

BAHRE GEBRU KIROS

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Current Position

Postdoctoral Researcher	2023–
<i>Department of Government, Uppsala University</i>	
Affiliated Researcher	2023–
<i>Centre of Natural Hazards and Disaster Science (CNDS), Uppsala University</i>	

Research Interests

Primary: Environmental economics, climate economics, and development economics

Secondary: Health economics and Agricultural economics

Education

PhD in Economics	2018–2023
<i>Department of Economics, Swedish University of Agricultural Sciences (SLU), Sweden</i>	
<i>Dissertation:</i> Essays on the impact on households of natural resource scarcity and climate change	
<i>Supervisor:</i> Prof. Katarina Elofsson	
<i>Opponent:</i> Prof. Jesper Stage, Luleå University of Technology, Luleå, Sweden	
MSc in Economics	2009–2011
<i>Department of Economics, Addis Ababa University, Ethiopia</i>	
<i>Thesis:</i> Environmental resources collection versus children's schooling: evidence from Tigray, Northern Ethiopia	
BA in Economics	2003–2006
<i>Department of Economics, Jimma University, Ethiopia</i>	
<i>Thesis:</i> Determinants of foreign direct investment: evidence from Ethiopia	

Publications

1. **Gebru, B.** and Elofsson, K. (2026). Water scarcity, diarrhea, and health insurance uptake in Ethiopia: an instrumental variables approach. *Sustainable Water Resources Management*, 12(30). <https://doi.org/10.1007/s40899-026-01328-6>.
2. Elofsson, K., **Gebru, B.**, and Andersson, H. (2025). Impacts of climate change on agricultural yield and the economic feasibility of adaptation in Sweden. *Agricultural and Food Science*, 34: 169–183. <https://doi.org/10.23986/afsci.161088>.
3. **Gebru, B.**, Elofsson, K., Amuakwa-Mensah, F., and Marbuah, G. (2025). Climate variability and its impact on sanitation facility choice in Ethiopia. *Discover Water*, 5(43): 1–17. <https://doi.org/10.1007/s43832-025-00238-6>.
4. **Gebru, B.** and Elofsson, K. (2023). The role of forest status in households' fuel choice in Uganda. *Energy Policy*, 173, 113390. <https://doi.org/10.1016/j.enpol.2022.113390>.
5. Zerihun, Z., Hadush, G., Berhanu, T., **Gebru, B.**, Balcha, T., and Gebreslassie, Y. (2021). Reintegration of returning citizens in the absence of formal transition programs: experiences from Ethiopia. *Journal of Offender Rehabilitation*, 60(4): 256–269. <https://doi.org/10.1080/10509674.2021.1909199>.
6. Gebrehiwot, G. and **Gebru, B.** (2015). Ethiopia's foreign trade potential: inferences from a dynamic

- gravity approach. *International Journal of Economics and Business Research*, 9(4): 355-375. <https://doi.org/10.1504/IJEER.2015.069667>.
7. **Gebru, B.** and Bezu, S. (2014). Environmental resource collection: implications for children's schooling in Tigray, northern Ethiopia. *Environment and Development Economics*, 19(2): 182-200. <https://doi.org/10.1017/S1355770X13000454>.
 8. **Gebru, B.** (2014). Fertility response to parents' resource collection intensity: evidence from southeast Tigray, northern Ethiopia. *African Journal of Economic and Sustainable Development*, 3(2): 141-155. <https://dx.doi.org/10.1504/AJESD.2014.064378>.

