

# Olek Osikowicz

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🎓 Google Scholar

## Education

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- 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
  - Dissertation: Autonomous Driving Systems Testing - grounded in reality test generation

## Publications

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

## Teaching

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- Software Re-Engineering** 🔗    Mar 2024 – present  
Supporting undergraduate and master students in their efforts to re-engineer 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

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- 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 Datalakes on Databricks Cloud platform

## Skills

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

## Side Projects

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- GOA Maps** 🔗    May 2024
- A web application for generating city map posters
- Coded from scratch using Svelte and OpenStreetMap data
  - Self-hosted using Cloudflare Tunnel and Docker containers