

## Personal Information

Name: Joris Camiel Wagenaar  
Date of Birth: 11-02-1989  
Nationality: Dutch  
Phone: +31651003202  
Email: j.c.wagenaar\_1@uvt.nl

## Scientific Education

2012-2016 **PhD Student in Business Processes, Logistics & Information Systems**  
*Erasmus Research Institute of Management (ERIM), Rotterdam*

2010-2011 **Master of Science in Econometrics and Management Science**  
MAJOR: OPERATIONS RESEARCH AND QUANTITATIVE LOGISTICS  
*Erasmus School of Economics, Erasmus University Rotterdam*

2006-2010 **Bachelor of Science in Econometrics and Management Science**  
*Erasmus School of Economics, Erasmus University Rotterdam*

## Relevant Working Experience

November 2017 - now **Assistant Professor, Tilburg University**  
*Two research topics: transportation and zero hunger*

September 2016 - 2017 **Postdoctoral researcher, Erasmus University Rotterdam**  
*Research in multimodal transportation for the ERA-NET project*

March 2016 - September 2016 **Postdoctoral researcher, Delft University of Technology**  
*Research in microscopic disruption management for Railway systems*

2012-2016 **PhD candidate at Rotterdam School of Management, Erasmus University Rotterdam**  
*Researching new models and techniques to handle disruption management in Railway systems*

Februari 2015 - May 2016 **Research visitor at the Technical University of Denmark**  
*Research to the Depot Problem arising during Rolling Stock (Re)Scheduling in Railway systems*

- 2011            **Intern at Erasmus MC**  
*Internship for Master thesis on inventory control*
- 2007-2010     **Teaching assistant at Erasmus School of Economics,  
Erasmus University Rotterdam**  
*Teaching assistant for the courses: Introduction to Statistics,  
Methods & Techniques, Mathematics 2, Applied Statistics 1*
- 2009            **Working student at TNT post, Den Haag**  
*Research in forecasting amount of daily post*
- 2008-2009     **Student Research Assistant at Erasmus School of Economics,  
Erasmus University Rotterdam**  
*Research in statistics*

### Extra Curricular

- 2013-2016     **Member of the TRAIL Research School PhD Council**
- 2012-2015     **Member of the supervisory board of the Econometric Student Association**
- 2008-2009     **Member of the board of the Econometric Student Association**  
*Secretary*

### Scientific Output

#### Published:

V. Cacchiani, D. Huisman, M. Kidd, L. Kroon, P. Toth, L. Veelenturf, **J. Wagenaar**,  
“An Overview of Recovery Models for Real-Time Railway Rescheduling”,  
*Transportation Research Part B: Methodological* 63 (2014), pp 15-37

L. Kroon, L. Peeters, **J. Wagenaar**, R. Zuidwijk,  
“Flexible Connections in PESP Models for Cyclic Passenger Railway Timetabling”,  
*Transportation Science*, 48 (1) (2013), pp 136 – 154

S. Zhan, L. Kroon, L. Veelenturf, **J. Wagenaar**  
“Real-Time High-Speed Train Rescheduling in Case of a Complete Blockage”,  
*Transportation Research Part B: Methodological* 78 (2015), pp 182-201

**J. Wagenaar**, L. Kroon, M. Schmidt  
“Maintenance in Railway Rolling Stock Rescheduling for Passenger Railways”,  
*Transportation Science* 51(4), pp 1138-1160

J. Haahr, **J. Wagenaar**, L. Veelenturf, L.G. Kroon  
“A comparison of two exact methods for passenger railway rolling stock (re)scheduling  
*Transportation Research Part E: Logistics and Transportation Review* 91, pp 15-32

T. Dollevoet, D. Huisman, L. Kroon, L. Veelenturf, **J. Wagenaar**  
“Application of an Iterative Framework for Real-Time Railway Rescheduling”  
*Computers & Operations Research* 78, pp 203-217

**J. Wagenaar**, L. Kroon, I. Fragkos  
“Rolling Stock Rescheduling in Passenger Railway Transportation Using  
Dead-Heading Trips and Adjusted Passenger Demand”,  
*Transportation Research Part B: Methodological* 101, pp 140-161

J.T. Haarh, R.M. Lusby, **J. Wagenaar**  
“Optimization Methods for the Train Unit Shunting Problem”  
*European Journal of Operational Research* 262 (3), 981-995

**J. Wagenaar**, I. Fragkos, R. Zuidwijk  
“Integrated planning for multimodal networks with disruptions and customer service requirements”,  
*Transportation Science* 55.1 (2021), pp 196-221

