Curriculum Vitae

Olga Kuryatnikova kuryatnikova@gmail.com +31616125543

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
June 2011 – Aug 2013	 Expert in the department of corporate ratings, Expert RA (a rating agency in Russia) 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

Sep 2015 – Sep 2019	PhD in Operations Research, Tilburg University
	Thesis: "The many faces of positivity to approximate structured
	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 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.

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Submissions

• O. Kuryatnikova, R. Sotirov and J. C. Vera. The maximum k-colorable subgraph problem and related problems. ArXiv preprint 2001.09644, 2020

Revise and resubmit. SIAM Journal on Computing.

• 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, O. Kuryatnikova and D. K. Molzahn. Robust ACOPF using polynomial optimization.
- B. Ghaddar, H. Hu, O. Kuryatnikova and H. Wolkowicz. Alternating direction method of multipliers for ACOPF.

Teaching

Expected: May 2021 – July 2021	Linear Programming, Erasmus University Rotterdam level: bachelor role: lecturer
Sep 2018 – Jan 2019 Sep 2017 – Jan 2018	Optimization, Tilburg University level: master role: teaching assistant and lecturer
Aug 2018 – Oct 2018 Aug 2017 – Oct 2017 Sep 2016 – Dec 2016	Decision making with Business Analytics, Tilburg University level: master role: teaching assistant
Sep 2017 – Jan 2018 Sep 2016 – Jan 2017 Feb 2016 – May 2016	Statistics 1 and 2, Tilburg University level: bachelor role: teaching assistant
Sep 2015 – Jan 2016	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

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Conferences and workshops

Data Fest Moscow 2020 October 2020 On-line; invited speaker Workshop on Smart Cities Optimization January 2020 Toronto, Canada; participant ICCOPT, International conference on continuous optimization August 2019 Berlin, Germany; invited speaker ISMP, International congress of mathematical optimization July 2018 Bordeaux, France; invited speaker Oberwolfach Workshop 1744b on Copositivity and Complete October 2017 Positivity Oberwolfach, Germany; invited speaker LAGOS, IX Algorithms, Graphs and Optimization Symposium October 2017 Marseille, France; invited speaker IFORS, Conference of the international federation of operational July 2017 research societies Quebec City, Canada; invited speaker EUROPT Workshop on Advances in Continuous Optimization. July 2017 Montréal, Canada; invited speaker ICCOPT, International conference on continuous optimization August 2016 Tokyo, Japan; invited 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

References

- dr. Daniel Molzahn, the Georgia Institute of Technology, molzahn@gatech.edu, +1 404 894 1876. Relationship: coauthor.
- dr. Juan C. Vera Lizcano, Tilburg University, j.c.veralizcano@uvt.nl, +31 134 662 478. Relationship: PhD supervisor, coauthor.
- prof. dr. Henry Wolkowicz, University of Waterloo, hwolkowi@uwaterloo.ca, +1 519 888 4567. Relationship: coauthor.
- dr. Luis F. Zuluaga, Lehigh University, luis.zuluaga@lehigh.edu, +1 610 758 5182. Relationship: PhD co-supervisor, coauthor.