

Olek Osikowicz

📍 Sheffield, UK ✉ amosikowicz1@sheffield.ac.uk 🔗 olek-osikowicz.github.io 🌐 olek-osikowicz
🎓 Google Scholar

Education

- PhD** **University of Sheffield**, Computer Science Sheffield, UK
Sept 2023 – present
- Testing **Autonomous Driving Systems** (ADS) in simulated environments
 - Leveraging machine learning to optimize and accelerate ADS testing
 - Applying multi-fidelity optimization for ADS testing
 - Investigated flaky ADS tests caused by simulator nondeterminism
 - Supervisors: Donghwan Shin & Phil McMinn
- BSc** **University of Sheffield**, Computer Science Sheffield, UK
Sept 2020 – June 2023
- Graduated with First-Class Honours
 - Dissertation: *Autonomous Driving Systems Testing - grounded in reality test generation*

Publications

- Empirically Evaluating Flaky Tests for Autonomous Driving Systems in Simulated Environments** Apr 2025
- Olek Osikowicz**, Phil McMinn, Donghwan Shin
eprints.whiterose.ac.uk/222933 🔗 (2025 IEEE/ACM International Flaky Tests Workshop)

Teaching

- Software Re-Engineering** 🔗 Mar 2024 – present
- Supporting undergraduate and master's students in re-engineering real-world Python projects.
- Introduction to Algorithms and Data Structures** 🔗 Feb 2023 – June 2023
- Running tutorial sessions for first-year students, explaining the principles of modern algorithms and data structures.

Working Experience

- Dover Fueling Solutions**, Summer Intern Kraków, Poland
June 2022 – Sept 2022
- Creating and testing fault-tolerant data pipelines on Microsoft Azure.
 - Worked with SQL warehouses and data lakes on the Databricks cloud platform.

Skills

- Cloud Computing:** Creating pipelines for research computing using containerized applications, virtual machines, and data storage on AWS, Azure, and GCP
- Programming:** Proficient in Python, with a good understanding of networking and DevOps
- Mathematics:** Strong understanding of calculus, linear algebra, and statistics
- Languages:** Fluent in English, native in Polish, basic German

Side Projects

- GOA Maps** 🔗 May 2024
- A web application for generating city map posters.
- Built from scratch using custom map data processing API and Svelte front-end.
 - Self-hosted with Cloudflare Tunnel and Docker containers.