

Research Interests

Innovation and Technological Progress, *Technology Prediction; Combinatorial Innovation; Novelty Measurement.*

Industrial and Innovation Policy, *Innovation Policy Evaluation; Economic Complexity; Directed Technological Change.*

Structural Change and Labour Markets, *Labour Flow Networks; Automation Shocks.*

Current Position

06/2026 - ongoing **Postdoctoral Researcher**, *Potsdam Institute for Climate Change Research, Policy Evaluation Lab.*

Education

2021–Present **PhD in Economics**, *Chemnitz University of Technology, Department of Economics*,
(exp 2028) Supervisor: Prof. Torsten Heinrich.

2017–Present **DPhil (PhD) in Mathematics**, *University of Oxford, Mathematical Institute and Institute for New Economic Thinking*,
(exp 2027) Supervisors: Prof. Doyne Farmer, Prof. Neave O'Clery, Prof. Renaud Lambiotte,
Title: Link Prediction in Technology Networks.
(On medical leave 2019–2021)

2015–2017 **MPhil in Economics**, *University of Oxford and Mansfield College*,
Master's Thesis: 'The Scientific and Monetary Value of Patents and their Relationship: A Network Perspective', Grade – 69, Top 25% of the Cohort
Supervisors: Prof. Doyne Farmer and Prof. Peyton Young.
Specialization: Microeconomic Theory, Innovation Economics, Development Economics

2011–2015 **BSc in Economics and Business Administration**, *University of Tübingen*,
Final Grade – 1.28, Top 5% of the Cohort.
Specialization: Microeconomic Theory, Innovation Economics

2013 **Exchange Semester**, *University of Copenhagen.*

Publications and Advanced Work in Progress

Rochowicz, N., Kloesel, P., Menicacci, L., Romero-Fernandez, L., Stechemesser, A., Koch, N. (2026). Climate policy portfolio structures predict green innovation shifts, *OECD Working Paper, forthcoming*

Rochowicz, N. (2027). The Dynamics of Product Complexity,

Rochowicz, N., Heinrich, T., O'Clery, N., Farmer, D., (2027). Network Structure and Link Prediction in Technological Recombination, *INET Working Paper, forthcoming*

Rochowicz, N. (2024). Planning Progress: Incorporating Innovation and Structural Change into Models of Economic Planning, *Competition and Change*, [Link](#)

Le Lannou, A., Rochowicz, N., Kuhls, S., Gräbner-Radkowsch, C., Hafele, J., (2023). Securing Future-Fit Jobs in the Green Transformation: A Policy Framework for Industrial Policy, *ZOE Working Paper*, [Link](#)

Previous Positions

- Fall 2025 **Research Visit**, *Growth Lab, Harvard Kennedy School of Government*, Supervisors: Prof. Ricardo Hausmann and Prof. Muhammed Yildirim.
- 2021–2026 **Research Associate**, *Chemnitz University of Technology, Department of Economics, Chair of Microeconomics*.
- 2020–2021 **Research and Business Analyst**, *German Federal Agency for Disruptive Innovation SPRIND*.
Analysis of New Technologies for their Innovative and Business Potential, with a Special Focus on Technologies with Exceptionally High Societal Benefits
- 2017 **Research Assistant**, *University of Oxford, Oxford Martin School Programme on Technological and Economic Change*, Supervisor: Prof. Ian Goldin.
Research Assistance on the Determinants of Firm Productivity. Paper published in JEL, [Link](#)
- 2015 **Internship**, *Institute for New Economic Thinking*, New York.
Management and Strategic Vision of the Young Scholars Initiative
- 2014 **Internship**, *University of Oxford, Institute for New Economic Thinking at Oxford*, Supervisor: Prof. Doyne Farmer.
Project on Agent-Based Modeling and Model Calibration for Financial Stability

Selected Presentations and Invited Talks

- 2026 Geography of Innovation (GeoInno) Conference
- 2025 Center for International Development Seminar Harvard Kennedy School, Growth Lab Academic Seminar, Conference on Economic Complexity
- 2024 Conference on Economic Complexity, European Association for Evolutionary Political Economy, Bessemer Symposium on Economic Geography, Utrecht University Department of Innovation Studies Seminar
- 2023 Forum for Macroeconomics and Macroeconomic Policy, Association for Heterodox Economics, 4th Pluralism* Meeting, German Network for Economic Dynamics
- 2022 European Association for Evolutionary Political Economy
- 2021 Rethinking Innovation (IIPP UCL), Oxford Economics Society
- 2019 Conference on the Geography of Innovation and Complexity (Utrecht), European Association for Evolutionary Political Economy, Rethinking Innovation (IIPP UCL)
- 2018 Geography of Innovation (GeoInno) Conference, Conference on the Geography of Innovation and Complexity (MIT), World Economic History Congress, Trento Festival of Economics

