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Biography

General information

I am a Senior Research Fellow in Machine Learning and the recipient of an ARC DECRA fellowship. I research algorithms in machine learning and build models for environmental and social good.

My main research interests currently include:

scaling up machine learning to large time series datasets

creating land-cover maps from series of high-resolution satellite images

modelling high-dimensional joint and conditional probabilities from categorical data

Grants

2019-2021: Discovery Project - Australian Research Council - \$315,000 (AUD)

2017-2020: Discovery Early Career Researcher Award - Australian Research Council \$329,000 (AUD)

2016-2018: Linkage Projects - Australian Research Council \$252,000 (AUD)

2016-2018: Research Interests of the US Air Force Office of Scientific Research \$80,000 (USD)

2017: Early Career Researcher Seed Grant - Monash Faculty of IT - \$5,000 (AUD)

2016: Early Career Researcher Seed Grant - Monash Faculty of IT - \$12,000 (AUD)

2015-2016: Research Interests of the US Air Force Office of Scientific Research \$40,000 (USD)

2015: Early Career Researcher Seed Grant - Monash Faculty of IT - \$7,500 (AUD)

2015: Invited Professor at ENSISA - 3,000 €

2014: France-Australia Science Innovation Collaboration Grant - 5,000 €

2013: Early Career Researcher Small Grant - Monash Faculty of IT - \$5,000 (AUD)

2009: Doctoral research grant - French Space Agency 121,000 €

Awards

I have been fortunate to receive the following awards:

2018: Best Research Paper awarded by the Society for Industrial and Applied Math (SIAM) International Conference on Data Mining.

2016: Winner of Victorian Young Achiever Award - Victoria University Research Impact

2016: IBM Faculty Award

2016: Monash Faculty of Information Technology Dean's Award for Excellence in Research Impact

2015: Monash Faculty of Information Technology Dean's Award for Excellence in Research by an Early Career Researcher

2015: Best Research Paper Honorable Mention awarded by the Society for Industrial and Applied Math (SIAM) International Conference on Data Mining. The SDM 2015 Awards Committee selected 4 papers from around 400.

2015: Best Paper Award from the program committee of the International Conference for Artificial Intelligence in Medicine

2014: Best Machine Learning PhD awarded by the French-speaking Machine Learning association "Extraction et Gestion des Connaissances" as the top PhD in Machine Learning for the period 2010-2013.

2013: Top Science PhD 2013 awarded by the University of Strasbourg for the best PhD of the year in Science. The

University of Strasbourg typically graduates 400 PhDs per year.

Some biography

I obtained my PhD in 2012 with the French Space Agency on the automatic analysis of satellite images, PhD for which I received "Best Science PhD" from the University of Strasbourg and "Best Machine Learning PhD" from the French Machine Learning Association. I then joined Professor Geoff Webb's team in the then Monash Centre for Data Science, and began developing new algorithms for scaling up standard statistical methods to large datasets. I obtained "tenure" in 2016.

Qualifications