

Leonard Hasenclever

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Nationality German

Research Interests

Bayesian statistics. Large scale machine learning. Deep learning.

Education

- 2014-present** **Oxford Warwick Statistics Programme (OxWaSP) Centre for Doctoral Training, University of Oxford – DPhil in Statistics**
2015-present: Research on Large Scale Bayesian Machine Learning supervised by Professor Yee Whye Teh
2014-2015: Research teaching in a wide range of statistics and machine learning topics and courses in high performance computing
- 2010-2014** **Jesus College, University of Cambridge**
BA (Hons) Mathematics with MMath
Part III Pass with Distinction, 89/100
1st class honours results throughout my degree
- 2002-2010** **Wilhelm-Ostwald-Gymnasium Leipzig**
German Abitur, Overall grade 1.0 (best possible grade), top 1% in my state

Scholarships and Awards

- 2014-2018** Full funding by the UK Engineering and Physical Sciences Research Council as part of the OxWaSP programme
- 2010-2015** Scholarship of Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation) - €3600 p.a. plus tuition fees in my final year.
- 2014** Wishart Prize for the student or students of the highest distinction in statistics in Part III of the Mathematical Tripos at Cambridge.
- 2014** R A Watchman Prize (Jesus College, Cambridge)
- 2012-2014** College Scholarship (Jesus College, Cambridge)
- 2011** College Foundation Exhibition (Jesus College, Cambridge)
- 2011** Bronowski Prize (Jesus College, Cambridge)
- 2010** Silver medal at the International Chemistry Olympiad in Tokyo

Teaching

- 2017** Class tutor for Data Mining and Machine Learning (master's level course)
- 2016** Tutor for one-to-one tutorials for Statistical Data Mining and Machine Learning
- 2016** Class tutor and teaching assistant for Statistical Data Mining and Machine Learning (master's level course)
- 2015** Teaching assistant for the OxWaSP module on Statistical Computing

Publications

Conference Papers

- [1] X Lu, V Perrone, L Hasenclever, Y. W. Teh, and S. J. Vollmer, “Relativistic Monte Carlo,” in *AISTATS*, 2017.

Journal Articles

- [1] W. Hordijk, L. Hasenclever, J. Gao, D. Mincheva, and J. Hein, “An investigation into irreducible autocatalytic sets and power law distributed catalysis,” *Natural Computing*, vol. 13, no. 3, pp. 287–296, 2014.
- [2] S. S. Pegler, K. N. Kowal, L. Q. Hasenclever, and M. G. Worster, “Lateral controls on grounding-line dynamics,” *Journal of Fluid Mechanics*, vol. 722, no. 5929, R1, 2013.

Preprints

- [1] L. Hasenclever, S. Webb, T. Lienart, S. Vollmer, B. Lakshminarayanan, C. Blundell, and Y. W. Teh, “Distributed Bayesian learning with stochastic natural-gradient expectation propagation and the posterior server,” ArXiv e-prints: 1512.09327, 2016.

Workshop Papers

- [1] L. Hasenclever, S. Webb, T. Lienart, S. Vollmer, B. Lakshminarayanan, C. Blundell, and Y. W. Teh, “Distributed Bayesian learning with stochastic natural-gradient expectation propagation and the posterior server,” in *Bayesian Deep Learning Workshop, NIPS 2016*, 2016.
- [2] —, “Distributed Bayesian learning with stochastic natural-gradient expectation propagation and the posterior server,” in *Advances in Approximate Bayesian Inference Workshop, NIPS 2016*, 2016.

Reviewing

2016 Reviewer for Neural Information Processing Systems 2016

Computational Skills

Julia, Python, R, C, some experience in MXNet and Tensorflow

Languages

German (native), English (fluent), French (basic)