

**Dr. habil Attila Borsos****Curriculum Vitae**

Széchenyi István University

Tel: +36 (96) 613 634

Dept. of Transport Infrastructure and Water Resources Eng.

9026 Győr, Egyetem tér 1.

E-mail: borsosa@sze.hu

EDUCATION

MSc in Civil Engineering	September 2017 – November 2019
Delft University of Technology (Civil Engineering, Track Transport & Planning)	
Habilitation (Civil Engineering)	August 2017
Széchenyi István University, Doctoral School of Multidisciplinary Engineering Sciences	
Doctor of Philosophy (Civil Engineering)	September 2007 – October 2010
Széchenyi István University, Doctoral School of Multidisciplinary Engineering Sciences	
MA in Economics	September 2004 – June 2007
Széchenyi István University	
MB in Economics	February 2002 – June 2004
Széchenyi István University	
BSc in Engineering Management	September 1998 – February 2002
Széchenyi István University	

POSITIONS

Programme coordinator – Infrastructure civil engineering MSc	November 2021 -
Vice dean for Scientific Affairs, Faculty of Architecture, Civil Engineering and Transport Sciences	January 2015 -
Associate professor	August 2012 -
Assistant professor	February 2011 – July 2012
Junior lecturer	March 2009 – January 2011
Research fellow	February 2002 - February 2009
Széchenyi István University, Dept. of Transport Infrastructure and Water Resources Eng.	

RESEARCH PROJECTS

Bilateral research project (2019-2.1.11-TÉT-2020-00194) on Conflict analysis of pedestrian-vehicle interactions (Partner institution: Lund University, Sweden, Department of Technology and Society, research group Transport & Roads)	September 2021 – August 2023
Efficient and sustainable solutions in the construction industry using risk management and technological research, GINOP-2.2.1-15-2016-00030	2017-2021
Physical and digital road infrastructure for Autonomous Vehicles, TUDFO/51757/2019-ITM	2019-2021

WORK EXPERIENCE

Course leader:	
DRSC Low- and Middle-Income Countries LMIC Researcher's Course	2022
Lecturer:	
Delft Road Safety Course (DRSC) Alumni Course: Pro-active Road Safety Assessment	2023
Delft Road Safety Course (DRSC)	2019, 2021, 2022, 2023
Road safety audit basic course (10 trainings)	2010-
Road safety audit follow-up course (10 trainings)	2010-

INTERNATIONAL PROJECTS

European Digital Education in Road Infrastructure Management InfRO@D	
Project leader	March 2021 – August 2023

EU-Asia Road Safety Centre of Excellence - RoSCoE	May 2011 – October 2013
Supporting the research activity of two Thai and one Vietnamese PhD students	
Improving road traffic safety in Thailand	March 2009 – August 2010
Developing two road design guidelines (roundabouts and signalized intersections)	
Trendy Travel EU project	October 2007 – October 2010
Promoting sustainable transport modes	
NICE on RoadS - EU-Asia road safety project	September 2005 – August 2008
Developing teaching and research materials	
Ecocity EU project	February 2002 – February 2005
Urban development towards appropriate structures for sustainable transport	

ORGANISATIONAL SKILLS

Conference

ICTCT International Cooperation on Theories and Concepts in Traffic safety, 34th Conference, Győr	October 27-28, 2022
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Workshop

City & Traffic Workshop, Győr	July 9-16, 2006; July 14-21, 2002
Organizing two international student workshops	

Courses

Road safety audit follow-up course	October 2009
Network safety management	November 2008
Road safety aspects in the road design process	May 2008
Road safety audit basic course (2 courses)	September - October 2007
PIARC C2.3 Committee meeting	June 12-13, 2006
PIARC C10 Committee meeting	October 28-30, 2002
Participating in the organization of two PIARC Committee meetings	

TEACHING ACTIVITY

Széchenyi István University

Traffic Engineering (BSc)	2020-
Traffic safety (MSc)	2018-
Quality and risk management	2016-
Sustainable settlements and transport (MSc)	2011-
Quality assurance (BSc)	2011-
Quality management systems (MSc)	2013-
Road safety (ERASMUS)	2009-
Engineering publication and presentation (MSc)	2007-
Construction management I. (BSc)	
Construction management II. (BSc)	2007-
Strategic planning (BSc)	2003-

Delft University of Technology

Geometric Design of Roads and Railways (guest lecturer)	2019-
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COMMITTEE MEMBERSHIP

Doctoral School of Multidisciplinary Engineering Sciences, SZE	2023-
Engineering Habilitation Committee, SZE	2023-
Association of Transport Sciences	2023-
Infrastructure civil engineering MSc, programme coordinator, SZE	2022-
Mobility Committee, SZE	2021-
Hungarian Academy of Sciences, Committee Member, (Transport and Vehicle Engineering)	2021-2023
Council of the Faculty of Architecture, Civil Engineering and Transport Sciences, Széchenyi István University)	2015-
ICTCT International Cooperation on Theories and Concepts in Traffic safety	2022-
Committee on the modifications prescribed by the Directive of the European Parliament and of the Council 2019/1936	2020
Subcommittee leader: Developing the guidelines prescribed by the Governmental Decree on Road infrastructure safety management (176/2011)	2016
World Road Association (PIARC) Committee Member, Technical Committee TC 3.2 "Design and Operation of Safer Road Infrastructure")	2012–2016

PhD SUPERVISION

Defended PhD dissertations

Co-supervisor - Dr. Gabriella Kosztolányi-Iván: Distinction of road categories based on the perception of road users. PhD Dissertation, Széchenyi István University, Győr, 2015.

