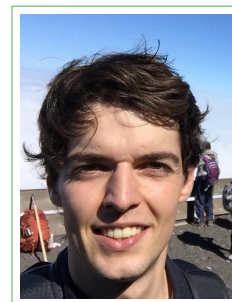


Frans de Ruiter

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Summary

I am always looking for fast changing environments to work with different people. I am enthusiastic to share knowledge, learn and stimulate one another to achieve the best together. I have spent one year at MIT and independently looked for different collaborators resulting in a number of publications in top journals. Prior to my PhD I have completed a masters degree in applied mathematics at the London School of Economics.

Experience

'14-'16

Research project: Robust capacity planning, ASML, Veldhoven (NL).

I was responsible for a project at ASML where I worked with Kuno Huisman and Paul Enders to optimize capacity investment decision making at suppliers. We developed a software tool that provides insight to decision makers into the impact of investment decisions while planning for the next generation of lithography machines.

Education

'17

Visiting Researcher, Technion University, Haifa (Israel).

During winter of 2017 I have visited the Technion university and collaborated with Aharon Ben-Tal.

'15-'16

Visiting Researcher, MIT, Operations Research Center, Cambridge (MA, USA).

During spring and summer of both 2015 and 2016 (twice) I have visited the Operations Research Center at MIT and collaborated with Dimitris Bertsimas.

'14-

PhD (graduation 2017), Tilburg University, Operations Research, Tilburg.

NWO Research Talent grant. Advised by Dick den Hertog.

'13-'14

MSc, London School of Economics, Applicable Mathematics, London (UK).

Highest distinction, Winner of Haya Freedman Prize for best MSc thesis written in the mathematics department.

'09-'13

BSc, MSc, Tilburg University, Tilburg, Operations Research & Management Science.

Highest distinction, Winner of VVS+OR thesis prize for best MSc thesis written in the Netherlands in statistics and operations research. Recipient of a Topscholar grant issued by the province of North Brabant. Selected for the Honours program (top grade from class 9.5/10).

Publications

- [1] Dimitris Bertsimas and Frans de Ruiter. Duality in two-stage adaptive linear optimization: Faster computation and stronger bounds. *INFORMS Journal on Computing*, 28(3):500–511, 2016.
- [2] Frans de Ruiter, Aharon Ben-Tal, Ruud Brekelmans, and Dick den Hertog. Robust

optimization of uncertain multistage inventory systems with inexact data in decision rules. *Computational Management Science*, pages 1–22, 2016. advance online publication.

- [3] Frans de Ruiter and Norman Biggs. Applications of integer programming methods to cages. *The Electronic Journal of Combinatorics*, 22(4):P4.35, 2015.
- [4] Frans de Ruiter, Ruud Brekelmans, and Dick den Hertog. The impact of the existence of multiple adjustable robust solutions. *Mathematical Programming*, 160(1):531–545, 2016.

Invited talks

'14- **Conference presentations.**

CMS (Bergamo, IT), SIAM (Vancouver, CA), NMC (Utrecht, NL), INFORMS (Nashville, TN, USA), ICCOPT (Tokyo, Japan), Optimization Days Conference (Montreal, Canada), Research Seminar Erasmus University (Rotterdam, NL), LNMB conference (Lunteren, NL 2x), ISMP (Pittsburgh, PA, USA), APMOD (Warwick, UK), Netherlands Society for Statistics and Operations Research VVS+OR (Utrecht, NL).

'14- **Seminars.**

AP lunch seminar IBM (New York, NY, USA), Research Seminar Erasmus University (Rotterdam, NL), Tilburg University Operations Research seminar (Tilburg, NL 2x), Management Science Seminar London School of Economics (London, UK).

Teaching and Academic activities

'17 **Optimization case studies for JADS experts program, JADS, Den Bosch.**

I was responsible for the development and presentation of the case studies to experts from industry, as well as assistance during the day itself. Course evaluation: 4.7/5.

'16 **Analytics for Business and Governance, Tilburg University, Tilburg.**

Responsible for the tutorials of this graduate course where we taught the skills required for data analysis for businesses and simple optimization models. Course evaluation: 4.8/5.

'15-'16 **Linear optimization, Tilburg University, Tilburg.**

Provided tutorials for first year econometrics students teaching the theory theory and practical skills required to build and solve linear optimization models. Course evaluation: 4.4/5.

'16 **MSc supervision, Tilburg University, Tilburg.**

Co-supervised a MSc thesis on robustness in vehicle routing with time windows written at consultancy company ORTEC.

'14-'15 **Statistics for pre-master, Tilburg University, Tilburg.**

Responsible for tutorials, involving large groups of students (>50 students), equipping them with basic statistics skills. Course evaluation: 4.4/5.

'15- **Peer reviewer scientific journals, Operations Research, Mathematical Programming, Operations Research Letters, Omega, European Journal of Operations Research (3x).**

Others and Interests

- Languages Dutch: Mother tongue, English: Fluent (8/9 IELTS in 2012), French/German: Basic.
- Computer Languages: Matlab, Julia (early adopter of JuMP Optimization), AIMMS, Yalmip, skills Java, C++ (basic), Operating systems: Windows, OS X, Linux.
- Interests I have participated in a number of speed skating competitions throughout the Netherlands. I was president of the Tilburg student speed skating society from 2011 to 2013. I have rowed during my stay at MIT and raced in national and international races with the graduate team. During holidays I love to go sailing and cycling.