Konstantin Klemmer

PhD student in Urban Informatics & Data Science
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Education

Center for Urban Science + Progress, New York University, Brooklyn, NY, USA	10/2019 – 10/2020
▪ Visiting PhD student	07/2018 – 08/2018
▪ Emphasis: Geo-spatial machine learning for urban policy	
▪ Supervision: Professor Daniel Neill	

Alan Turing Institute, London, United Kingdom	10/2018 – 09/2019
▪ Enrichment Student (Visiting PhD student)	

EPSRC Centre for Doctoral Training – Urban Science & Progress, University of Warwick, Coventry, United Kingdom	10/2017 – 09/2021
▪ Urban Science, MPhil/PhD	
▪ Emphasis: Uncovering interaction patterns between mobility services, the built environment and social structures in an urban setting	
▪ Supervision: Professor Stephen Jarvis	

Imperial College London and University College London, London, United Kingdom	10/2016 – 09/2017
▪ Transport and Business Management, MSc with Distinction (grade: 72/100)	
▪ Emphasis: Quantitative methods and statistics, transport modelling	
▪ Thesis: *Isolating the effect of cycling on local business environments in cities (74/100)*	

Albert-Ludwigs-University, Freiburg, Germany	10/2012 – 02/2016
▪ Economics, BSc (grade: 1.6, ranked 4th out of 74 in class)	
▪ Emphasis: Data analytics, economic policy	
▪ Thesis: *Exploring the spatio-temporal dynamics of carsharing utilization: A case study from Amsterdam* (1.0)	

Gymnasium Grafing (secondary school), Grafing, Germany	09/2003 – 07/2011
▪ GCE / Abitur	
▪ Intensive courses: German, Mathematics, English, French, Geography	

Work experience

Department of Computer Science, University of Warwick, Coventry, UK	10/2017 – present
▪ Teaching assistant	
▪ Responsibilities: teaching and group supervision of classes in basic computing, software engineering and data mining	

Geospin GmbH, geospatial data analytics startup, Freiburg, Germany	05/2016 – present

- ▪ Student fellow
- ▪ Responsibilities: Data science and machine learning research, developing and implementing a social media strategy, market research and preparation of sales pitches, business development

Chair of Economic Policy and Constitutional Economics (Prof. Dr. Lars P. Feld), University of Freiburg, Germany	05/2014 – 09/2016

- ▪ Student assistant
- ▪ Responsibilities: Research assistance (*econometric modelling, data preparation*), administration of the Chair's website and e-learning modules, event management

Chair of Information Systems Research (Prof. Dr. Dirk Neumann), University of Freiburg, Germany	03/2013 – 04/2016

- ▪ Student assistant and tutor
- ▪ Responsibilities: Research assistance (*data preparation and statistical analysis, data visualization*), teaching programming classes for undergraduate students, administration of e-learning modules

Walter-Eucken-Institute, Freiburg, Germany	03/2014 – 05/2014

- ▪ Intern
- ▪ Responsibilities: Analysis of scientific articles, data processing, preparation of scientific presentations

EVBZ, care centre for people with disabilities, Steinhöring, Germany	09/2011 – 08/2012

- ▪ Voluntary service
- ▪ Responsibilities: Assistance and care for multiply disabled people, carpool supervision, warehousing

Extracurricular activities

Applied Machine Learning Days (AMLD) 2019, Lausanne, Switzerland	10/2018 – 01/2019

- ▪ Co-organizer of the "AI & Cities" track
- ▪ Responsibilities: organising a full day conference track on the impacts of AI on urban living and governance. The programme included speakers and experts from the Harvard Kennedy School, MIT Media Lab, DeepMind, EPFL Lausanne, ETH Zurich and more.

