

VEERLE TAN-TIMMERMANS

PhD Student

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EXPERIENCE

PhD Student

Maastricht University

📅 July 2014 – Ongoing 📍 Maastricht

- Research: Nash equilibria in atomic splittable congestion games.
- Teaching undergraduate students

Math Teacher and Tutor

Several instances

📅 January 2009 – 2012 📍 Nijmegen

- High school math teacher (Maaswaal College Wijchen)
- Math teacher for exam preparation (SSL Leiden)
- Student author for online study environment Got-it (Thieme Meulenhoff)
- Tutor for bachelor courses 'Graph Theory' and 'Math, Politics and Economics' (Radboud University)

RESEARCH PROJECTS

Nash Equilibria in Atomic Splittable Congestion Games

PhD project, Maastricht University, Tobias Harks

📅 July 2014 - June 2018

For my thesis I focus on two questions:

1. Which strategy spaces guarantee a unique Nash equilibrium?
2. Can we construct equilibria within polynomial time?

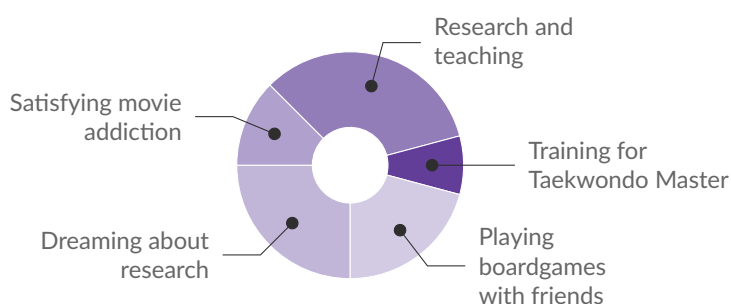
Scheduling with job dependent machine speed

Master Thesis, Radboud University Nijmegen, Tjark Vredeveld

📅 Sept 2013 - May 2014

We introduce a preemptive single machine scheduling problem where the machine speed is externally given and depends on the number unfinished jobs. The objective is to minimize the sum of weighted completion times. We introduce a greedy algorithm that solves the problem to optimality when we work with either unit weights or unit processing times. If both weights and processing times are arbitrary, we show the problem is NP-hard by making a reduction from 3-partition.

A DAY OF MY LIFE



MY LIFE PHILOSOPHY

"Fall down seven times, stand up eight."

MOST PROUD OF



LNMB Diploma

Obtained 30ETCS in PhD courses from the LNMB



BKO

University teaching license



Voluntary work Kampala, Uganda

Teach locals about hardware, open source software and Microsoft office programs.

STRENGTHS

Quick Learner

Problem Solver

Positive Attitude

Teacher & Motivator

Congestion games

Scheduling

Discrete Optimisation

OR

LANGUAGES

Dutch



English



German



EDUCATION

M.Sc. in Mathematics

Radboud University Nijmegen

📅 Sept 2012 – June 2014

Research Track, Operations Research

B.Sc. in Mathematics

Radboud University Nijmegen

📅 Sept 2008 – June 2012

- 30ECTS minor in Computer Science
- Teaching license in Mathematics
- Olympus boardyear: treasurer

PUBLICATIONS

Conference Proceedings

- Harks, T. and V. M. Timmermans (2016). “Uniqueness of Equilibria in Atomic Splittable Polymatroid Congestion Games”. In: *Proceedings of the 4th International Symposium on Combinatorial Optimization (ISCO)*. Springer.
- Timmermans, Veerle and Tjark Vredeveld (2015). “Scheduling with State-Dependent Machine Speed”. In: *Approximation and Online Algorithms: 13th International Workshop, WAOA 2015, Patras, Greece, September 17-18, 2015. Revised Selected Papers*. Ed. by Laura Sanità and Martin Skutella. Springer International Publishing, pp. 196–208.

CONFERENCE TALKS

- **19'th conference on Integer Programing and Combinatorial Optimization (IPCO2017)**
 June 26, 2016  Waterloo, Canada
- **MLSE Seminar**
 April 24, 2016  Maastricht, the Netherlands
- **4th Day on Computational Game Theory**
 February 17, 2016  Zurich, Switzerland
- **4th International Symposium on Combinatorial Optimization (ISCO2016)**
 May 18, 2016  Vietre-Sul-Mare, Italy
- **Operations Research Seminars Amsterdam**
 February 18, 2016  Amsterdam, the Netherlands
- **Lunteren Conference on the Mathematics of Operations Research**
 January 13, 2016  Lunteren, the Netherlands
- **MLSE Seminar**
 November 30, 2015  Maastricht, the Netherlands
- **Dagstuhl meeting: Dynamic Traffic Models in Transportation Science**
 October 8, 2015  Wadern, Germany
- **13th Workshop on Approximation and Online Algorithms (WAOA2015)**
 September 18, 2015  Patras, Greece
- **International Symposium on Mathematical Programming (ISMP2015)**
 July 13, 2015  Pittsburgh, USA
- **12th Workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP2015)**
 June 8, 2015  La Roche-en-Ardenne, Belgium
- **German Operations Research Society (GOR2014)**
 September 4, 2014  Aachen, Germany