

Frans de Ruiter

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Over nine years of experience in creating business value through analytics projects. I am resilient in stressful situations and eager to work with teams with complementary expertise.

Employment History

- 2024 – Now 📌 **Senior Manager Strategic Capacity Preparation** ASML, Veldhoven.
- Part of the team responsible for evaluating strategic capacity levels for the long term horizon at ASML and main partners / suppliers.
- 2017 – 2024 📌 **Senior Analytics Consultant** CQM, Eindhoven.
- Project lead for analytic projects on supply chains and optimization (a.o. ASML).
 - Developer and trainer of data science courses for professional education.
- 2021 – Now 📌 **Senior Researcher** (0.2 FTE) Wageningen University, Operations Research and Logistics.
- Leading a university-industry consortium project on new techniques for stress testing supply chains. Funding acquired from Dinalog (500k).
 - Initiator of the Food Supply Chain Platform for university-industry collaboration.

Education

- 2014 – 2018 📌 **Ph.D., Tilburg University** Operations Research (cum laude).
Thesis title: *Primal and dual approaches to adjustable robust optimization.*
- 2017 – 2017 📌 **Visiting Researcher, The Technion.**
Haifa Israel, Department of Industrial Engineering, hosted by Prof. Aharon Ben-Tal.
- 2015 – 2016 📌 **Visiting Researcher, Massachusetts Institute of Technology (MIT).**
Cambridge US, Operations Research Center, twice hosted by Prof. Dimitris Bertsimas.
- 2013 – 2014 📌 **M.Sc. , London School of Economics** in Applicable Mathematics (cum laude).
- 2012 – 2013 📌 **M.Sc. , Tilburg University** in Management Science & Operations Research (cum laude).

Miscellaneous

Ancillary activities






- 2022 – Now 📌 **Board member.** Dutch Operations Research Society (Nederlands Genootschap van Besliskunde).
A.o. organizing annual conference in Soesterberg for experts in industry and academia.

Media



- 2021 📌 **Record breaking mathematics problem solved, 20.000 kilometer fietsen en je hebt ieder monument gezien**, NRC, page 3, September 10, 2021.

Miscellaneous (continued)

Selected Awards

- 2024  **Finalist 2024 Franz Edelman Award** “Optimizing mobility for elderly and disabled Dutch citizens using taxis.”
- 2022  **Finalist EURO Common Good Prize**, presented the CQM/Transvision/Geodan project.
- 2018  **Van Zwet Award**, Honorable mention for my PhD thesis received during the annual meeting of the Dutch Society for Statistics and Operations Research.
- 2014  **MSc thesis**, Haya Freedman prize for best thesis at the mathematics department of the London School of Economics.
-  **MSc thesis**, VVSOR prize for best Statistics and Operations Research thesis written in the Netherlands.

Skills

- Languages  Fluent in Dutch and English.
- Programming  Python, Julia (mathematical programming)

Academic publications

- 1 F. J. C. T. de Ruiter, J. M. van Rooij, P. Hulsens, *et al.*, “Optimizing mobility for elderly and disabled dutch citizens using taxis,” *To appear in INFORMS Journal on Applied Analytics*, 2024.
- 2 F. J. C. T. de Ruiter, J. Zhen, and D. den Hertog, “Dual approach for two-stage robust nonlinear optimization. operations research,” *To appear in Operations Research*, 2022.
- 3 J. Zhen, F. J. C. T. de Ruiter, E. Roos, and D. den Hertog, “Robust optimization for models with uncertain soc and sdp constraints,” *INFORMS Journal on Computing*, vol. 34, no. 1, pp. 196–210, 2021.
- 4 F. J. C. T. de Ruiter, A. Ben-Tal, R. C. M. Brekelmans, and D. den Hertog, “Robust optimization of uncertain multistage inventory systems with inexact data in decision rules,” *Computational Management Science*, vol. 14, no. 1, pp. 45–66, 2017.
- 5 D. Bertsimas and F. de Ruiter, “Duality in two-stage adaptive linear optimization: Faster computation and stronger bounds,” *INFORMS Journal on Computing*, vol. 28, no. 3, pp. 500–511, 2016, **2017 INFORMS Optimization Society Student Prize**.
- 6 F. J. C. T. de Ruiter, R. C. M. Brekelmans, and D. den Hertog, “The impact of the existence of multiple adjustable robust solutions,” *Mathematical Programming*, vol. 160, no. 1, pp. 531–545, 2016, **APMOD Best Student Paper Prize**.
- 7 F. J. C. T. de Ruiter and N. L. Biggs, “Applications of integer programming methods to cages,” *The Electronic Journal of Combinatorics*, vol. 22, no. 4, P4.35, 2015.