



## PERSONAL INFORMATION



 TU Wien  
 Institute of Transportation  
 Research Unit of Transport Planning and Traffic Engineering  
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 <https://www.tuwien.at/cee/transport/planning>  
[Publications \(TU Wien\)](#)  
[Publications \(ResearchGate\)](#)

Year of birth 1967 | Nationality Austria

## WORK EXPERIENCE

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- 10/2020 - present **Head of the Research Unit of Track-bound Transportation Systems**  
 (until 03/2023 Research Unit of Railway Engineering, Transport Economy and Ropeways),  
 Faculty of Civil and Environmental Engineering (until 08/2022 Faculty of Civil Engineering),  
 TU Wien (Austria)
- 10/2017 - present **Head of the Research Unit of Transport Planning and Traffic Engineering**  
 Faculty of Civil and Environmental Engineering (until 08/2022 Faculty of Civil Engineering),  
 TU Wien (Austria)
- 01/2009 - 09/2017 **Ao.Univ.Professor**  
 Research Unit of Transport Planning and Traffic Engineering, Institute of Transportation,  
 Faculty of Civil Engineering, TU Wien (Austria)
- Since 1994 involved in all regular teaching activities at the institute - lectures and courses concerning transport planning and modelling, coaching of master theses
  - Main Research focus in the fields of: Transport related air pollution, Transport system user behavior (empirical and statistical analyses), Transport and traffic modelling, System Dynamics and cause-effect-relations in the field of transport system, land use and social systems, Public transport
  - Head of the IT-infrastructure at the Research Center
- 3/2007 - 12/2008 **Ao.Univ.Professor**  
 Institute of Transport Planning and Traffic Engineering, Faculty of Civil Engineering, TU Wien (Austria)
- Teaching Activities and research
  - Head of the IT-infrastructure at the Research Unit
- 07/2004 - 02/2007 **Senior Research Fellow**  
 Institute of Transport Planning and Traffic Engineering, Faculty of Civil Engineering, TU Wien (Austria)
- Teaching Activities and research
  - Head of the IT-infrastructure at the Research Unit
- 07/2002 - 06/2004 **Guest Research Fellow**  
 Institute for Transport Studies (ITS), University of Leeds (United Kingdom)
- Main research focus in the fields of: Land use and transport interaction model development, Transport policy appraisal, Freight modelling

- 05/1994 - 06/2002 **Research Fellow**  
 Institute of Transport Planning and Traffic Engineering, Faculty of Civil Engineering, TU Wien (Austria)

  - Transport and land use modelling, teaching transport planning and methods in transport planning
  - Head of the IT-infrastructure at the Research Unit
  
- 03/1990 - 04/1994 **Research Officer**  
 Institute of Transport Planning and Traffic Engineering, Faculty of Civil Engineering, TU Wien (Austria)

  - Emission monitoring, statistical analyses, household surveys
  
- 1988 - 1989 **Technician**  
 Computer centre, Waidhofen/Ybbs (Austria)

  - Computer programming, management

**EDUCATION AND TRAINING**

- 2006 **Habilitation in Transport Planning, date of award: 12<sup>TH</sup> October 2006**  
 Institute of Transport Planning and Traffic Engineering, Faculty of Civil Engineering, TU Wien

  - Habilitation Thesis: Freight Transport – A Holistic Approach, Beiträge zu einer ökologischen und sozial verträglichen Verkehrsplanung, Institut für Verkehrsplanung und Verkehrstechnik, Technische Universität Wien, Band 2/2005, ISBN 3-9501909-2-9
  
- 1995 - 1999 **Study of a Doctor's degree in Social and Economic Sciences, date of award: 27<sup>TH</sup> October 1999** EQF 8  
 Faculty of the Social and Economic Sciences, University of Vienna

  - Doctoral Thesis: Interdisziplinäre Betrachtung der Auswirkungen verkehrlicher Maßnahmen auf sozioökonomische Systeme (Interdisciplinary view of impacts of transport policies on socio-economic-systems), Dissertation, 1999, coached by Univ. Doz. Dr. Ralf Risser and Prof. Dr. Anton Amann from the Institut für Soziologie, Universität Wien
  
