

Weijia (Grace) Yin

CONTACT INFORMATION	+1 (778) 929-0150 grace.yin@ubc.ca https://github.com/graceyin06	
RESEARCH INTERESTS	Measurement Models, Bayesian Inference, Probabilistic Inference, Machine Learning	
EDUCATION	University of British Columbia	September 2015 - May 2020 (Expected) Bachelor of Science, Honours in Statistics
RESEARCH EXPERIENCE	Probabilistic Inference over Permutations	October 2019 - Present Research Supervisor: Professor Benjamin Bloem-Reddy
	Bayesian Estimation for Cronbach's Alpha	July 2019 -Present Research Supervisor: Professor Bruno Zumbo and Professor Edward Kroc <ul style="list-style-type: none">Conducted Simulation studies and tests in R to explore the deep understanding of Bayesian estimators for Cronbach's Alpha
	Hardy Inequalities	May 2018 - June 2018 Research Supervisor: Professor Nguyen LAM <ul style="list-style-type: none">Calculated the exact remainder terms of some versions of Hardy-type Inequalities with Bessel Pairs and radial derivatives
	Caffarelli-Kohn-Nirenberg Inequalities	July 2018 - December 2018 Research Supervisor: Professor Nguyen LAM <ul style="list-style-type: none">Used suitable quasiconformal mappings to study the sharp versions and the optimizers of Caffarelli-Kohn-Nirenberg Inequalities
PUBLICATIONS	<ul style="list-style-type: none">N. T. Duy, P. Le-Long, and W. Yin: <i>Hardy inequalities and Caffarelli-Kohn-Nirenberg inequalities with radial derivative</i>, Journal of Mathematical Inequalities, Accepted. Mentored by Dr. Nguyen LAM.N. T. Duy, N. Lam-Hoang, N. A. Triet, and W. Yin: <i>Improved Hardy inequalities with exact remainder terms</i>, submitted.	
CONFERENCE TALKS	<ul style="list-style-type: none">Improved Hardy Inequalities with Exact Remainder Terms, 2018 Canadian Mathematical Society (CMS) Winter Meeting in Vancouver. (December 8th 2018)Hardy Inequalities and Bessel Pairs, BC Undergraduate Mathematics and Statistics Conference (BC UMSC). (April 25th 2019)	
OTHER TALKS	<ul style="list-style-type: none">Vine Copula in Statistical Modelling, UBC Machine Learning Reading Group mentored by Alexandre Bouchard, with Zuheng Xu and Kevin Chern. (2019 Fall)PAC-Bayes Bound of Neural Networks, 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
RELEVANT SKILLS	Languages: English, Mandarin Programming: \LaTeX , Python, R, MATLAB, MySQL, Java	

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
EMPLOYMENT	<p>Look4Tutor Institute, Vancouver, B.C.</p> <p>University-Level MATH Tutor, September 2018 - September 2019</p> <ul style="list-style-type: none"> ◦ Teach calculus, linear algebra and mathematical proof courses ◦ Support students with exam preparation to help them improve their grades
OTHER EXPERIENCE	<p>UBC Sports Analytic Club September 2019 - Present</p>
LAST UPDATED	November 16, 2019