

ZSUZSANNA JANKÓ

Institute of Economics, Hungarian Academy of Sciences
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EDUCATION

- 2011–2016 **PhD Student**, supervisor: Tamás Fleiner
Eötvös Loránd University
Budapest, Hungary
- 2009–2011 **MSc**, supervisor: Tamás Fleiner
Actuarial and Financial Mathematics
Eötvös Loránd University and Corvinus University
Budapest, Hungary
- 2006–2009 **BSc**,
Mathematics
Eötvös Loránd University, Budapest, Hungary
- 2000–2006 **High school**, Radnóti Miklós Kísérleti Gimnázium, Szeged, Hungary

WORK EXPERIENCE

- 2017– **Research fellow**
"Lendület" Mechanism Design Research Group,
Institute of Economics, Hungarian Academy of Sciences
- 2017– **Senior lecturer**
Department of Operations Research and Actuarial Sciences
Corvinus University
- 2016–2017 **Assistant lecturer**
Department of Operations Research and Actuarial Sciences
Corvinus University
- 2016–2017 **Assistant research fellow**
"Lendület" Strategic Interactions Research Group,
Hungarian Academy of Sciences & Corvinus University
- 2014–2016 **Assistant research fellow**
Department of Operations Research
Eötvös Loránd University

COMPETITIONS & AWARDS

- 2011 Excellent student of the faculty – Eötvös University, Faculty of Sciences
- 2009 **Second Prize** on International Mathematics Competiton (IMC)
- 2006 **Silver Medal** on International Mathematical Olympiad (IMO)
- 2005 **Silver Medal** on International Mathematical Olympiad
- 2004, 2005, 2006 **Second Prize** on Kürschák Competiton

LANGUAGES

- 2014 German, level B1
- 2004 English, level B2

PUBLICATIONS

- Tamás Fleiner, Zsuzsanna Jankó: Choice Function Based Two-Sided Markets: Stability, Lattice Property, Path Independence and Algorithms
Algorithms 2014, 7(1), 32-59 (Special Issue on Matching under Preferences)
- Tamás Fleiner, Zsuzsanna Jankó: On weighted kernels of two posets.
Order, 33:(1) pp. 51-65. 2016
- Katarína Ceclárová, Tamás Fleiner, Zsuzsanna Jankó: House-swapping with divorcing and engaged pairs *Discrete Applied Mathematics 206: pp. 1-8. 2016*

Submitted working papers

- Tamás Fleiner, Zsuzsanna Jankó, Akihisa Tamura and Alexander Teytelboym: Trading networks with bilateral contracts
- Tamás Fleiner, Zsuzsanna Jankó, Ildik Schlotter and Alexander Teytelboym Complexity of Stability in Trading Networks
- Tamás Fleiner, Zsuzsanna Jankó, Ravi Jagadeesan and Alexander Teytelboym Trading Networks with Frictions

• Conference proceedings

Katarína Ceclárová, Tamás Fleiner, Zsuzsanna Jankó House-Swapping with Divorcing and Engaged Pairs *Proceedings of the 9th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications. Fukuoka, Japan, 279-284. 2015*

• Conference proceedings

Tamás Fleiner, Zsuzsanna Jankó and Akihisa Tamura: Stability of generalized network flows, *Proceedings of the 8th Japasese-Hungarian Symposium on Discrete Mathematics and Its Applications, Veszprém, Hungary , 133-141, 2013*

- **Conference proceedings**

Tamás Fleiner, Zsuzsanna Jankó: College Admissions and lattices, *Proceedings of the 7th Hungarian-Japanese Symposium on Discrete Mathematics and Its Applications, Kyoto, Japan, 124-132, 2011*

- **PhD Thesis**

Jankó Zsuzsanna: Structure of generalized stable matchings *ELTE TTK, 2016*

- **MSc Thesis**

Jankó Zsuzsanna: Generalized stable matchings: theory and applications, *ELTE TTK, 2011*

- **BSc Thesis**

Jankó Zsuzsanna: Stabil párosítások és egyetemi felvételi ponthatárok (Stable matchings and college score limits) *ELTE TTK, 2009*

CONFERENCES AND WORKSHOPS

- 2018 Trading Networks with Frictions
SSCW, Social Choice and Welfare
Seoul, South Korea
- 2017 **As an invited speaker:** Trading Networks with Bilateral Contracts
Workshop on Efficient Algorithms, Automata and Data Structures
Košice, Slovakia
- 2017 Trading Networks with Bilateral Contracts
XXXII. Hungarian Operations Research Conference
Cegléd, Hungary
- 2017 MATCH-UP
Cambridge, MA, USA
- 2016 **As an invited speaker:** Various stable matching concepts
Workshop on Future Directions in Computational Social Choice
Budapest
- 2016 Trading Networks with Bilateral Contracts
SSCW
Lund, Sweden
- 2015 House-swapping with divorcing and engaged pairs
Hungarian - Japanese Symposium on discrete mathematics
Fukuoka, Japan
- 2015 On weighted kernels of two posets
MATCH-UP
Glasgow, Scotland
- 2014 Choice Function-Based Two-Sided Markets
Workshop on Challenges in Algorithmic Social Choice
Bad Belzig, Germany

- 2013 Stability of generalized network flows
 Japanese - Hungarian Symposium on discrete mathematics
 Veszprém, Hungary
- 2012 Choice function based two-sided markets
 Matching in the EU, Barcelona, Spain
- 2011 College admissions and lattices
 Hungarian - Japanese Symposium on discrete mathematics
 Kyoto, Japan
- 2011 Stable supply chains
 Conference of Scientific Students' Association
 Budapest, Hungary
- 2010 College admissions and lattices
 Cycles and colourings
 Tatranska Strba, Slovakia

RESEARCH INTERESTS

My main field of research is stable matchings and its applications: e.g. the Hungarian college admission system, and stability in trading networks. The main topic of my MSc and PhD theses was the structure and game theoretical aspect of stable matchings. In our models, instead of preference orderings, we use a more general scheme based on choice functions. From the properties of choice functions (e.g. substitutability, path independence) we deduce various results on stable solutions.