

# JONAS SCHÄFER

Computational scientist driven by sustainable impact

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jonas-schaefer

jonas4climate



## EDUCATION

M.Sc. in Computational Science

University of Amsterdam & Vrije University

Sep 2023 – Jul 2025

Full-Time

- Grade (current): **7.96 GPA** (80%)
- Focus: scientific computing, complex systems, simulating natural processes, numerical algorithms
- Thesis topic: *“Thermal demand-side flexibility potentials and scalable utilization in multi-zone office buildings”*

B.Sc. (Hons) in Computer Science

University of Birmingham

Sep 2018 – Jun 2021

Full-Time

- Grade: **First Class** (73%)
- Thesis topic: *“Expanding Standardisation in Optical Music Recognition”*

## CONFERENCES

- Nov 2022: Nominated to represent German's youth at **UN COY17**, Egypt.
- Oct 2022: Speech on Democracy and Climate in the **European Parliament** at the *Level Up!* conference, Brussels. [Speech recording](#)
- Jun 2022: Representation at **UN SB56**, Bonn
- Nov 2021: Event coordination, **UN COP26**, Glasgow

## SUSTAINABILITY WORK

Sustainability Reporting Internship

proWIN Winter GmbH

Mar – Sep 2023

Part-Time

Head of Human Resources (Volunteer)

ClimateScience

Jun 2022 – Mar 2023

Full-Time

- Responsible for **500+ volunteers across 50 countries**
- Member of Executive Coordination
- Initiated recruiting pipelines, outreach team, training programmes, newsletters, assessment cycles

Web Developer & EU Partnerships (Volunteer)

ClimateScience

Dec 2019 – Jun 2022

Part-Time

## RESEARCH

Animal behavior in captivity

University of Birmingham & Royal Society

Jul 2020 – Sep 2020

Full-Time

- Supervised by Dr. Jackie Chappell, Senior Lecturer in Animal Behaviour & team leader of the Cognitive Adaptations Research Group.
- Monitoring system design for abnormal animal behavior in captivity via CCTV pose estimation.

## GROUP PROJECTS

Agent-based bee colony foraging behavior

Jun - Jul 2024

Simulating spatial foraging behavior of honey bees to analyze colony survival outcomes and emergent collective adaptation in response to weather effects and resource scarcity. Details [here](#)

Metabolic models and cell sorting

Apr - May 2024

Modelling bio-chemical metabolic pathways and analyzing cell sorting behavior of the Cellular Potts model. Details [here](#)

Particle simulation of coral growth

Feb - Mar 2024

Numerical solutions to PDEs (wave, diffusion, Laplace, reaction-diffusion) and modelling of fractal coral growth using DLA. Details [here](#)

Complexity in opinion formation

Jan - Feb 2024

Simulation of opinion formation processes according to social impact theory in social structures and analysis of critical temperature, self-organized criticality, unification processes. Details [here](#)

## LANGUAGES

1. German (native)
2. English (bilingual, C2)
3. French (advanced, B1+)