

SUMMARY

Climate scientist and environmental economist with a multifaceted background in climate-related human mobility, econometrics, and expertise in data analysis and science communication.

Version: February 2021

EDUCATION

DPhil, Environmental Change Institute, Oxford**Apr 2021 (exp.)**

Dissertation: *Climate mobilities in East Africa: Methods towards attributing human mobility and extreme weather events in the era of climate change*

Supervisor: *Friederike E.L. Otto*

The extent to which human mobility can be attributed to extreme weather events on the local level, and to anthropogenic climate change on a global level, has been largely unexplored. This DPhil developed a novel method to quantify extreme weather and conflict signals in human mobility bringing together econometrics (social science) and probabilistic event attribution (climate science).

MS, Sustainability Management, Columbia University, New York City**2015**

Concentration: Environmental Science and Economics (GPA 3.5)

Advisors: *Steven Cohen, Thomas Abdallah*

Final Project: New Haven Farms: Pathways to Growth. Developed a growth-optimisation model for New Haven Farms (New Haven, CT).

BS, Business and Economics, Business & Information Technology School, Iserlohn**2013**

Double degree, top 5% of class (equivalent to Honours)

VISITING POSITIONS

Visiting Fellow, International Institute for Applied Systems Analysis (remotely) 2020

Visiting Researcher, IFRC/ Red Cross Climate Centre (remotely) 2020

Visiting Researcher, Universidad Latina de Costa Rica 2013

Visiting Student, Faculty of Economics and Business, CUNY 2010

SELECTED HONOURS

2021	Visiting Fellow, The Academic College of Tel Aviv-Yaffo (postponed to September 2021).
2020	Christ Church essay competition winner to attend the Leonardo da Vinci exhibition in the Louvre Palace, Paris.
2019	ECI Sustainability Internship Program recipient.
2019	Modeling the World's Systems, award for best presentation, University of Pittsburgh.
2018	Royal Geographical Society Ambassador.
2018	RGS Royal Society Mid-Term Conference Award.
2018	Galilee Institute, Study Award.
2017	Global Youth Climate Network Climate Ambassador, The World Bank.

FELLOWSHIPS & RESEARCH GRANTS

2020	IIASA Young Scientist Summer Programme Fellowship	€	1,350
2019	Max-Planck Institute for Biogeochemistry conference stipend	€	500
2019	Ford Foundation Research Grant	\$	2,000
2018	Royal Geographical Society-IBG conference bursary	£	60
2018	Pereira Fund for organising an outdoor movie event, Christ Church, Oxford	£	800
2018	Christ Church Language Study Grant	£	250
2018	Doctoral writing grant, Environmental Change Institute	£	350
2018-2021	Climate Econometrics Research Fellowship, Nuffield College, Oxford	£	9,000
2018-2021	Protestant Academic Foundation (German Federal Ministry of Education and Research) Doctoral Fellowship	€	82,200
2015	IMF Fund Internship Program Research Grant	\$	13,500

RELEVANT PROFESSIONAL EXPERIENCE

European Cooperation in Science and Technology 2019–present
Management Committee Substitute United Kingdom for the EU COST Action “Drylands Facing Change” (CA16233).

Climate Econometrics, Oxford Jun 2018–present
Doctoral Researcher, Nuffield College/ Institute for New Economic Thinking
 Application of econometrics to model the impacts of human mobility, conflict and extreme weather events.

The World Bank, Washington, D.C. 2016–2018
Environmental Economist
Mentor: Michael Toman
 Co-lead a diagnostic study (*Somalia Country Environmental Analysis*) on the trends and threats for the environment, and natural resources challenges. Performed data analysis on the economic implications of climate change for the *Somalia Systematic Country Diagnostic*. Climate change specialist on climate change impacts, agro-ecological re-zoning and supported the design of a Computable general equilibrium (CGE) model for Zimbabwe. Analytical support for the final report of the Zimbabwe *Climate Change Technical Assistance Programme*. Coordinated external consultants, identified finance opportunities and co-lead on grant proposals.