Awards and Scholarships

- 2026 Attila Varga Early Career Award for the best paper by a young scholar presented at the Geography of Innovation conference
- 2022 Invited Participant at the Lindau Nobel Laureate Meeting
- 2016–2017 German National Merit Foundation, *For Outstanding Performance at University*
- 2015–2017 German Academic Exchange Service, *Scholarship for Promising Students to Pursue a Graduate Degree Abroad*

Teaching Experience

- 2022 - 2025 **Masters Seminar Supervisor**, *Chemnitz University of Technology*,
'Innovation and Technological Progress: Measurement, Prediction, Policy';
'The Robots are Coming: Evaluating the Economics of Generative AI';
'Predicting the Future: Forecasting in Innovation and Development Economics'.
- 2021–2026 **Teaching Assistant**, *Chemnitz University of Technology*.
'Innovation Economics', 'Introductory Microeconomics', 'Introduction to Economics'
- 2018–2019 **Teaching Assistant**, *University of Oxford, Mathematical Institute*.
'Mathematics and Data Science for Development'
- 2012–2015 **Teaching Assistant**, *University of Tübingen*.
'Mathematical Methods', 'Explorative Data Analysis', 'Risk & Probability', 'Microeconomics'

Thesis Supervision (selection)

Masters Thesis (Total: 7)

- SS 2026 Evaluating the Climate Impact of Train Delays - Causal Evidence from German Microdata
- WS 2025 Technological Novelty in Patents: Measurement, Geography, and Growth
- SS 2025 How Germany's Occupational Network Shapes Unemployment under Automation Shocks: A Data-Driven Modeling Approach using IAB Microdata
- SS 2024 Predicting Patenting Rates for Energy Storage Technologies via Networks-Based Metrics – CWG Thesis Prize awarded
- WS 2023 The Job Shopping Theory: An Empirical Analysis of Job Mobility after Apprenticeship Training in Eastern Germany – Marie-Pleissner Thesis Prize 2025 awarded

Bachelors Thesis (Total: 4)

- WS 2022 The Impact of AI on Labor Market Polarization: An Overview of Frameworks Examining Occupational Exposure – CWG Thesis Prize awarded

Organizing and Community Service

- 2021 **Conference 'Rethinking Innovation: The State, Markets, and Society in Times of Upheaval'**, *Co-Organizer*, Institute for Innovation and Public Purpose, UCL (hybrid).
[LINK](#)
- 2019 & 2020 **Conference on the Geography of Innovation and Complexity**, *Co-Organizer*, University of Utrecht (2019), online (2020).
[LINK](#)
- 2017 & 2018 **Oxford Summer School in Economic Networks**, *Co-Organizer*, University of Oxford.
[LINK](#)

- 2015–2019 **Rethinking Economics Oxford**, *Founder and Lead Organizer*.
Organization of Guest Lectures, Reading Groups, and Debates
- 2017–2020 **Complexity Economics Working Group**, *Coordinator*, Young Scholars Initiative.
Organization of Conferences and Events to Promote Advanced Mathematical Methods for Economics, Mentoring of Several Students
- 2014–2015 **European Coordinator**, *Young Scholars Initiative*, Institute for New Economic Thinking.
Coordination of Local Activities of YSI across European Universities, Supporting New Members and Groups, Providing Expertise on Conference Organisation
- 2014 **Conference 'New Economic Thinking for a Complex Evolving Financial System'**, *Co-Organizer*, De Nederlandsche Bank and Institute for New Economic Thinking.
10 Keynote Speakers, 20 Workshops, 150 Participants, 40'000€ Budget, 4 days
- 2014 **Conference of the 'International Student Initiative for Pluralism in Economics'**, *Lead Organizer*, University of Tübingen.
1 Keynote Speaker, 60 Participants, 30'000€ Budget, 5 days
- 2012 **2nd Rethinking Economics Conference**, *Co-Organizer*, University of Tübingen.
5 Keynote Speakers, 60 Participants, 5'000€ Budget, 3 days.
- 2012–2015 **Rethinking Economics Tübingen**, *Lead Organizer*.
Organization of Weekly Discussion Groups, Reading Groups, and Panel Discussions
- 2012–2015 **Tübingen Economics Forum**, *Lead Organizer*.
Organization of a Weekly Discussion Forum on Current Political and Economic Issues
- 2009–2013 **Initiative for a Local Youth Council**, *Founder & Lead Organizer*, Sindelfingen, Germany.
Lobbying the Local Council and Administration to Install a Youth Council to Enhance Youth Participation in Local Politics. The Council is Running Successfully in its sixth Election Period.

Impact and Outreach

- 2026 Expert Testimony delivered to the Parliament of the State of Berlin in the Hearing on 'Berlin as an International Centre for Deep-Tech Companies'

Programming skills

- Advanced R, Python, $\text{\LaTeX}$
Basic Java, MatLab, Stata

Languages

- Fluent German (native), English
Intermediate Spanish, French, Danish

Interests

- Reading
- Music
- Chess (Oxford University 2nd team)
- Windsurfing
- Soccer