ABOUT

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Wessel Bruinsma 💼

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LANGUAGES

dutch, native
english

INTERESTS

probabilistic modelling, Bayesian nonparametrics, approximate inference, signal processing

EDUCATION

18/01 – now	**PhD**	University of Cambridge

- Supervised by Dr Richard Turner

15/10 – 16/09	**MPhil (distinction, class rank 1)**	University of Cambridge

- Machine learning, speech, and language technology
- Thesis: The GGPCM, supervised by Dr Richard Turner

12/09 – 15/07	**Hons BSc (distinction, class rank 1)**	Delft University of Technology

- Electrical engineering with a specialisation in mathematics
- Thesis: Real-Time Wideband Spectrum Sensing

PROFESSIONAL HISTORY

16/09 – now	**Machine Learning Researcher**	Invenia Labs Limited, Cambridge

- Solving problems in the fields of machine learning, finance, electricity systems and markets, and complex systems

14/09 – 15/07	**Technical Specialist**	EEMCS Recruitment Days, Delft

- Design and implementation of solutions to scheduling problems

13/09 – 14/07	**Electrical Engineer**	TU Delft Solar Boat Team, Delft

- Design and analysis of a power distribution system
- Competed in DONG Solar Energy Challenge 2014
- Competed in Solar1 Monte Carlo Cup 2014

AWARDS

16/03	**UfD-Damen Bachelor Award (EUR 2000)**

GRANTS

2018 – 2021	**International Doctoral Scholarship (IDS) Grant**

INVITED TALKS

18/03	**Invenia Labs Internal Conference (InveniaCon 2)**

- Agreeing to Disagree (Aumann's Agreement Theorem)
- Multi-Output Time Series Modelling with Gaussian Processes

17/09	**Invenia Labs Internal Conference (InveniaCon)**

- Reasoning About the World (Cox's Theorem)
- Modelling Complex Phenomena in Electricity Markets

PUBLICATIONS

PREPRINTS

pdf Bruinsma, W.P., Turner, R.E. (2018). "Learning Causally-Generated Time Series."

pdf Requiema J.R., Tebbutt W.C., Bruinsma W.P., Turner, R.E. (2018). "The Gaussian Process Autoregressive Regression Model (GPAR)."

PEER-REVIEWED PUBLICATIONS

pdf Bosma, S., Bruinsma, W.P., Hes, R.P., Bentum, M.J., Lager, I.E. (2017). "Grating Lobe Prediction in 3D Array Antennas," in *Antennas and Propagation (EuCAP), 11th European Conference on*.

pdf Bruinsma, W.P., Hes, R.P., Bosma, S., Lager, I.E., Bentum, M.J. (2016). "Radiation Properties of Moving Constellations of (Nano) Satellites: A Complexity Study," in *Antennas and Propagation (EuCAP), 10th European Conference on*.

pdf Bentum, M.J., Lager, I.E., Bosma, S., Bruinsma, W.P., Hes, R.P. (2015). "Beamforming in Sparse, Random, 3D Array Antennas with Fluctuating Element Locations," in *Antennas and Propagation (EuCAP), 9th European Conference on*.