M. Koenen, M. Balvert, R. Brekelmans, H. Fleuren, V. Stienen, **J. Wagenaar**  
“Forecasting the spread of SARS-CoV-2 is inherently ambiguous given the current state of virus research”,  
*Plos one* 16:3 (2021):e0245519

P. Liu, M. Schmidt, Q. Kong, **J. Wagenaar**, L. Yang, H. Zhou  
“A robust and energy-efficient train timetable for the subway system”  
*Transportation Research Part C: Emerging Technologies* 121 (2020): 102822

V. Stienen, **J. Wagenaar**, D. den Hertog, H. Fleuren  
“Optimal depot locations for humanitarian logistics service providers using robust optimization”  
*Omega: The International Journal of Management Science* 104 (2021)

**Working papers:**

**J. Wagenaar**, E. van der Hurk, R. Lusby, M. Schmidt  
“Robust Rolling Stock Rescheduling”  
Submitted at Omega: The International Journal of Management Science

F. Paanakker, **J. Wagenaar**, G. Kant  
“Automatic Vehicle Routing Problem Taxonomy”

**J. Wagenaar**, I. Fragkos, M. Faro  
“Strategic Planning in Multimodal Transportation Networks”

R. Poos, D. den Hertog, D. de Moor, **J. Wagenaar**  
“Robust Optimization in Food Assistance Supply Chains”

V. Stienen, **J. Wagenaar**, D. den Hertog, J. de Zegher, H. Fleuren  
“Create and enrich digital road networks for optimization in remote areas using OpenStreetMap and GPS traces”

## Teaching Experience

### **Inventory and Production Management**

Teacher for 1 years

**Third year students Econometrics**  
*Tasks include:* Setting up the Inventory part of the course, lecturing two times 2 hours a week, evaluating the students via exams and assignment

### **Linear Algebra for Data Science**

Teacher for 4 years

### **Second year students Data Science**

*Tasks include:* Setting up the course, lecturing two times 4 hours a week, evaluating the students via exams

### **Combinatorial Optimization for Data Science**

Teacher for 2 years

### **Third year students Data Science**

*Tasks include:* Setting up the course, lecturing two times 4 hours a week, evaluating the students via exams

### **Supply Chain Management**

Teacher for 3 years

### **Master students Economics**

*Tasks include:* Setting up the course, lecturing exercise lectures two times 2 hours a week, evaluating the students via exams

### **Mathematics**

Coordinator for 1 year

Teaching assistant for 2 years

### **First year students Business Administration**

*Tasks include:* Coordinating all student assistants, lecturing exercise lectures to groups of 40 students, running the back office of both dutch and the international Mathematics course.

### **Introduction to Statistics**

Teaching assistant for 2 years

### **First year students Econometrics**

*Tasks include:* Giving the computer exercise lectures to groups of 80 students.

### **Methods & Techniques**

Teaching assistant for 2 years

### **Third year students Economics**

*Tasks include:* Giving the computer exercise lectures to groups of 80 students.

### **Introduction to Econometrics**

Teaching assistant for 2 years

### **Master students Economics**

*Tasks include:* Giving the computer exercise lectures to groups of 80 students.

### **Mathematics 1 & 2**

Teaching assistant for 2 years

### **First year bachelor students in Economics**

*Tasks include:* Leading workshops with 40 students.

### **Applied Statistics 1**

Teaching assistant for 2 years

### **First year bachelor students in Econometrics**

*Tasks include:* Leading workshops with 40 students.

## Conference Presentations

2021: **INFORMS**, Online  
2021: **Annual Conference on Health & Humanitarian Logistics**, Online  
2019: **INFORMS**, Washington, USA  
2019: **EURO**, Dublin, Ireland  
2018: **EURO**, Valencia, Spain  
2016: **INFORMS**, Nashville, USA  
2015: **INFORMS**, Philadelphia, USA  
2015: **CASPT**, Rotterdam, The Netherlands  
2015: **RailTokyo**, Tokyo, Japan  
2014: **INFORMS**, San Francisco, USA  
2014: **IFORS**, Barcelona, Spain  
2013: **TRAIL congres**, Delft, The Netherlands  
2013: **OR2013**, Rotterdam, The Netherlands  
2013: **TRISTAN VIII**, San Pedro de Atacama, Chile  
2013: **RailCopenhagen**, Copenhagen, Denmark

## Awards

2013: **TRAIL congres best paper award** first place  
2014: **RAS student paper award** third place  
2014: **RAS problem solving competition** finalist  
2015: **RAS student paper award** second place  
2016: **RAS student paper award** first place