



Adriaan Hilbers

Webpage: ahilbers.github.io ✉ a.hilbers@icloud.com  [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 jan 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.
 - Identified customers with potential for revenue increase via transfer learning techniques.
 - Impact: tens of millions (USD) increase in annual revenue without increase in error.
- 2021
sep - dec **Boston Consulting Group: Visiting Data Scientist** (worked with python, SQL)
- Part of 6-person team evaluating pricing strategies for automobile producer.
 - End-to-end implementation: agreed on goals with client, ingested data, wrote code and 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 >29,000 learners, average rating 4.9/5 (as of December 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.