Co-supervisor –Dr. Pál Hegyi: Analysis of urban road network topologies and spatial distribution of crashes, PhD Dissertation, Széchenyi István University, Győr, 2023.

Co-supervisor – Dr. Zsófia Magyar: Visibility investigation of intersections using remote sensing techniques, PhD Dissertation, Széchenyi István University, Győr, 2023.

PhD researches in progress

Supervisor – Amira Hammami, Safety analysis of Autonomous Vehicle – bicycle interactions, 2022 -

Supervisor – Othmane Boualam, Capacity Model for Roundabouts Taking into Account Active Modes and Autonomous Vehicles, 2021 -

REVIEWED PHD DISSERTATIONS

- 1) Giulia De Cet, Virtual reality application in transportation systems safety analysis, University of Pauda, Italy, 2022.
- 2) Mohammad Maghrour Zefreh, Dynamics of the Urban Road Traffic Flow and its Effect on Urban Road Sustainability, Budapest University of Technology, Budapest, 2020.
- 3) Ma'en Qaseem Ghadi, Methods of segmenting and analyzing of road accident data, Budapest University of Technology, Budapest, 2020.
- 4) Tibor Sipos: Model development for the improvement of traffic safety on road networks, Budapest University of Technology, Budapest, 2017.

AWARDED THESES (NEMESDY ERVIN THESIS AWARD)

- 1) Emese Emőkeyné Jámor 2011, Analysis of the relationship between skid resistance and road safety.
- 2) Gyula Orosz 2012, Analysis of low-cost road safety measures implemented on the national road network.
- 3) Gergely Szécsényi-Nagy 2014, Analysis of the road safety measures implemented on M70, M2 and M15 limited access roads.

CONSULTANCY

Feasibility study of the intermodal interchange in the city of Kőszeg	December 2018
Accident prevention safety packages, Client: Hungarian Public Roads	May 2010
Analysis of road safety treatments with negative Client: Hungarian Public Roads	December 2009
Analysis of the efficiency of road safety treatments, Client: Hungarian Public Roads	December 2007
Feasibility study of the reconstruction of Kossuth Lajos Street in the city of Zalaegerszeg	February 2005
Cost-benefit analysis of the road connecting the border with the town of Jánossomorja	August 2004
Sustainable transport of the Austrian-Hungarian Fertő region	November 2003
Comparison of Cost-benefit analysis methods	July 2002

SCHOLARSHIPS

Hegedűs Gyula Scientific Scholarship (SZE)	September 2018 – August 2019
Magyary Zoltán Postdoctoral Scholarship (NKP)	November 2013 - 2014
Universitas-Győr Foundation Visiting Lecturer Scholarship Florida Atlantic University, Fort Lauderdale, USA	January 2013 – June 2013
Fulbright Scholarship University of Connecticut, Civil & Environmental Engineering, Storrs, USA	September 2010 – February 2011
Erasmus Scholarship Royal Haskoning, Nijmegen, Netherlands	April – June 2010

AWARDS

- 1) Association of Transport Sciences, Paper award, 2022
- 2) Transportation Research Board ANB20 Committee on Safety Data, Analysis and Evaluation 2012 Outstanding Paper Award, Borsos A.; Koren, Cs.; Ivan, J.N.; Ravishanker, N. Long-term safety trends related to vehicle ownership in 26 countries. Transportation Research Board, Washington, DC. January 22-26, 2012
- 3) Best Paper Award (2nd place) Koren, Cs.; Borsos A. 2010. Is Smeed's law still valid? A world-wide analysis of the trends in fatality rates. 1st TSTS Conference, Phuket, Thailand, January 22-23, 2010
- 4) 1st place, Student Participation Program, 49th International Highway Engineering Exchange Program (IHEEP) Conference, Albany, NY, USA, 2007
- 5) 1st place, HEEP Area V Annual Meeting, Budapest, 2007
- 6) 3rd place, Association of Transport Sciences, Thesis award, 2007
- 7) 1st place, Foundation for Road Professionals, Young Road Professionals Award, 2003
- 8) 1st place, Scientific and Artistic Students' Association Conference, 2001, SZE, Győr

PUBLICATIONS

<https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=authors10025903>

LANGUAGE SKILLS

English, Test of English as a Foreign Language (TOEFL), type „C”, M06838	2009
German intermediate, business, type „C”, 922921	2007
English intermediate, business, type „A”, 542269	2005
English intermediate, business, type „B”, 478384	2004

OTHER SKILLS, COMPETENCES

Communication skills

Good ability to adapt to multicultural environments owing to international scholarships and projects.

Good communicational skills gained through teaching and conference talks.

Organizational skills

Skills gained through the organization of an ICTCT conference, two PIARC meetings (World Road Association), five road safety training courses and two student workshops.

Digital competences

Daily use of Microsoft Office tools, SPSS, R Statistical Software, LaTeX

Drivers license

Category B



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