



Várszegi, Balázs

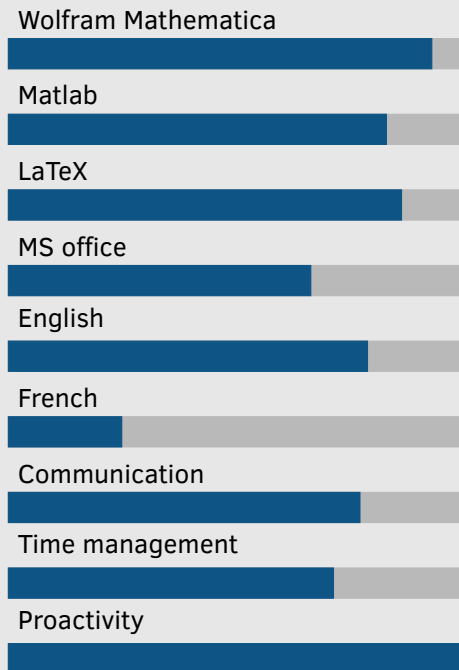
Researcher, Teacher

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About me

I deal with the modelling and analysis of dynamical systems more than three years be it the dynamics of vehicles under braking, or lateral control of vehicles based on model predictive methods, or human balancing, or even economic growth.

Skills



Experience

- 2016– **Research Assistant** MTA-BME Human Balancing Research Group
 - Research: human balancing, skateboarding, time delayed systems
 - Website development and maintenance
- 2017–2018 **Assistant lecturer** Budapest Uni. of Tech. & Econ.¹ Dep. of Applied Mechanics
Participation in teaching and research work of the department
 - Education: Statics, Strength of materials, Dynamics, Vibrations, FEA on Bachelor level; Mechanics on Master level
 - Research: stability of vehicles under braking, model prediction based controllers
 - ENOC conference: managing the volunteer tech team
 - MeMento mentoring system: development & first mentor

Education

- 2014– **PhD in Mechanical Engineering** BME¹, Dep. of Applied Mechanics
research area: *vehicle dynamics, control theory, human balancing*
- 2012-2014 **MSc in Mechanical Engineering** BME¹, Dep. of Applied Mechanics
specialized in *Applied mechanics*
Thesis work at University of Bristol, Bristol, UK
- 2012-2015 **Master in Economics** BME¹, Dep. of Finance
specialized in *Monetary Policy and Public Finance*
- 2009-2013 BSc. absolutorium in Energy Engineering BME¹
specialized in *Building Energetics*
- 2009-2012 BSc in Mechanical Engineering BME¹, Dep. of Applied Mechanics
specialized in *Development Engineering*
- 2002-2008 Graduation Berzsenyi Dániel Secondary Grammar School
specialized in mathematics, freshman camp organizer

Qualifications & trainings

- 2017 CISM-AIMETA course Udine, Italy
Dynamic Stability and Bifurcation in Nonconservative Mechanics
- 2016 CISM course Udine, Italy
Vehicle Dynamics of Modern Passenger Cars, coord.: Peter Lugner
- 2015 Short course Michigan, USA
Sampled-Data and Approximate Predictors for Nonlinear Delay Systems, coord.: Miroslav Krstić & Iasson Karafyllis

Experiences abroad

- 2016 Visitor Nanjing Univ. of Aeronautics and Astronautics, Nanjing, China
10 days duration. Cooperation on the *wheeled robots* project
- 2015 Visiting Researcher Dep. of Mechanical Engineering, Univ. of Michigan, USA
1 month duration. Joint project on accelerating vehicles
- 2014 Exchange student Dep. of Engineering Mathematics, Univ. of Bristol, UK
5 month duration. Master thesis work.

Awards

- 2018 Dean's Award BME¹, Faculty of Mechanical Engineering
- 2017 Most Popular Lecturer Award BME¹, Faculty of Mechanical Engineering
- 2012 1st prize at the Scientific Conference of Students, György Kozmann Special Award BME¹, Faculty of Mechanical Engineering
- 2012 9th position UniTech engineering competition

Me in keywords

complex thinking ■ loyalty ■ reliability ■ intellectual curiosity ■ improvement ■ team ■ constructive debate ■ friendship ■ sincerity ■ movies ■ swimming ■ running ■ cycling

¹ Budapest University of Technology and Economics