



Curriculum vitae

Prof. Dr. Allister Loder

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Address	Professorship of Mobility Policy TUM School of Social Sciences and Technology Technical University of Munich Arcisstraße 21, 80333 Munich, Germany
Mail	allister.loder [at] tum.de
Date of birth	28.07.1989
ORCID 	0000-0003-3102-6564
Google Scholar	D1AkN0cAAAAJ

Biosketch

Allister Loder's interest lies in understanding and modeling complex systems and networks where physics, policy, and human behavior interact, as is the case in mobility. His expertise lies in optimization, choice modeling, econometrics, machine learning, and data science with application to traffic flow, travel behavior and transport policy. Notable contributions are developing estimation methods for the multimodal macroscopic fundamental diagram and its applications to transportation planning, conducting a large-scale travel survey to observe the natural experiments of the German public transport fare innovations *9-Euro-Ticket* and *Deutschlandticket*, and investigating new policies for road user charges with surveys and simulations.

Allister Loder completed his master's degree in Energy Science and Technology in 2015 at ETH Zurich and received his Ph.D. with distinction in Transportation Sciences in 2019 from the same institution. After completing his Ph.D., he worked as a mobility data and simulation consultant at the Swiss Federal Railways (SBB), where he worked, e.g., on the impact of COVID-19 on travel behavior. From 2021 to 2023, he worked as a postdoctoral researcher at the Chair of Traffic Engineering and Control at the Technical University of Munich (TUM). He has been appointed as an assistant professor of Mobility Policy in October 2023. At the same time, he set up an Emmy-Noether research group funded by the DFG.

During his studies, he was supported by the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes) and from 2022 to 2023 he was a fellow of the bidt Graduate Center, an Institute of the Bavarian Academy of Sciences and Humanities.

Professional experience

Since 10/2023	Assistant Professor of Mobility Policy TUM School of Social Sciences and Technology Technical University of Munich, Germany
02/2021 – 09/2023	Postdoc Chair of Traffic Engineering and Control Technical University of Munich, Germany
04/2020 – 01/2021	Consultant for mobility data and simulation Swiss Federal Railways (SBB), Berne, Switzerland
11/2019 – 02/2020	Postdoc Institute for Transport Planning and Systems ETH Zurich, Switzerland
07/2015 – 10/2019	Research assistant Institute for Transport Planning and Systems ETH Zurich, Switzerland
04/2015 – 06/2015	Internship Corporate Strategy Deutsche Bahn AG, Frankfurt, Germany
02/2015 – 03/2015	Student research assistant Group for Sustainability and Technology ETH Zurich, Switzerland
02/2014 – 04/2014	Internship Drees & Sommer Advanced Building Technologies GmbH, Stuttgart, Germany
08/2013 – 01/2015	Student research assistant Bits to Energy Lab, ETH Zurich, Switzerland

Education

08/2015 – 10/2019	Ph.D. (Dr. sc. ETH Zürich) in Transportation Sciences ETH Zurich, Switzerland
09/2012 – 02/2015	Master of Science in Energy Science and Technology ETH Zurich, Switzerland
10/2009 – 07/2012	Bachelor of Science Mechatronics Technical University of Hamburg, Germany
07/2009	Abitur Friedrich-Ebert-Gymnasium, Hamburg, Germany

Awards and scholarships

09/2023	DFG-Emmy Noether Research Group
05/2020	ETH-Silver Medal for an outstanding PhD thesis (best 8%)
01/2019	2018 TRB Cunard Award of the Transportation Research Board (TRB)
04/2010 – 02/2015	German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)

Research visits

03/2023	Institute of Transport and Logistics Studies, University of Sydney, Australia
06/2019	Institute of Transport and Logistics Studies, University of Sydney, Australia
09/2016	Department of Agricultural and Applied Economics, University of Wisconsin-Madison, USA

Professional activities

Reviewer	Transportation Research Part A: Policy and Practice, Transportation Research Part B: Methodological, Transportation Research Part C: Emerging Technologies, Transportation Research Part E: Logistics and Transportation Review, Transportation Research Record, Transport Reviews, Transportation Science, Transportation, Case Studies in Transport Policy, Transport Policy
Citizenship	Gender Equality Officer at the TUM School of Social Sciences and Technology; Aptitude Committee Member at the TUM School of Social Sciences and Technology; Member of the TRB AP030 Standing Committee for Public Transport Marketing and Fare Policy

Teaching

2023 – today	From Reality to Models to Mobility Policy (2 SWS)
2024 – today	Transport Economy and System Assessment (3 SWS)
2024 – today	Advanced Methods for Measurement and Modeling of Choice Behavior (with Application to Mobility Policy)
2025 – today	Innovation and Public Policy for Sustainable Mobility (4 SWS)
Contributions to joint courses	
2023 – today	Project Seminar – Transportation Systems
2023 – today	Marketing Mobility

List of projects won as PI

Start date (YY/MM)	Sponsor	Title	Duration [Months]	Budget [k€]	Total budget [k€]	Note / Coordinator / Partner
11/2024	BMBF	MCube - MobiPionier	36	268	1,000	PI; DBC, SWM, LHM, ADAC Stiftung
10/2023	DFG	READAPT - Resiliente, anpassungsfähige und emissionsminimale Verkehrssysteme	72	1,224	1,224	-
10/2022	bidt	App-based mobility management for net-zero and self-sufficiency	48	450	450	-
			Total	1,942	2,674	

List of abbreviations

- bidt: Bayerisches Forschungsinstitut für Digitale Transformation, ein Institut der Bayerischen Akademie der Wissenschaften
- BMBF: Bundesministerium für Bildung und Forschung
- DBC: Deutsche Bahn Connect GmbH
- DFG: Deutsche Forschungsgemeinschaft
- LHM: Landeshauptstadt München
- SWM: Stadtwerke München