Olek Osikowicz

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 Google Scholar

Education

PhD   **University of Sheffield**, Computer Science   Sheffield, UK
                                                                                                          Sept 2023 – present
- Testing **Autonomous Driving Systems** (ADS) in simulated environments
- 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
- Disertation: *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 Svelte and OpenStreetMap data.
- Self-hosted with Cloudflare Tunnel and Docker containers.