

Weijia (Grace) Yin

CONTACT INFORMATION	+1 (778) 929-0150 grace.yin@ubc.ca https://github.com/graceyin06	
RESEARCH INTERESTS	Cronbach's Alpha, Bayesian Inference in MCMC, Optimal Transport in Statistics	
EDUCATION	University of British Columbia	September 2015 - May 2020 (Expected)
	Bachelor of Science, Honours in Statistics	
	◦ Relevant Coursework: Probability Theory, Stochastic Process, Real Analysis, Statistical Inference, Methods for Statistical Learning, Design and Analysis of Experiments, Relationships in Data	
RESEARCH EXPERIENCE	Bayesian Estimation for Cronbach's Alpha	July 2019 - March 2020
	Research Supervisor: Professor Bruno Zumbo and Professor Edward Kroc	
	◦ Conducted Simulation studies and tests in R to explore the deep understanding of Bayesian estimators for Cronbach's Alpha	
	Hardy Inequalities	May 2018 - December 2018
	Research Supervisor: Professor Nguyen LAM	
	◦ Calculated the exact remainder terms of some versions of Hardy-type Inequalities with Bessel Pairs and radial derivatives	
	Caffarelli-Kohn-Nirenberg Inequalities	May 2018 - December 2018
	Research Supervisor: Professor Nguyen LAM	
	◦ Used suitable quasiconformal mappings to study the sharp versions and the optimizers of Caffarelli-Kohn-Nirenberg Inequalities	
PUBLICATIONS	◦ N. T. Duy, N. Lam-Hoang, N. A. Triet, and W. Yin : <i>Improved Hardy inequalities with exact remainder terms</i> , submitted .	
	◦ N. T. Duy, P. Le-Long, and W. Yin : <i>Hardy inequalities and Caffarelli-Kohn-Nirenberg inequalities with radial derivative</i> , submitted . Mentored by Dr. Nguyen LAM.	
CONFERENCE TALKS	◦ <i>Improved Hardy Inequalities with Exact Remainder Terms</i> , 2018 Canadian Mathematical Society (CMS) Winter Meeting in Vancouver. (December 8th 2018)	
	◦ <i>Hardy Inequalities and Bessel Pairs</i> , BC Undergraduate Mathematics and Statistics Conference. (April 25th 2019)	
OTHER TALKS	◦ <i>Vine Copula in Statistical Modelling</i> , UBC Machine Learning Reading Group mentored by Alexandre Bouchard, with uheng Xu and Kevin Chern.(2019 Fall (Expected))	
	◦ <i>Calculus on Manifolds</i> , UBC Machine Learning Reading Group mentored by Trevor Campbell, with uheng Xu.(2019 August)	
	◦ <i>PAC-Bayes Bound of Neural Networks</i> , UBC Machine Learning Reading Group mentored by Benjamin Bloem-Reddy, with Matteo Lepur.(2019 June)	
PROFESSIONAL SERVICE	Journal of IEEE Transaction on Cybernetics	March 5th 2019

SELECTED COURSEWORK	<ul style="list-style-type: none"> ◦ Probability Theory (graduate) ◦ Stochastic Process (graduate) ◦ Statistical Inference (graduate) ◦ Real Analysis ◦ Methods for Statistical Learning ◦ Design and Analysis of Experiments ◦ Relationships in Data
RELEVANT SKILLS	Languages: English, Mandarin Programming: \LaTeX , Python, R, MATLAB, MySQL, Java,
EMPLOYMENT	Look4Tutor Institute, Vancouver, B.C. <div style="display: flex; justify-content: space-between;"> <div>University-Level MATH Tutor,</div> <div>September 2018 - Present</div> </div> <ul style="list-style-type: none"> ◦ Teach calculus, linear algebra and mathematical proof courses Chinese courses ◦ Support students with exam preparation to help them improve their grades
LAST UPDATED	August 20, 2019