Work in Progress

1. Nohrstedt, D., Parker, C., **Gebru, B.**, and Li, C. (2026). When do cities adapt to climate hazards? A global analysis of hazard experience and risk perception (under review)
2. **Gebru, B.** (2025). The effects of temperature on farm labor market outcomes in Ethiopia (manuscript)
3. Amuakwa-Mensah, F., Klege, R.A., and **Gebru, B.** (2025). Forest cover and health: evidence from Ethiopia and Uganda (manuscript)
4. Lindersson, S., Di Baldassarre, G., Parker, C., Bondesson, S., **Gebru, B.**, Goteman, M., *et al.* (2026). Unpacking and navigating complexity in disaster risk reduction (under review)
5. Tadesse, T., Berhe, M., Gezahegn, T.W., Kiros, H., Woldelibanos, D., Meresa, A.M., **Gebru, B.**, and Reda, G.K.(2025). Misreporting in natural resource use and armed conflict: evidence from a list field experiment (under review)
6. **Gebru, B.**, Tadesse, T., Kahsay, G.A., and Ginbo, T. (2025). Access to grid electricity and agricultural outcomes in rural Ethiopia (ongoing)
7. **Gebru, B.**, Ginbo, T., and Diouf, M. (2026). Weather shocks, electrification, and schooling: evidence from Ethiopia (ongoing)

Working Papers and Proceedings

1. **Gebru, B.**, Elofsson, K., Amuakwa-Mensah, F. and Marbuah, G. (2024). Climate variability and its impact on sanitation facility choice: evidence from Ethiopia. *Working Paper No. 382*, African Development Bank Group. <https://www.afdb.org/en/documents/working-paper-382-climate-variability-and-its-impact-sanitation>
2. **Gebru, B.** (2015). Fertility response to parents' resource collection intensity: evidence from southeast Tigray, northern Ethiopia. Proceeding of the 3rd Regional Conference of the Tigray Regional State Economic Development, Ethiopian Economic Association
3. **Gebru, B.** and Bezu, S. (2012). Environmental Resource Collection versus Children's Schooling: Evidence from Tigray, Northern Ethiopia. *Working Paper No. 007*, Ethiopian Development Research Institute (EDRI). <https://elibrary.acbfact.org/acbf/collect/acbf/index/assoc/HASH012a/07534f6b/d837900b/6245.dir/EDRI0003.pdf>.
4. **Gebru, B.**, *et al.* (2012). Developing Budget Allocation Formula for Districts of Tigray Region. Proceeding of the 2nd National Annual Conference on the Role of Aksum University in Supporting National Development Through Applied Research, Aksum University, Ethiopia

Work Experience

Doctoral Researcher , Department of Economics, SLU, Sweden	2018–2023
Assistant Professor , Department of Economics, Mekelle University, Ethiopia	2015–2018
Head , College Research and Community Services Office, Mekelle University, Ethiopia	2015–2018
Lecturer , Department of Economics, Mekelle University, Ethiopia	2014–2015
Lecturer , Department of Economics, Aksum University, Ethiopia	2011–2014

Short-term Employment , (field) research project supervision, Ethiopia	2012–2015
Practical Attachment and Community Service Officer , Aksum University, Ethiopia	2012–2014
Graduate Assistant-I , Department of Economics, Aksum University, Ethiopia	2008–2009
Planning Expert , Women's Association of Tigray, Ethiopia	2007–2008
Youth Affairs Expert , Youth Sports Affairs Office, Emba Alaje District, Ethiopia	2006–2007

Teaching and Thesis Supervision Experience

Department of Government, Uppsala University	2023–
Teaching: Introduction to Development Studies, Global Sustainable Development, Environmental Politics and its Challenges, Development and Political Institutions (undergraduate); Politics of Development (graduate)	
Co-coordinator, Introduction to Development Studies	2025–
Thesis supervision: Undergraduate level (1 student)	2023
Department of Economics, SLU	2020–2022
Teaching Assistant: Natural Resource and Environmental Economics, Econometrics and Programming (undergraduate)	
Department of Economics, Mekelle University	2014–2018
Teaching: Natural Resource and Environmental Economics, Microeconomics, Monetary Economics, Mathematical Economics, Calculus for Economists, Industrial Economics (undergraduate); Advanced Econometrics: Theory and Applications, Advanced Panel Data Econometrics, Quantitative Methods for Finance, Quantitative Marketing Research (graduate)	
Undergraduate Program Coordinator	2015
Thesis supervision: Undergraduate level (25 students); Graduate level (6 students)	
Department of Economics, Aksum University	2008–2014
Teaching: Natural Resource and Environmental Economics, Monetary Economics, Microeconomics, Macroeconomics, Linear Algebra for Economists, Calculus for Economists, Agricultural Economics (undergraduate)	
Team Leader, Environment- and Development-related Courses in Economics	2013
Thesis supervision: Undergraduate level (15 students)	

