

Konstantin Klemmer

PhD student in Urban Informatics & Data Science

University of Warwick & New York University

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Education

Machine Learning for Good (ML4G) Lab, New York University, Brooklyn, NY, USA	10/2019 – 10/2020
<ul style="list-style-type: none">▪ Visiting PhD student▪ Emphasis: Novel methods for identification of and learning from spatial patterns in urban data▪ Supervision: Professor Daniel Neill	07/2018 – 08/2018

Alan Turing Institute, London, United Kingdom	10/2018 – 09/2019
<ul style="list-style-type: none">▪ Enrichment Student (Visiting PhD student)	

EPSRC Centre for Doctoral Training – Urban Science & Department of Computer Science, University of Warwick, Coventry, United Kingdom	10/2017 – 09/2021
<ul style="list-style-type: none">▪ Urban Science, MPhil/PhD▪ Emphasis: Geo-spatial machine learning for urban decision and policy making▪ Supervision: Professor Stephen Jarvis	

Imperial College London and University College London, London, United Kingdom	10/2016 – 09/2017
<ul style="list-style-type: none">▪ Transport and Business Management, MSc with Distinction (grade: 72/100)▪ Emphasis: Quantitative methods and statistics, transport modelling▪ Thesis: <i>Isolating the effect of cycling on local business environments in cities</i> (74/100)	

Albert-Ludwigs-University, Freiburg, Germany	10/2012 – 02/2016
<ul style="list-style-type: none">▪ Economics, BSc (grade: 1.6, ranked 4th out of 74 in class)▪ Emphasis: Empirical economics, information systems, economic policy▪ Thesis: <i>Exploring the spatio-temporal dynamics of carsharing utilization: A case study from Amsterdam</i> (1.0)	

Gymnasium Grafing (secondary school), Grafing, Germany	09/2003 – 07/2011
<ul style="list-style-type: none">▪ GCE / Abitur▪ Intensive courses: German, Mathematics, English, French, Geography	

Work experience

Department of Computer Science, University of Warwick, Coventry, UK	10/2017 – present
<ul style="list-style-type: none">▪ Teaching assistant	

<ul style="list-style-type: none"> Responsibilities: teaching and group supervision of classes in basic computing, software engineering and data mining 	
<hr/> Department of Computer Science, University of Warwick, Coventry, UK <ul style="list-style-type: none"> Teaching assistant Responsibilities: teaching and group supervision of classes in basic computing, software engineering and data mining <hr/>	10/2017 – present
Geospin GmbH, geospatial data analytics startup, Freiburg, Germany <ul style="list-style-type: none"> 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 <hr/>	05/2016 – 12/2019
Chair of Economic Policy and Constitutional Economics (Prof. Dr. Lars P. Feld), University of Freiburg, Germany <ul style="list-style-type: none"> Student assistant Responsibilities: Research assistance (<i>econometric modelling, data preparation</i>), administration of the Chair's website and e-learning modules, event management <hr/>	05/2014 – 09/2016
Chair of Information Systems Research (Prof. Dr. Dirk Neumann), University of Freiburg, Germany <ul style="list-style-type: none"> Student assistant and tutor Responsibilities: Research assistance (<i>data preparation and statistical analysis, data visualization</i>), teaching programming classes for undergraduate students, administration of e-learning modules <hr/>	03/2013 – 04/2016
Walter-Eucken-Institute, Freiburg, Germany <ul style="list-style-type: none"> Intern Responsibilities: Analysis of scientific articles, data processing, preparation of scientific presentations <hr/>	03/2014 – 05/2014
EVZ, care centre for people with disabilities, Steinhöring, Germany <ul style="list-style-type: none"> Voluntary service Responsibilities: Assistance and care for multiply disabled people, carpool supervision, warehousing 	09/2011 – 08/2012

Extracurricular activities

Applied Machine Learning Days (AMLDD) 2019, Lausanne, Switzerland <ul style="list-style-type: none"> 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. <hr/>	10/2018 – 01/2019
Imperial College Data Science Society (ICDSS) <ul style="list-style-type: none"> Team Talent Development 	11/2016 – 09/2017

<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Honorary staff member Responsibilities: public relations, social media, event management 	
Student's Union of the Economics Department, University of Freiburg	10/2012 – 09/2016
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Mentor Responsibilities: Group supervision for first-semester undergraduate students 	

Awards and scholarships

Alan Turing Institute, Enrichment scheme	10/2018 – 09/2019
<ul style="list-style-type: none"> Top-up scholarship for visiting students Value: £ 5,000 pa. 	
EPSRC scholarship	10/2017 – 09/2021
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Stipend from the University to cover living costs and research Value: £ 14,553 pa. + research allowance 	
e-fellows.net scholarship	09/2014 – 02/2019
<ul style="list-style-type: none"> 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*)

Technical skills

Operating Systems:

Windows OS, Linux OS

Statistics & Machine Learning:

R (h2o, mlr), Python (PyTorch, scikit-learn), Biogeme, SPSS

Others:

QGIS, Microsoft Office, LaTeX, PHP, PostgreSQL, HTML, PostGIS, JavaScript, Git