Dayi (David) Li

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Education

2020-present	**PhD Candidate in Statistical Sciences, CANSSI Multidisciplinary Doctoral Trainee**, *Department of Statistical Sciences, The University of Toronto, Toronto, ON*. Supervisor: Gwen Eadie, Roberto Abraham, Patrick Brown
2018-2020	**Master of Science in Statistics, GPA 4.0/4.0**, *School of Mathematical and Statistical Sciences, Western University, London, ON*. Supervisors: A. Ian McLeod, Pauline Barmby
2014–2018	**Bachelor of Science, Honor Specializations in Financial Modelling, GPA 4.0/4.0**, *School of Mathematical and Statistical Sciences, Western University, London, ON*.

Research Work and Projects

2020	**D, Li**, P. Barmby, "Gibbs Point Process Model for Young Star Clusters in M33", Submitted to MNRAS
2020	**Master's Thesis** "Point Process Modelling of Stellar Objects in the M33 Galaxy", Supervisors: Angus Ian McLeod, Pauline Barmby
Winter-2018	**Advanced Data Analysis Project**, "Machine-Learned Classification of Astronomical Point Sources in the M31 Galaxy"; Evaluated the performance of various classification algorithms, such as neural networks, Gaussian process, among others, on differentiating point sources, for example, stars, star clusters, etc., in the M31 Galaxy
2018	**Honors Undergraduate Thesis**, "An Extension of Put-Call Symmetry on Pricing American Options under Heston Model using Simulation", Supervisor: Lars Stentoft. Assess the performance of simulation algorithm using the property of put-call symmetry in reducing the error of the estimation of American options

Coursework

Core Courses	Real Analysis I, Real Analysis II, Advanced Probability Theory, Statistical Inference, Statistical Computing
Supplementary Courses	Advanced Data Analysis, Spatial Statistics, Observational Astronomy, Ordinary Differential Equations, Partial Differential Equations

Teaching

Teaching Assistant:

Winter-2020	Statistical Sciences 2143 (Statistics for Engineers)
Fall-2019	Actuarial Sciences 2053 (Mathematics for Financial Analysis)
Fall-2019	Statistical Sciences 1024 (Introduction to Statistics)
Winter-2019	Statistical Sciences 3858 (Mathematical Statistics)
Winter-2019	Statistics Help Center

Fall-2018	Statistical Sciences 3657 (Intermediate Probability)
Fall-2018	Statistical Sciences 1024 (Introduction to Statistics)

Awards and Scholarships

2020	E.F. Burton and F. W. Burton Graduate Scholarship Award
2018-2020	Western Graduate Research Scholarship
2018	Western Gold Medalist in Financial Modelling
2016	Robert and Ruth Lumsden Scholarships In Science
2015	William Wyatt Scholarships
2015	Jane Plas International Student Award
2014	Western Continuing Scholarship

Technical Skills

Programming	R, MATLAB, C++, Python, Unix
Software	LaTeX, Anaconda, Jupyter
Computing	SHARCNET

Research Positions

2020	**Department of Statistical and Actuarial Sciences, Western University** Post-Graduate Researcher in Astrostatistics
2018-2020	**Department of Statistical and Actuarial Sciences, Western University** Graduate Research Assistant

Languages

English	Fluent
Mandarin	Native