Adriaan Hilbers

Webpage: ahilbers.github.io ✉ a.hilbers@icloud.com in Adriaan Hilbers ○ ahilbers Google Scholar
Languages: python (pandas, sklearn, tensorflow), git, bash, sql. *Basic*: r, c++, javascript, html, css

Education

Imperial College London

2018 - 2023 oct mar est.	**PhD Statistics** (application: renewable energy system optimisation) • Fully funded by EPSRC Centre for Doctoral Training in Mathematics for Planet Earth. • Topic: renewable energy optimisation, e.g. *where should we build wind farms?* or *should we build a wind farm, solar plant, battery, gas plant or additional transmission?* • 3 first-author papers published, 1 in review (see Google Scholar).
2017 - 2018	**MRes Mathematics** (distinction)

University of Oxford

2015 - 2016	**MSc Mathematical and Theoretical Physics**
2012 - 2015	**BSc Mathematics** (first class / cum laude)

Work Experience

2022 sep - dec	**Google: Data Science Intern** (worked with python, SQL) • Designed machine learning models to measure search advertisement effectiveness. • If fully implemented, models generate $>5m in additional revenue.
2021 sep - dec	**Boston Consulting Group: Visiting Data Scientist** (worked with python, SQL) • Part of 6-person team evaluating pricing strategies for automobile producer. • Responsible for end-to-end implementation: agreed on goals with client, ingested and examined input data, wrote and integrated code + tests, conducted code review, provided documentation and presented results.
2021 mar - aug	**Amazon: Applied Science Intern, Machine Learning** (worked with python, SQL) • Created machine learning model used in Amazon's core supply chain simulation. • Liaised with supply chain simulation and software engineering teams throughout project to stay aligned on model's input-output variables, API and latency requirements. • Wrote report and presented methods & results to business stakeholders in Seattle.
2019 - 2020 sep aug	**Coursera: Instructor, Getting Started with Tensorflow 2** (worked with python) • Course taken by >28,000 learners, average rating 4.9/5 (as of October 2022). • Created video lectures, programming notebooks and self-grading assignments covering fundamentals of (probabilistic) machine learning, deep learning and Tensorflow.

Leadership & Awards

2020	**Runner-up, best student paper**, IEEE Conf. on Probabilistic Methods for Power Systems
2019 dec	**Alan Turing Institute: Data Study Group Project Facilitator** (worked with python) • Lead 7 data scientists in week-long challenge to create AI/ML methodologies for the automatic evaluation of planning applications for London borough.
2019 - 2020 sep jul	**London Journal of Energy: Director of Content Creation** • Oversaw two publication cycles with 1500 physical copies and online release. • Winner of 2019 Bright Network *Society of the Year* Environment Award.

Coding Projects (see Github)

• Energy system models with high-level API for renewable energy and time series analysis (python).
• Website to calculate outcomes of large battles in *Risk* board game (javascript, html, css).
• Command line implementation of *Snake* video game (c++).
• Contributor to *Calliope*, open-source energy modelling software (python).

Other

• *Writing*: maintain general audience blog about renewable energy (see personal webpage).
• *Presentations:* selected for final (top 15) in public speaking competition at Imperial College.
• *Languages:* English (native), Dutch (native), Spanish (CEF level B2), German (CEF Level A2).
• *Certificates*: Google Coursera course on computer networking (IP, TCP/UDP, 5-layer model).
• *Football*: played for University of Oxford's first team ("*Blues*"), currently play for London team.