The Earth Institute, New York, N.Y. 2014–2016
Research & Teaching Assistant, Research Program on Sustainability Policy & Management

International Monetary Fund, Washington, D.C. 2015
Fund Internship Program

Volkswagen AG, Wolfsburg & Berlin, Germany 2012–2013
Undergraduate Researcher, Mobility Services/ Sustainability Initiative

TEACHING EXPERIENCE

Summer University Villigst *Unikat Erde*, September 2020, (postponed due to the COVID-19 pandemic)
 Tutorial Attribution Science, Mansfield College, February 2020 (cancelled due to the COVID-19 pandemic)
 Christ Church access workshop, February 2020
 The Oxford School of Climate Change, February 2020
 Drought Impacts, United Nations University, March 2019
 Christ Church seminar on *Controversies*, 01 March 2019
 UNIQ Summer School, University of Oxford, July 2018 and 2019,
 Teaching Assistant, Economics of Sustainability Management, Columbia University, 2015

UNIVERSITY LEADERSHIP AND COLLEGE SERVICE

Geography undergraduate admissions interviews	Christ Church, Oxford	Dec 2020
Senior Common Room Liaison Officer (GCR)	Christ Church, Oxford	May – Dec 2020
Global Youth Climate Network (GYCN) Ambassador	World Bank Youth Community	Dec 2017 – Present
Environment & Ethics Officer (GCR)	Christ Church, Oxford	Dec 2017 – May 2020
Co-organisier	Bikes for the World, Washington, D.C.	2016 – 2017

Independent Contributor	State of the Planet, Columbia University	2015 – 2016
Graduate Consultant	Columbia Impact Investing Initiative, Columbia University	2015
Graduate Consultant	The Earth Institute Capstone Project, Columbia University	2015
Co-organiser	Campus Symposium, Business and Information Technology School	2009 – 2011

Reviewer: Climate and Development; International Journal of Environmental Research and Public Health

PUBLICATIONS

h-index 2, citations 86 (Google Scholar, 04/01/21)

PUBLISHED IN PEER-REVIEWED JOURNALS

Heslin, A. and **Thalheimer, L.** (2020) The Picture from Above - Using Satellite Imagery to Overcome Methodological Challenges in Studying Environmental Displacement. *Oxford Monitor of Forced Migration*.

Stavi, I., Paschalidou, A., Kyriazopoulos, A.P., Halbac-Cotoara-Zamfir, R., Si Mokrane S., Suska-Malawska, M., Savic, D., Roque de Pinho, J., **Thalheimer, L.**, Williams, D.S., Hashimshony-Yaffe, N., M.d.S. Cordovil, C., Ficko, A. (accepted, Jun 2021). Multi-dimensional food security in drylands under climate change: A brief synopsis. Special Issue on Slow Onset Events in *Current Opinion in Environmental Sustainability*.

In review

Thalheimer, L., Otto, F.E.L., Abele, S.J., (under review). Scrutinizing evidence on links between human mobility and climate change in East Africa. *Global Environmental Change*.

Thalheimer, L., Williams, D.S., Van der Geest, K., Otto, F.E.L., (under review). The evidence base of near-term 1.5 °C global warming impacts on human mobility in African drylands. *Earth's Future*.

In preparation / revision

Thalheimer, L., Muttarak, R., Crespo Cuaresma, J., Otto, F.E.L., Mechler, R. (in preparation). Towards attributing climate-related displacement in Somalia to anthropogenic climate change.

Thalheimer, L., Webersik, C., Gaupp, F., (in revision). Systemic Risks Emerging From Compound Vulnerabilities. *Nature Food*.

Thalheimer, L., Pretis, F., Schwarz, M., Otto, (in preparation). The multifaceted relationship between extreme weather events, displacement and conflict: New insights from Somalia.

PAPERS IN EDITED VOLUMES

Thalheimer, L., and Webersik, C. (2020) 'Climate Change, Conflict and Migration', In Krieger, T., Panke, D. and Pregernig, M. (eds.) Environmental Conflicts, Migration and Governance, Bristol: Bristol University Press, pp. 59-82.

ESSAYS, REPORTS AND ISSUE BRIEFS

1. **Thalheimer L.**, Jjemba, E. and Simperingham, E. (2020) 'Forecast-based Financing and Disaster Displacement: Acting Early to Reduce the Humanitarian Impacts of Displacement' (with the Red Cross Climate Center, RCCC)