Imperial College Data Science Society (ICDSS)	11/2016 – 09/2017

- ▪ Team Talent Development
- ▪ Responsibilities: organising and teaching machine learning workshops in R and Python, arrange academic and industry talks, promote data science and its social impacts

Aktionskreis Freiburger Schule (Freiburg school association)	09/2015 – 09/2017

- ▪ Honorary staff member
- ▪ Responsibilities: public relations, social media, event management

Student's Union of the Economics Department, University of Freiburg	10/2012 – 09/2016

- Elected student representative in various committees such as faculty council or student parliament
- Co-president of the Economics Student Union (*10/2013-10/2015*)
- Responsibilities: University level politics, leading multiple project groups, organising several events, budget planning, public relations

Mentoring programme of the Economics Department, University of Freiburg	10/2014 – 03/2015

- Mentor
- Responsibilities: Group supervision for first-semester undergraduate students

Awards and scholarships

Alan Turing Institute, Enrichment scheme	10/2018 – 09/2019

- Top-up scholarship for visiting students
- Value: £ 5,000 pa.

EPSRC scholarship	10/2017 – 09/2021

- PhD studentship from the Engineering and Physical Sciences Research Council (https://www.epsrc.ac.uk/)
- Value: covers PhD programme fees

University of Warwick scholarship	10/2017 – 09/2021

- Stipend from the University to cover living costs and research
- Value: £ 14,553 pa. + research allowance

e-fellows.net scholarship	09/2014 – present

- Awarded for outstanding results in studies and extracurricular activities

Publications

2019

- **Klemmer K**, Koshiyama A, Flennerhag S: *Augmenting Correlation Structures in Spatial Data Using Deep Generative Models* 2019. https://arxiv.org/abs/1905.09796

- Luo M, Wen H, Luo Y, Du B, **Klemmer K,** Zhu H: *Dynamic Demand Prediction for Expanding Electric Vehicle Sharing Systems: A Graph Sequence Learning Approach* 2019. https://arxiv.org/abs/1903.04051

2018

- **Klemmer K**, Brandt T, Jarvis S A: *Isolating the Effect of Cycling on Local Business Environments in London* 2018. PLOS ONE, 13(12), e0209090. https://doi.org/10.1371/journal.pone.0209090

- **Klemmer K**, Neill D B, Jarvis S A: *Modeling Rape Reporting Delays Using Spatial, Temporal and Social Features* 2018. NeurIPS Workshop on Decision-Making in the Spatiotemporal Domain. 32nd Conference on Neural Information Processing Systems (NeurIPS 2018), Montreal, Canada. https://arxiv.org/abs/1811.03939

- Munoz-Mendez F, **Klemmer K**, Han K, Jarvis S A: *Community structures, interactions and dynamics in London's bicycle sharing network* 2018. 7th International Workshop on Pervasive Urban Applications, UbiComp '18 ACM International Joint Conference on Pervasive and Ubiquitous Computing. Association for Computing Machinery (ACM). https://doi.org/10.1145/3267305.3274156.

2017

- Willing C, **Klemmer K**, Brandt T, Neumann D: *Moving in Time and Space - Location Intelligence for Carsharing Decision Support* 2017. Decision Support Systems, 99, p. 75-85. https://doi.org/10.1016/j.dss.2017.05.005.

2016

- **Klemmer K**, Willing C, Wagner S, Brandt T: *Explaining Spatio-Temporal Dynamics in Carsharing: A Case Study of Amsterdam* 2016. 22nd Americas Conference on Information Systems (AMCIS 2016), San Diego, CA. https://doi.org/10.13140/RG.2.1.3510.8721

Languages

- German *(native language)*
- English *(fluent, IELTS academic: 8.0)*
- French *(advanced)*
- Spanish *(basic)*

IT skills

Operating Systems:
　　Windows OS, Linux OS
Statistics & Machine Learning:
　　R, Python, Biogeme, SPSS (h2o, PyTorch, scikit-learn)
Others:
　　QGIS, Microsoft Office, LaTeX, PHP, PostgreSQL, HTML, PostGIS, VBA, JavaScript, Git

Interests

Sports: Handball, skiing and mountaineering
Music: Classical music (piano), electronic music