Pedagogic Education

Academic Teacher Training Course (5 weeks of working days), Uppsala University, Sweden	2026
Teaching in Higher Education, Basic Course (3 weeks), SLU, Sweden	2021
Instructional Skills Training (5 days), Mekelle University, Ethiopia	2015

Travel Grants and Research Funding

Multidisciplinary research proposal submitted, Swedish Research Council, SEK 5.6 million, Co-PI	2026
Travel grant, Nordic Conference on Development Economics, University of Gothenburg	2023
Travel grant for internationalization, SLU, SEK 19,000	2022
Conference travel grant, School of Global Studies, University of Gothenburg	2022
Mobility grant, SLU, SEK 10,000 (not used due to Covid-19)	2020
PhD student mentorship grant, SLU, SEK 5,000 (not used due to Covid-19)	2020
Multidisciplinary research funding, Mekelle University, USD 26,000, PI	2017
Multidisciplinary research funding, Mekelle University, USD 17,320, Co-PI	2017
Multidisciplinary research funding, Mekelle University, USD 11,000, Co-PI	2017

Research Visits and Schools (Winter and Summer)

Visiting Researcher, University of Gothenburg, Environment for Development (EfD), Sweden	2022
EAERE-ETH European Winter School on Spatial Environmental and Resource Economics, Switzerland	2020
Tool for Policy Analysis: Time Series Econometric Techniques, organized by the Ethiopian Economic Association / Ethiopian Economic Policy Research Institute and Adigrat University, Ethiopia	2014
Joint Facility for Electives, African Economic Research Consortium (AERC) CMPAP, Kenya	2010

Research Presentations

Conferences: CSAE (2023), SweDev (2022), ASWEDE (2022, 2021), NAERE (2022), EfD (2022, 2021, 2020), NCDE (2023, 2022), Ulvön (2022), EAERE (2022, 2021), Columbia University (2021), VICDSA (2020), Mekelle University (2017, 2016, 2015), EEA (2014), Adwa College of Teacher Education (2013), Aksum University (2012)
Seminars: Environmental Economics Research Group at SLU (2022, 2020, 2018), Development Seminar at Uppsala University (2024, 2023), Mekelle University (2017, 2016, 2015, 2014), Aksum University (2013, 2012, 2009)

Trainings Provided and Commissioned Consultancy Works

Trainings: Applied Econometrics with Stata applications (2018 and 2017, Mekelle University), Applied Econometrics with Stata applications (2014, Aksum University), Entrepreneurship (2014, Aksum Correction Centre)
Consultancy: Tigray Region Bureau of Construction, Urban Development, Trade and Industry; Tigray Region Bureau of Finance and Economic Development; Afar Region Bureau of Finance and Economic Development; Mekelle City Administration; Afro-Tsion Construction PLC; Aksum Town Administration

Skills

Languages: English (fluent), Swedish (intermediate), Tigrinya (native), Amharic (fluent)
Programming: STATA (excellent), L^AT_EX (excellent), ArcGIS (good), Python (beginner)

Professional Memberships

The Association of Swedish Development Economists (ASWEDE)
The European Association of Environmental and Resource Economists (EAERE)

Journal Referee

Economics of Disasters and Climate Change; European Review of Agricultural Economics; Environment, Development and Sustainability (ENVI)