

PERSONAL DATA

Name: Dávid Csercsik

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EDUCATION AND DEGREES

- **PhD, Information Science** 2010 August,
Pázmány Péter Catholic University Faculty of Information Technology,
Interdisciplinary Doctoral School
Thesis title: Dynamical Modelling and Model Analysis in Neuroendocrinology
Supervisors: Gábor Szederkényi and Katalin Hangos
- **MSc, Biomedical Engineering** 2007 January, Budapest University of Technology and Economics
- **MSc, Electrical Engineering** (specialized in systems and control engineering and biomedical technology) 2005 June, Budapest University of Technology and Economics

LANGUAGES

- Hungarian (mother tongue)
- English (fluent)
- German (basic)

RESEARCH INTERESTS AND CURRENT RESEARCH (WORK IN PROGRESS)

- Networks
- Complex Systems
- Game Theory
- Systems Theory
- Systems Biology
- Reaction Kinetics

RESEARCH EXPERIENCE/APPOINTMENTS

- MTA KRTK, KTI, Game Theory Research Group, 2014 April – present: Postdoctoral Research Fellow (part-time-employed)

- Pázmány Péter Catholic University, Faculty of Information Technology and Bionics
2013 August - present: Postdoctoral Research Fellow
Project: OTKA NF 104706 - Analysis and Control of Polynomial systems via optimization methods
2012 September – 2013 August: Postdoctoral Assistant Professor
- University of Otago, Department of Physiology (Centre for Neuroendocrinology),
Ábrahám Laboratory
2012 February – 2012 June: Postdoctoral Fellow – project: ANGELS – Activators of
Non Genomic Estrogen-Like Signaling
- Computer and Automation Research Institute, Hungarian Academy of Sciences,
Process Control Research Group
2010 September – 2012 December: Research Fellow
2006 September-2010 September: Assistant Researcher

MAIN RESEARCH GRANTS/PROJECTS

- Model-based analysis and diagnosis of nonlinear systems using first principles, OTKA
83440, MTA SZTAKI, Researcher, 2011-07-01 - 2015-06-30
- Analysis and control of polynomial nonlinear systems using optimization methods,
OTKA 104706, Pázmány Péter Catholic University, Senior Researcher, 2012-09-01-
2016-08-31

TEACHING EXPERIENCE

- Quantitative modelling and control of nonlinear molecular processes, Pázmány Péter
Catholic University, 2014 Spring
- Computer Controlled Systems, Pázmány Péter Catholic University, 2007-2011
(assistant), 2013-2014 spring
- Assistant in the Parameter Estimation of Dynamical Systems course, Pázmány Péter
Catholic University, 2007-2009, 2013 fall.
- Assistant in Mathematics courses (Calculus, Multivariate Calculus, Complex
Calculus), Budapest University of technology and Economics 2002-2006 (spring and
fall).

OTHER PROFESSIONAL ACTIVITIES

Reviewer in the following Journals:

- Journal of Theoretical Biology
- IFAC Automatica
- Neurocomputing

Scientific Courses

- ACN 2013 Analysis of Complex Networks: Structure and Dynamics 20-22 February 2013, Politecnico di Milano, Italy

Scientific cooperations

- Department of Networked Systems and Services, Budapest University of Technology and Economics
- Cellular Sensory and Optical Wave Computing Laboratory, Institute for Computer Science and Control, Hungarian Academy of Sciences, Hungary
- University of Pécs, Szentágotthai Research Centre
- Ábraham Laboratory, Centre for Neuroendocrinology, University of Otago, New Zealand
- Department of Endocrine Neurobiology, Institute of Experimental Medicine, Hungarian Academy of Sciences, Hungary
- Systems and Control Laboratory, Computer and Automation Research Institute, Hungarian Academy of Sciences, Hungary
- Neuromorphological and Neuroendocrine Research Laboratory, Department of Human Morphology and Developmental Biology, Hungarian Academy of Sciences, Semmelweis University, Hungary

AWARDS AND HONORS

- MTA SzTAKI Institute Award, 2011-04-12
- MTA SzTAKI Young Researchers Award, 2010-11-24
- MTA SzTAKI Aspirants and PhD students 2008. "Best Presenter" award, 2008-11-12