Mitja Devetak

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EDUCATION

Complexity Science Hub (CSH) — Vienna
PhD in Complex Systems Science — 2024–ongoing
- Focus on large-scale agent-based simulations of maritime trade, critical raw materials, and electronic healthcare systems.
- Contributed to open-sourcing Agent-Based Modelling with <u>BeforeIT</u>.

University of Oxford — Oxford
MSc in Mathematical Modelling and Scientific Computing — 2022–2023
- Graduated with **Distinction**.
- Training in applied mathematics, networks, machine learning, and random matrix theory.

University of Groningen — Groningen
BSc Mathematics — 2019–2022
- Graduated *cum laude*.

University of Groningen — Groningen
BA Political Philosophy — 2020–2022
- Graduated *cum laude*.

EXPERIENCE

ASCII - Austrian Supply Chain Intelligence Institute — Vienna
Researcher — 2024–ongoing
- Lead author and contributor on multiple Policy Briefs picked up by national and international media, covering tariffs, the September 2024 floods, and international relations risk.
- Worked on economic risk and supply chain analyses, including dependence of the Austrian automotive industry on Volkswagen.

Freelance Developer (Climafin, Macrocosm, and others) — Remote
DevOps Engineer and ABM Developer — 2024–ongoing
- Worked with financial institutions on DevOps infrastructure, simulation backends, and differentiable ABMs in JAX and C++.

Complexity Science Hub (CSH) — Vienna
Research Collaborator — 2024–ongoing
- Developed large-scale agent-based models of maritime trade (TIDES, upcoming), critical raw materials, and electronic healthcare records.
- Contributed to simulation frameworks for the Austrian and European automotive supply chain.

Université Paris 1 Panthéon-Sorbonne — Paris
Research Assistant under Antoine Mandel — 2023–2024
- Developed and validated maximum entropy algorithms for global-scale supply chain reconstruction.

University of Groningen — Groningen
Teaching Assistant — 2020–2022

Skills

- **Programming Languages:** Julia, Python, MATLAB, C/C++, SQL, CUDA

- **Tools:** Git, LaTeX, Vim, Docker, AWS

Languages

- **Slovene:** native

- **Italian:** native

- **English:** fluent