Steven Kleinegesse

PhD Student in Data Science

Interested in the intersection of machine-learning and Bayesian approaches to Data Science problems. Experience in theoretical and applied academic research in several domains.

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EDUCATION

PhD in Data ScienceUniversity of Edinburgh

09/2018 - Present

Edinburah. United Kinadom

Thesis

 Machine-Learning Approaches to Bayesian Experimental Design for Implicit Models

MScR in Data Science University of Edinburgh

09/2017 - 09/2018

Edinburgh, United Kingdom

Courses

- Machine-Learning and Pattern Recognition
- Probabilistic Modelling and Reasoning
- Machine-Learning Practical

MSci in Physics

Imperial College London

09/2013 - 06/2017

London, United Kingdom

Thesis

 Classification of Particles in High-Energy Collisions using Machine-Learning

WORK EXPERIENCE

Intern

Institute for Astronomy, University of Edinburgh

06/2015 – 08/2015

Edinburgh, United Kingdom

Achievements/Tasks

 Investigated the Missing Baryons Problem using an adaptive-mesh refinement code. Performed analysis of high-end computational simulations, both graphically and numerically.

Intern

University of Surrey

06/2014 - 08/2014

Guildford, United Kingdom

Achievements/Tasks

 Modelled strong gravitational lenses using a nonparametric software. Investigated cases of unusual mass distributions and compared them to data of real cases that were pro- ducing anomalous lensing.

Intern

Institute for Photonic Technologies

07/2012 - 08/2012

Jena, Germany

Achievements/Tasks

 Introduction to various research areas, including nanotechnology, cryogenics and semi- conductors. Focus was on measuring and testing semiconductor wafers for terahertz- imaging to be used in spacecrafts.

SKILLS



PUBLICATIONS

Efficient Bayesian Experimental Design for Implicit Models (2019) 🗗

- AISTATS conference paper.
- Authors: Kleinegesse, S. & Gutmann, M.
- Publisher: In Proceedings of the 22nd International Conference on Artificial Intelligence and Statistics (AISTATS 2019). Vol. 89, PMLR, Naha, Okinawa, Japan, pp. 476-485.

Recognizing emotions in video using multimodal DNN feature fusion (2018) 🗗

- ACL workshop paper.
- Authors: Williams, J., Kleinegesse, S., Comanescu, R., Radu, O.
- Publisher: Proceedings of Grand Challenge and Workshop on Human Multimodal Language (Challenge-HML), pp. 11–19.
 Association for Computational Linguistics (ACL).

TEACHING EXPERIENCE

Teaching Assistant (11/2019 – Present)

Course: Probabilistic Modelling and Reasoning (MSc Level)

Marker (10/2019 – 11/2019)

Course: Extreme Computing (MSc Level)

Tutor and Marker (01/2018 – 05/2018)

Course: Probabilistic Modelling and Reasoning (MSc Level)

VOLUNTEER ACTIVITIES

CDT in Data Science Student Rep (09/2017 – Present)

President of Kung Fu Society at ICL (09/2015 – 09/2017)

President of Physics Society at ICL (09/2014 – 09/2015)

LANGUAGES

German

English

Native or Bilingual Proficiency

Full Professional Proficiency

French

Elementary Proficiency

INTERESTS

Artificial Intelligence Astronomy Climbing

Scuba-Diving Dancing Boardgames