- 1989 - 1994 **Study of a Master's degree in Computer Science and Business Administration, date of award: 1<sup>TH</sup> June 1994** EQF 7  
 Faculty of the Social and Economic Sciences, University of Vienna

  - Master Thesis: Der kombinierte Verkehr als betriebswirtschaftliches Problem, dargestellt anhand einer Fallstudie aus der Praxis, Diplomarbeit, 1994, coached by Univ. Doz. Dr. Ludwig Mochty from the Institut für Betriebswirtschaftslehre, Universität Wien

**PERSONAL SKILLS**

Mother tongue German

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1/C2	C1/C2	C1/C2	C1/C2	C1/C2

Digital skills

- Operating systems (Linux, Windows, VMWare)
- Programming languages (C, C#, Visualbasic, Fortran, Modula, Pascal, HTML)
- MSOffice (Excel, Word, Powerpoint, ACCESS, Outlook etc.)
- Special software (CAD, GIS, VENSIM, SPSS, Derive, VISUM, VISSIM etc)

**ADDITIONAL INFORMATION**

Honours and awards

- Best Lecture Award 2018 at the Faculty of Civil Engineering, TU Wien
- Medal of Honor (June 2015) - Faculty of Civil Engineering, Technical University Bratislava (Slovakia)

## Research record - activities

- About 10 books and book-editor
- Author of more than 10 book chapters
- Author of more than 80 Journal papers and proceedings
- More than 180 speeches
- Involvement in more than 30 national research projects
- Involvement in more than 35 (mainly EU-funded) research projects

## Memberships

- Oesterreichische Verkehrswissenschaftliche Gesellschaft -Stellvertreter Wissenschaftliche Leitung
- Oesterreichische Forschungsgesellschaft fuer das Verkehrs- und Strassenwesen
- Forum Oesterreichischer Wissenschaftler für Umweltschutz
- WCTRS -World Conference on Transport Society– full member of the scientific board (since 2014)
- WCTRS -World Conference on Transport Society – Chair of Special Interest Group G2- National and Regional Transport Policy
- WCTRS -World Conference on Transport Society – member in Special Interest Group G3 – Urban Transport Policy
- Oversee Member of International Association of Traffic and Safety Sciences Japan (IATSS - [www.iatssforum.jp/english/](http://www.iatssforum.jp/english/) )

## Other activities

- Guest editor – System Dynamics Review Volume 26 (2010)
- Guest editor – Journal for Sustainable transport Volume 2 (2008)
- Reviewer for a set of journals such as Transport Policy, Journal for Sustainable Transport, System Dynamics Review, Journal of Asian Transport Research Society, etc.
- Dec. 2014 - External Examiner PhD viva, University of Leeds, Institute for Transport Studies
- Dec. 2014 - External Examiner PhD viva, University of Leeds, Institute for Transport Studies
- Guest editor – Transport Policy Journal 2018/2020
- Guest editor – Case Studies – Transport Policy Journal 2018/2020
- Associate Editor – European Transport Research Review Journal since 2019 ongoing
- Guest editor – European Transport Research Review Journal 2016/2017
- Guest editor – Case Studies – Transport Policy Journal 2016/2017
- Reviewer European Commission for the research programs Horizon 2020, FP7, FP6
- Evaluator at the NWO-SAR-Programm – Netherlands Organisation for Scientific Research- Social Science – Sustainable Accessibility of the Randstad (06/2009, 06/2010 and 03/2012)
- Research stays in Brazil (2013), Cambodia (2005), Columbia/Bogota (2016), Egypt (2012,2013), Malaysia (2018), Thailand (2005, 2006), Japan (2005, 2014), UK (2002-2004), Vietnam (2008-2013) etc.

