RYAN CHAN

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EXPERIENCE

The Alan Turing Institute (Research Engineering Team) September 2022 - Present
Research Software Engineer

- The Alan Turing Institute is the national institute for data science and artificial intelligence
- Applying state-of-the-art and novel data science techniques emerging from the Institute
- Collaborating with researchers and industry partners to develop and maintain high-quality, well-tested software for data science
- For information about the projects that I have contributed to, see rchan26.github.io

Cambridge Spark - Teaching Fellow March 2021–December 2021

- Developing course materials for students enrolled in Cambridge Spark's *Data Essentials* program providing an introduction to statistics and data analytics

University of Warwick - Teaching Assistant July 2020

- Developed an R course (*Basic R with pointers*) for Mathematics and Statistics students
- Course covered basic programming with R, data visualisation with ggplot2, report writing with R Markdown and building packages in R

EDUCATION

The Alan Turing Institute / University of Warwick September 2018 - September 2022
PhD in Statistics

- Thesis: *Monte Carlo methods for combining sample approximations of distributions*; Examined by Professor Nicolas Chopin (ENSAE Paris) and Dr. Krzysztof Łatuszyński (Warwick)
- University of Warwick has one of the top statistics research groups in the UK. PhD in partnership with The Office of National Statistics (ONS) and The Alan Turing Institute
- Worked on Bayesian analysis for Big Data and developing Monte Carlo methodology for unifying distributed analysis with Prof. Gareth Roberts, Dr. Murray Pollock and Prof. Petros Dellaportas
- Student representative of the 2018/19 doctoral cohort
- Publications:
  - Chan, R.S.Y., Johansen, A.M., Pollock, M., and Roberts, G.O. 2023. Divide-and-Conquer Fusion. *The Journal of Machine Learning Research*, 24(193):1-82.
  - Chan, R.S.Y., and Dai, H. 2020. Discussion of "Quasi-stationary Monte Carlo and the ScaLE algorithm" by Pollock, Fearnhead, Johanson and Roberts. *JRSS B*.

University of Leeds September 2014 - July 2018
MMath, BSc Mathematics - 1st Class Honours (87%)

- Focused on Bayesian statistics, statistical computing & algorithms, stochastic processes
- Good knowledge of statistics/machine learning models and algorithms: predictive modelling, deep learning, recommender systems, topic modelling
- Elected by the Mathematical Society to be treasurer and secretary for the 2017/2018 academic year

References available on request