2. **Thalheimer, L.** (2020) 'How COVID-19 complicates the journey for climate migrants' IIASA Nexus. Available at <https://blog.iiasa.ac.at/2020/08/19/how-covid-19-complicates-the-journey-for-climate-migrants/>.
3. Wenham, A. and **Thalheimer, L.** (2020) 'On the move: What drives Somalia's migration?'. Available at <http://www.climateeconometrics.org/2020/06/30/on-the-move-what-drives-somalias-migration/>.
4. Parks, RM and **Thalheimer, L.** (2020) 'The hidden burden of pandemics, climate change and migration on mental health' IOM. Available at <https://environmentalmigration.iom.int/blogs/hidden-burden-pandemics-climate-change-and-migration-mental-health>.
5. De Fontaubert, C., Hart, T., **Thalheimer, L.**, Dubow, AZ, Million, JMF, Collier, JB (2020) 'Somalia Country Environmental Analysis: Diagnostic Study on Trends and Threats for Environmental and Natural Resources Challenges' The World Bank. Available at <https://openknowledge.worldbank.org/handle/10986/34058>.
6. **Thalheimer, L.** et al. (2019) 'Policy Brief: Food Security in Drylands Under a Changing Climate' EU COST Working Group I (The Climate, Food Security and Population Nexus). DOI: 10.13140/RG.2.2.12140.72324.
7. **Thalheimer L.** (2018) 'Extreme Weather Events And Population Movement In The Era Of Climate Change' Population Geography Research Group (PGRG). Available at: <https://popgeog.org/2018/06/21/extreme-weather-events-and-population-movement-in-the-era-of-climate-change/>. (invited article)

AUDIO

1. "Will climate migration lead to conflict?", Futuremakers podcast in January podcast discussion with Prof Peter Millican, 15 March 2020.
2. "COP 25 – what happened?", Futuremakers podcast discussion with Prof Peter Millican and Prof Friederike E.L. Otto, Prof Nathalie Seddon, Dr Helen Gavin, Alex Clark, entrepreneur Charmian Love and lawyer Bill Clark, 19 December 2019.

OTHER MEDIA

"What is Climate Migration?", Peril and Promise (Public Broadcasting Service), 17 July 2019.

PLENARY & KEYNOTE TALKS

"Forecast- based Financing and Disaster Displacement", Global Protection Forum 2020, online, 10 September 2020.

"Climate displacement, humanitarian needs and Forecast-based Financing", European Geosciences Union Press Conference, online, May 2020.

Conference of the Parties (COP25) Side Event - Climate Change, Displacement and Migration, Madrid, December 2019.

SELECTED INVITED TALKS

"On Conflict and Migration"

- Columbia University Knowledge Action Network on Emergent Risks and Extreme Events, online (April 2020)
- ETH Zurich 2020 EAERE-ETH European Winter School (January 2020)
- Herrenhausen Conference "Extreme Events – Building Climate Resilient Societies", Volkswagen Foundation & Max Planck Institute for Biogeochemistry, Hanover (October 2019).
- Nuffield Post-Doctoral Research Seminar, Oxford (June 2019)
- Columbia University Correlated Extremes Workshop (May 2019)

- “What is Climate Migration?”, panel discussion with Rumana Hashem and Asad Rehman on Exploring the links between climate change and migration, University of Oxford Climate Action Week, Oxford (09 February 2019)
- American Geophysical Union Fall Meeting, Washington (December 2018)
- Econometric Models of Climate Change Conference, University of Rome (September 2018)
- Oxford Symposium on Population, Migration and the Environment, Oxford (December 2017)

“Modelling framework for attributing human mobility and climate change”

- WU, Institute for Macroeconomics, Vienna (November 2020)
- Wittgenstein Centre Colloquium, online (June 2020)
- “The climate impacts of the economic and demographic slowdown”, with Prof Danny Dorling, The Oxford School of Climate Change, Brasenose College, Oxford (18 February 2020)
- MOMACS 2019, Washington, DC (May 2019)
- MURI Annual Evaluation, University of Florida (May 2019)
- 2018 Royal Geographic Society Mid-Term Conference, Royal Holloway, London
- After-Dinner Talk Senior Common Room of Christ Church (2018)

“Food security”

- Drought Impacts and Migration, United Nations University, online (March 2019).
- EU COST Action (CA16233) Workshop, Arad, Israel (February 2019).
- “Food and Climate Migration”, Oxford Food Thinkers Lunch Club, Linacre College (November 2017)

“Remote Sensing and Environmental Displacement”

- GIZ, German Development Agency, online (October 2020)
- 2019 American Geophysical Union Fall Meeting Abstracts (*presentation given by Alison Heslin*)

“Systemic Risk & COVID-19”

- Wittgenstein Centre Conference 2020, online, 01 December 2020
- IIASA research seminar, online, 25 July 2020

OUTREACH ACTIVITIES

STAND Student Festival “Climate Migration”, online, 20 October 2020

Oxford Museum of Natural History - Super Science Saturday, 23 November 2019

PROFESSIONAL AFFILIATIONS

American Geophysical Union
European Geosciences Union
Royal Geographical Society
The Royal Academy of Dance

LANGUAGES

Human: German & English (native/ bilingual); French & Spanish (advanced), Yiddish (basic)

Programming: Python, R, FME, (Q)GIS, OxMetrics

HOBBIES

Music (violin), ballet, bouldering, scrabble, and chess (beginner).