Curriculum Vitae

Olga Kuryatnikova kuryatnikova@gmail.com

Academic work experience

Oct 2020 – present	Assistant professor, Erasmus University Rotterdam Erasmus School of Economics, Department of Econometrics Specialization: operations research, conic optimization
Oct 2019 – Oct 2020	Postdoctoral fellow, Ivey Business School Specialization: applications of polynomial programming in energy network optimization
Sep 2015 – May 2019	Teaching assistant , Tilburg University TiSEM, Department of Econometrics & Operations Research

Industrial work experience

Apr 2014 – July 2014	Intern in the department of finance & control, Sociale Verzekeringsbank (the institution that implements national insurance schemes in the Netherlands) — Built an econometric model of the demand for social assistance for retirees
	Expert in the department of corporate ratings, Expert RA (a rating agency in Russia)
June 2011 – Aug 2013	 Developed rating methodologies and conducted rating analysis for pension funds, industrial companies and sovereign issuers
	- Prepared analytical surveys about Russian pension market and country risks

Education

	PhD in Operations Research, Tilburg University
Con 2015 Con 2010	Thesis: "The many faces of positivity to approximate structured
Sep 2015 – Sep 2019	optimization problems"
	Supervisor: R. Sotirov, J.C. Vera, L.F. Zuluaga
Aug 2013 – Aug 2015	Research Master in Operations Research, Tilburg University (cum laude)
Aug 2010 – May 2012	Master in Economics, Higher School of Economics
Sep 2006 – June 2010	Bachelor in Economics, Lomonosov Moscow State University (cum laude)

Research

Publications

- O. Kuryatnikova, R. Sotirov and J. C. Vera. The maximum k-colorable subgraph problem and related problems. ArXiv preprint 2001.09644, 2020
 - Accepted in SIAM Journal on Computing.
- O. Kuryatnikova and J. C. Vera. New bounds for truthful scheduling on two unrelated selfish machines. Theory of Computing Systems, 64: 199–226, 2020.
- O. Kuryatnikova and J. C. Vera. Approximating the cone of copositive kernels to estimate the stability number of infinite graphs. Electronic Notes in Discrete Mathematics, 62: 303–308, 2017. LAGOS'17 IX Latin and American Algorithms, Graphs and Optimization.

Curriculum Vitae Olga Kuryatnikova

Submissions

B. Ghaddar, O. Kuryatnikova and D. K. Molzahn. Adjustable Robust Two-Stage Polynomial Optimization with Application to AC Optimal Power Flow. ArXiv preprint 2104.03107, 2021
 Submitted.

• O. Kuryatnikova, J. C. Vera and L.F. Zuluaga. The copositive way to obtain certificates of non-negativity over general semialgebraic sets. ArXiv preprint 1909.06689, 2019

Revise and resubmit. Mathematical Programming.

• O. Kuryatnikova and J. C. Vera. Positive semidefinite approximations to the cone of copositive kernels. ArXiv preprint 1812.00274, 2018

Revise and resubmit. Mathematical Programming.

Work in progress

• O. Kuryatnikova and J. C. Vera. Generalizations of Schoenberg's theorem on positive definite kernels. ArXiv preprint 1904.02538, 2019

We are considering a generalization of the result in this preprint

• B. Ghaddar, H. Hu, O. Kuryatnikova and H. Wolkowicz. Alternating direction method of multipliers for ACOPF.

Teaching

Optimization under Uncertainty, Erasmus University Rotterdam level: master role: lecturer
Linear Programming, Erasmus University Rotterdam level: bachelor role: lecturer
Optimization, Tilburg University level: master role: teaching assistant and lecturer
Decision making with Business Analytics, Tilburg University level: master role: teaching assistant
Statistics 1 and 2, Tilburg University level: bachelor role: teaching assistant
Mathematics 1, Tilburg University level: bachelor role: teaching assistant

PC skills

- Programming languages: MATLAB, R, Python, SQL
- Statistical software: Stata, SPSS
- Miscellaneous: LaTeX, Ms Office, Jupyter Notebook

Curriculum Vitae Olga Kuryatnikova

Conferences and workshops

July 2021	SIAM Conference on Optimization (OP21) (speaker)
May 2021	IISE Annual Conference & Expo Presentation (speaker)
October 2020	Data Fest Moscow 2020 (speaker)
January 2020	Workshop on Smart Cities Optimization (participant)
July 2018	ISMP, International congress of mathematical optimization (speaker)
October 2017	Oberwolfach Workshop 1744b on Copositivity and Complete Positivity (speaker)
October 2017	LAGOS, IX Algorithms, Graphs and Optimization Symposium (speaker)
July 2017	IFORS, Conference of the international federation of operational research societies (speaker)
July 2017	EUROPT Workshop on Advances in Continuous Optimization (speaker)
August 2019, August 2016	ICCOPT, International conference on continuous optimization (speaker)

Visits

May – June 2018 – Lehigh University; host: Luis F. Zuluaga

April 2018 Delft University of Technology; host: Fernando M. de Oliveira Filho

March 2018 Trier University; host: Mirjam Dür

Other

- Refereeing: Journal of Global Optimization, SN Operations Research Forum
- Conference session organizing: ISMP 2018, "Copositive and completely positive optimization"
- Languages: Russian native, English fluent, Dutch intermediate, German basic
- Citizenship and work permit: Russia