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## PERSONAL DATA

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Name Ágnes Cseh  
Birth data 24.05.1988 in Szolnok, Hungary  
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Homepage <https://sites.google.com/site/csehagnes88/>  
Current position postdoctoral researcher in the group 'Mechanism Design'  
Institute of Economics, Hungarian Academy of Science



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## EDUCATION AND WORK EXPERIENCE

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<b>Postdoc in Computer Science</b>	Reykjavík University, in the group of Magnús Már Halldórsson	Jan-Aug 2016
<b>PhD in Mathematics</b>	University of Technology Berlin Thesis title: Complexity and algorithms in matching problems under preferences. Summa cum laude (highest distinction). Supervisor: Martin Skutella	2012 – 2015
<b>MSc in Mathematics</b>	University of Technology Berlin Berlin Mathematical School , grade: 1.0 (highest distinction)	2010 – 2012
<b>BSc in Applied Mathematics</b>	Budapest University of Technology and Economics	2007 – 2010

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## RESEARCH INTERESTS

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graph algorithms, complexity theory, game theory, combinatorial optimization, matchings under preferences

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## LONGER RESEARCH VISITS

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Host Institute	Country	Research host/program	Duration
Hausdorff Institute for Mathematics Bonn	Germany	Trimester Program 'Combinatorial Optimisation'	Sep-Dec 2015
Tata Institute of Fundamental Research	India	Telikepalli Kavitha	Jan-Apr 2015
University of Glasgow	UK	David F. Manlove	Feb-Aug 2014
Clemson University	USA	Brian C. Dean	Aug-Dec 2013

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## PUBLICATIONS

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Book chapter: **Popular matchings**. In *Trends in Computational Social Choice*, editor: Ulle Endriss. In preparation.

Peer-reviewed papers:

Title	Coauthors	Conference	Journal
<a href="#">The Stable Roommates problem with short lists</a>	R. W. Irving and D. F. Manlove	SAGT 2016	invited to special issue in <i>Theory of Computing Systems</i>
<a href="#">Popular edges and dominant matchings</a>	T. Kavitha	IPCO 2016	invited to special issue in <i>Mathematical Programming</i>

<a href="#">Many-to-one matchings with lower quotas: algorithms and complexity</a>	A. Arulselvan, M. Groß, D.F. Manlove and J. Matuschke	ISAAC 2015	<i>Algorithmica</i> (online first, not yet assigned to an issue)
<a href="#">Stable marriage and roommates problems with restricted edges: complexity and approximability</a>	D.F. Manlove	SAGT 2015	<i>Discrete Optimization</i> , 20:62-89, 2016
<a href="#">Popular matchings with two-sided preferences and one-sided ties</a>	C-C. Huang and T. Kavitha	ICALP 2015	minor revisions at <i>SIDMA</i>
<a href="#">Improved algorithmic results for unsplittable stable allocation problems</a>	B.C. Dean	MATCH-UP 2015	<i>Journal of Combinatorial Optimization</i> , 1-15, 2015
<a href="#">Paths to stable allocations</a>	M. Skutella	SAGT 2014	
<a href="#">Stable flows over time</a>	J. Matuschke and M. Skutella	MATCH-UP 2012	<i>Algorithms (MATCH-UP Special Issue)</i> , 6:532-545, 2013

Miscellaneous publications:

- [Marriages are made in calculations](#). English translation of the winner entry of the Klaus Tschira Award 2016. Foreword by Luca Aceto. Published in the *Bulletin of EATCS*, number 120, p. 179-183, October 2016.
- [Heiraten nach Plan](#). Winner entry of the Klaus Tschira Award 2016 in Mathematics. Published in *Bild der Wissenschaft*, p. 20-23, October 2016.
- [Was Ehestifter und Nierenspende verbindet. The Noble Matchmakers](#). Article in *Mitteilungen der Deutschen Mathematiker-Vereinigung*, vol. 20, issue 4, p. 212-214, 2012.

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#### AWARDS AND HONOURS

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<b>Géza Grünwald medal:</b> early-career researcher award	Dec 2016
<b>Klaus Tschira Award:</b> for achievements in public understanding of Sciences	Oct 2016
<b>Best Poster Awards:</b> at two Summer Schools on Computational Social Choice	2013, 2016
<b>Clara von Simson Prize:</b> Best female graduate at TU Berlin, 3 <sup>rd</sup> place	Jun 2013
<b>TU Berlin Best Degree Award:</b> Best degree in Mathematics	Nov 2012

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#### SCHOLARSHIPS AND ACHIEVEMENTS

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German Telekom Foundation Fellowship: Prestigious grant awarded to 12 scientists annually	2013 – 2015
Invited student poster presentation of the Heidelberg Laureate Forum (40 out of 1800 applicants)	Sep 2014
'COST Action IC1205 on Computational Social Choice' Travel Grant 2000 EUR	Jun 2014
'Methods in Discrete Structures' Graduate School PhD Scholarship	Oct – Dec 2012
Winner of several science slams, on national and international levels	2012 – 2013
Berlin Mathematical School Masters' Scholarship (10 out of 150 applicants)	2010-2012

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#### SELECTED INVITED TALKS

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<b>Popular matchings.</b> Workshop on Future Directions in Computational Social Choice, Budapest	Nov 2016
<b>Arranged marriages in stable matching problems.</b> G-SCOP Seminar, Grenoble	Nov 2015
<b>Paths to stable allocations.</b> IIT Mumbai	Feb 2014
<b>Algorithms to find stable network flows.</b> EURO-INFORMS 2013, Rome	Jul 2013
<b>Nobel matchmakers.</b> Young Women in Discrete Mathematics Conference, Bonn	Jun 2013
<b>What is a stable marriage?</b> Cairo University and Alexandria University	Dec 2012

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### PROFESSIONAL DEVELOPMENTAL ACTIVITIES

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Program Committee member at <b>MATCH-UP 2017</b>	2017
Representative of Iceland in the Management Committee of <b>COST Action IC 1205</b> on Computational Social Choice	Jan - Nov 2016
Reviewer of papers in <b>SODA, IPCO, ICALP, ESA, STACS, AAMAS, APPROX, MFCS, SAGT, WINE, SPAA, SIROCCO, FUN, ISAAC, SEA, FSTTCS, MATCH-UP, TALG, Algorithms, MMOR, JEBO, TCS.</b>	2012 – present
Reviewer of <b>Mathematical Reviews.</b>	
Organizer of the workshops “Workshop on Future Directions in Computational Social Choice”, “100 Years of Matching Theory in Hungary”, “The 12th Workshop on Matching in Practice”	Oct-Dec 2016
Organizing member of <b>ISMP 2012</b> , Berlin	Aug 2012

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### TEACHING AND RESEARCH SUPERVISION

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<b>Foundation of Computer Science</b> , Budapest University of Technology and Economics	2016
Lecturer and tutor of the course for 1 <sup>st</sup> semester Electrical Engineering students.	
<b>Masters’ thesis (2) and seminar supervision</b> , TU Berlin	2012 – 2015
<b>Algorithmic Discrete Mathematics II.</b> Masters’ level course, TU Berlin.	Apr – Jul 2012
Tutor, sessions held in English and in German. Positive evaluation from students.	
<b>Mathematics consultation for engineering students.</b>	2009 – 2010
Tutor, Budapest University of Technology and Economics	

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### LANGUAGES AND SOCIAL ENGAGEMENT

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Full professional proficiency in English and German, native speaker in Hungarian. Former volunteer of the Elsbeth-Seidel-Haus elderly home and dementia nursing home, volunteer of several talent scout organizations and events.

Budapest, December 28, 2016