

Dr Johannes Müller

Urban analysis, traffic simulation and stakeholder involvement

CURRICULUM VITAE

Professional Experience

- since 10/2023 **Research team lead**, at *TU Munich*, Munich, School of Engineering and Design, Lehrstuhl für Verkehrstechnik
- Lectures for Urban Infrastructure Design, Supervision of PhD theses within the research group New Transportation Systems, funding acquisition
- since 11/2019 **Scientist**, at *AIT Austrian Institute of Technology GmbH*, Vienna, Center for Energy - Digital Resilient Cities
- Supporting the MATSim group in setting up and calibrating the model, implementing policy experiments, statistical analyses
 - Acquisition of international and national projects in the field of urban and transport planning, project lead and management
 - Guest lectures at TU Munich module "Traffic Flow Simulation" (since summer 2021)
- 09/2016-08/2019 **Post-Doctoral Researcher**, at *Future Cities Laboratory of ETH Zurich*, Singapore, leading the work stream *Citizen Design Science* in the Big Data Informed Urban Design and Governance project
- Study manager of several citizen engagement campaigns and coordinator of interdisciplinary research studies, collaborations with local planning authorities, Co-supervision of PhD theses
 - Evaluation of geo-referenced crowdsourced design proposals: machine learning geocustering, point pattern analysis, functional summary statistics, preparation and editing of 3D models (obj, geojson) for web interfaces
- 04/2016 - 07/2016 **Doctoral Student**, at *the Chair of Information Architecture*, ETH Zurich, Preparation for the position at Future Cities Lab

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11/2012 - **Doctoral Student**, at the Department for Transportation and Land-Use
03/2016 *Planning of the University of Federal Armed Forces Munich*

- Temporal and spatial analysis and modelling of carsharing bookings: spatial regression models (linear, poisson, negative-binomial), time series analysis (ARIMA, Holt-Winters Filtering), modelling of environmental effects of carsharing systems
- Teaching for master courses (Decision and optimisation theory in transportation) and supervision of bachelor/master theses
- Topic of the PhD thesis "Statistical Explanatory and Prediction Models for Free-Floating Carsharing Systems"

08/2016 **Doctoral Degree**, magna cum laude

Studies

10/2006 - **Mathematics, Diploma**, at the Ludwig-Maximilians-University Munich,
03/2012 Minor: Applied statistics

focus on: probability theory, generalized regression models, spatial statistics, mathematical logic, and cryptography

Topic of the diploma thesis: "Zero-Knowledge-Proofs"

03/2012 **Diploma**

Volunteering

Scouts

Language skills

German	Native	English	Fluent
French	Good		

Computer skills

MATSim	advanced	Git	intermediate
Python	advanced	R	intermediate
SPSS	intermediate	ArcGIS/QGIS	advanced

Website

<https://joh-mueller.github.io/index/>

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