

# Dr Johannes Müller

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*Urban analysis, traffic simulation and stakeholder involvement*

## CURRICULUM VITAE

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### Professional Experience

- 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
  - 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
  - Co-supervision of PhD theses
- 04/2016 - 07/2016 **Doctoral Student**, at the Chair of Information Architecture, ETH Zurich, Preparation for the position at Future Cities Lab
- 11/2012 - 03/2016 **Doctoral Student**, at the Department for Transportation and Land-Use Planning of the University of Federal Armed Forces Munich

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- 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
- Assistance in teaching for master courses (Decision and optimisation theory in transportation) and supervision of student projects and theses
- Topic of the PhD thesis "Statistical Explanatory and Prediction Models for Free-Floating Carsharing Systems" (Dissertation and doctoral viva in English)

08/2016 **Doctoral Degree**, *average grade: 1.7*, 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**, *average grade: 1.7*

## Volunteering

**Scouts, Scientists For Future**

## 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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