

Darius Muglich

Machine learning researcher · DPhil student, University of Oxford

dariusmuglich.com / [Google Scholar](#)

Education

University of Oxford 2023–present

DPhil · Autonomous Intelligent Machines and Systems (AIMS CDT)

Thesis on reinforcement learning generalization: policy-gradient implicit bias, symmetries, and human–AI coordination.

Current work on logic gate networks and neurosymbolic robot control.

University of Oxford 2020–2021

MSc · Advanced Computer Science

University of British Columbia 2015–2020

BSc · Combined Honours in Mathematics and Computer Science

Research and industry experience

UC Berkeley · Center for Human-Compatible AI Jun–Sep 2025

Visiting Researcher

Learned latent representations of human strategies from unlabeled demonstrations, enabling the construction of diverse AI partners for evaluating human–AI coordination.

Bazaarvoice Aug 2022–Sep 2026

Data Scientist V · Full-time initially; part-time during the doctorate

Primary engineer for a bandit-based campaign optimization method, delivering an estimated 40% lift in incremental revenue over an analyst-designed heuristic in a multi-month company A/B test.

Selected publications

Ad-Hoc Teamwork from Human Demonstrations NeurIPS 2026

Darius Muglich, Niklas Lauffer, Tin Dizdarevic, Jakob Foerster

Expected Return Symmetries ICLR 2025

Darius Muglich, Johannes Forkel, Elise van der Pol, Jakob Foerster

Equivariant Networks for Zero-Shot Coordination NeurIPS 2022

Darius Muglich, Christian Schroeder de Witt, Elise van der Pol, Shimon Whiteson, Jakob Foerster

Generalized Beliefs for Cooperative AI ICML 2022

Darius Muglich, Luisa Zintgraf, Christian Schroeder de Witt, Shimon Whiteson, Jakob Foerster

Selected awards

Toshiba Research and EPSRC CDT Studentship · Fully funded doctoral studentship

NSERC Undergraduate Student Research Award · Three awards

Trek Excellence Scholarship · Top 5% in year, faculty and school at UBC

Stanley M. Grant Scholarship · Two awards for excellence in mathematics