

Justin Starreveld

Nationalities: Netherlands, United States and Australia

Languages: Dutch and English

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Summary

I am passionate about using data to inform and improve decision-making. Besides programming, I enjoy teaching, presenting, and working in collaboration with others.

Work Experience

AI & Data Science Consultant, EyeOn Dec 2025 – Present

Executed projects related to forecasting and agentic AI, as well as inventory and supply chain optimization, for a variety of companies across different industries.

Primary tools: Databricks, Python, SQL, Apache Spark, Power BI, PowerPoint

PhD Candidate, University of Amsterdam & TU Delft 2021 – 2025

My work as an academic researcher involved reading and writing scientific articles, as well as collecting data, developing algorithms, running computational experiments and presenting the results at international conferences.

Primary tools: Python, Julia, Git, Gurobi, LaTeX

Internship & Junior Analyst, Quo Mare 2020 – 2021

Reviewed and developed methods to account for short-term fluctuations in long-term planning problems. Contributed to consultancy projects on supply chain and energy system optimization.

Primary tools: AIMMS, Python, Git, SQL, PowerPoint

Teaching Assistant 2017 – 2025

Have assisted with teaching the following courses at Erasmus University Rotterdam, University of Amsterdam, TU Delft and the Dutch Network on the Mathematics of Operations Research:

- Optimization and Machine Learning (2025)
- Introduction to Programming in Python (2024)
- Engineering Optimization and Integrating Renewables in Electricity Markets (2023)
- Business Operations and Processes (2022, 2023)
- Analytics for a Better World (2021, 2022, 2023, 2024)
- Markov Processes (2019)
- Introduction to Programming in Java (2018)
- Linear Programming (2017, 2018, 2019)

Education

PhD in Operations Research, University of Amsterdam 2021 – 2025

Thesis: “Mathematical Optimization Under Uncertainty With Applications to Hydrogen Deployment in the Netherlands”

Supervisors: Prof. Dick den Hertog and Prof. Zofia Lukszo

MSc Econometrics and Management Science, Erasmus University Rotterdam 2019 – 2021

Specialization: Analytics and Operations Research in Logistics

Thesis: “Accounting for Short-Term Fluctuations in a Long-Term Energy System Optimization Model: An Inquiry Into the Prospective Role of Hydrogen in the Electricity Supply Chain”

GPA: 8.7/10 (cum laude)

BSc Econometrics and Operations Research, Erasmus University Rotterdam 2015 – 2019

Thesis: “Implementation and Extension of an Adaptive Large Neighborhood Search Heuristic for Vehicle Routing Problem Variants”

Major: Quantitative Logistics

Additional: Participated in excellence program on “Artificial Intelligence & Econometrics”

GPA: 8.3/10 (cum laude)

BSc Economics and Business Economics, Erasmus University Rotterdam 2015 – 2019

Major: Policy Economics

GPA: 8.2/10 (cum laude)

Publications

📄 **Robustness Analysis for Adaptive Optimization With Application to Industrial Decarbonization in the Netherlands**

with G. Brandt, J. Davelaar, D. den Hertog, Z. Lukszo and N. Thijssen

Published in *Omega*

Paper

Code

Poster

📄 **ROBIST: Robust Optimization by Iterative Scenario Sampling and Statistical Testing**

with G. Jin, D. den Hertog and R. Laeven

Published in *Computers & Operations Research*

Paper

Code

📄 **Assessing Green Hydrogen Production via Offshore Wind in the Dutch North Sea: Complementing Techno-Economic Simulation With Machine Learning and Optimization**

with L. Frowijn, R. Travaglini, R. van 't Veer, A. Bianchini, K. Bruininx, D. den Hertog and Z. Lukszo

Published in *International Journal of Hydrogen Energy*

Paper

Code

📄 **Generating a Diverse Set of Near-Optimal Solutions: Why and How**

with D. den Hertog, J. Pauphilet and B. Song

Under review at *Manufacturing & Service Operations Management*

Additional Information

- Have experience with programming in Python, Java, Julia, R, Matlab and AIMMS.
- For 3 months in 2021, I taught mathematics classes at Isolomzi Senior Secondary School in Transkei, South Africa. This is a rural and underdeveloped area, where resources are limited and schools lack qualified teachers. Also provided 1-on-1 tutoring and organized extra-curricular activities (chess club, girls self-defence classes and scouting) at the Nolali Education Centre after school.
- Academic exchange at the University of Montevideo in Uruguay in 2018. During this 6-month period I lived and studied in Montevideo. It was a great opportunity to improve my Spanish, as I went from hardly knowing anything to being able to effectively communicate (A1 to B2).
- Participated in the Netherlands-Asia Honours Summer School (NAHSS) in 2017. This is a highly selective program that allows Dutch University students to spend a month of their summer at a university in China.
- In secondary school participated in the following exchanges/educational cultural trips to other countries:
 - Shanghai (China): Two-week exchange with a Chinese student.
 - Bath (UK): Lived with a host family for a week.

- Bath Kreuznach (Germany): One-week exchange with a German student.
 - Dublin (Ireland): Lived with a host family and participated in the Saint Patrick’s Day parade.
 - Paramaribo (Surinam): Volunteer work, built a library for a primary school.
- Have worked as a private tutor for high-school and university students for many years. The subjects I would primarily tutor in were: Mathematics, Physics, Chemistry and Economics.
 - Have played basketball at the highest level in the Netherlands for the youth teams at Rotterdam Basketball, where we won the national championship in 2009.
 - Have completed 3 marathons (Rotterdam, Utrecht and Dubai), and have done the “Nijmeegse 4Daagse” twice.