS

Statistical Software: STATA, R

Languages: English (native), Dutch/Flemish (advanced), Spanish (intermediate), German (beginner)