## Research focus at TU Wien

- Research in transport related air pollution (empirical and statistical analyses)
- Research in transport system user behaviour (empirical and statistical analyses)
- Transport and traffic modelling (demand and supply modelling on micro-, meso- and macro-level)
- Research in System Dynamics and cause-effect-relations in the field of transport system, land use and social systems
- Freight transport
- Research in the field of public transport
- Research in barrier free transport
- Research on autonomous vehicles
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## Research focus at TU Wien

- Land use and transport interaction model development
- Transport policy appraisal
- Freight modelling

## Publications - books and book chapters

- O. Fritz, R. Hierländer, G. Streicher, R. Haller, A. Mayerthaler, G. Emberger: "ETMOS - An Integrated Economic Transport Modelling System for Austria"; WIFO Österreichisches Institut für Wirtschaftsforschung, Wien, 2010, 63 S.
- T. Brezina, G. Emberger et al.: "Handbuch Öffentlicher Verkehr. Schwerpunkt Österreich."; Bohmann Verlag, Wien, 2009, ISBN: 978-3-901983-91-7; 302 S.
- G. Emberger, P. Pfaffenbichler: "Wechselwirkungen und Rückkopplungen im Individualverkehr und im Güterverkehr"; in: "Paradigmenwechsel im Verkehrswesen", H. Knoflacher, H. Frey (Hrg.); Österreichische Verkehrswissenschaftliche Gesellschaft - ÖVG, Wien, 2016, S. 69 - 86.
- G. Emberger: "Urban Transport in Ho Chi Minh City, Vietnam"; in: "Sustainable Ho Chi Minh City: Climate Policies for Emerging Mega Cities", A. Katzschner, M. Waibel, D. Schwede, L. Katzschner, M. Schmidt, H. Storch (Hrg.); Springer International Publishing, Cham/CH, 2016, (eingeladen), ISBN: 978-3-319-04614-3, S. 175 - 191.
- G. Emberger, P. Pfaffenbichler: "Von monomodalen Verkehrsmodellen hin zu einer dynamischen, multimodalen Betrachtung der Wechselwirkungen zwischen Flächennutzung und Verkehr"; in: "Der Lehrer Knoflacher und die nächste Generation. Festseminar Prof. Hermann Knoflacher zum 75. Geburtstag. Beiträge zu einer ökologisch und sozial verträglichen Verkehrsplanung 2/2015", H. Zukal (Hrg.); Institut für Verkehrswissenschaften - Forschungsbereich für Verkehrsplanung und Verkehrstechnik, Technische Universität Wien, 2015, ISBN: 978-3-9503375-4-9, S. 175 - 188.
- B. Mousseau, A. Fulda, G. Emberger: "Modelling impacts of local policies to optimise the development of electric vehicles"; in: "WCTRS - SIG10 Workshop: Emerging Urban Transport Policies towards Sustainability", H. Zukal (Hrg.); Institut für Verkehrswissenschaften - Forschungsbereich für Verkehrsplanung und Verkehrstechnik, Technische Universität Wien, Wien, 2012, ISBN: 978-3-9503375-0-1, S. 123 - 138.

## Publications - journals

- H. Nguyen, H. Nguyen, G. Emberger: "Application of a macroscopic transport model in Ho Chi Minh City"; Proceedings of the Eastern Asia Society for Transportation Studies, Vol. 9 (2013), 9.
- G. Emberger: "Public Transport - a Solution for Emerging Megacities like Ho Chi Minh City?"; Future Megacities - Megastädte von morgen, Newsletter, Vol. 2 (2012), July; S. 6.
- A. D. May, S. Ison, G. Emberger, A. Musso: "Urban transport initiatives: Implications for policy"; Transport Policy, Vol. 20 (2012), S. 103 - 104.
- P. Pfaffenbichler, G. Emberger, S. Shepherd: "A system dynamics approach to land use transport interaction modelling: the strategic model MARS and its application"; System Dynamics Review, Volume 26 (2010), No 3; S. 262 - 282.
- G. Emberger, P. Pfaffenbichler, L. Riedl: "MARS meets ANIMAP: Interlinking the Model MARS with dynamic Internet Cartography"; Journal of Maps, 1079 (2009), S. 240 - 249.
- P. Pfaffenbichler, G. Emberger, S. Shepherd: "The Integrated Dynamic Land Use and Transport Model MARS"; Network and Spatial Economics, 3 (2008).