WEIJIA(GRACE) YIN

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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 (*Expected*)
Research Supervisor: **Prof. Bruno Zumbo & Prof. Edward Kroc**

- *Conducted Simulation studies and tests in R to explore the deep understanding of Bayesian estimators for Cronbach's Alpha*

Hardy Inequalities and Caffarelli-Kohn-Nirenberg Inequalities   May 2018 - December 2018
Research Supervisor: **Dr. Nguyen LAM**

- *Calculated the exact remainder terms of some versions of Hardy-type Inequalities with Bessel Pairs and radial derivatives*
- Used suitable quasiconformal mappings to study the sharp versions and the optimizers of Caffarelli-Kohn-Nirenberg Inequalities

JOURNAL PUBLICATIONS

N. T. Duy, N. Lam-Hoang, N. A. Triet, and **W. Yin**: *Improved Hardy inequalities with exact remainder terms*, **submitted**.

N. T. Duy, P. Le-Long, and **W. Yin**: *Hardy inequalities and Caffarelli-Kohn-Nirenberg inequalities with radial derivative*, **submitted**. Mentored by Dr. Nguyen LAM.

TECHNICAL SKILLS

R, Python, MATLAB, Java, LaTeX, MySQL, Excel, Adobe Premiere Pro, Adobe Audition

CONFERENCE PRESENTATIONS AND READING GROUP TALKS

W. Yin: Improved Hardy Inequalities with Exact Remainder Terms   December 8th 2018
2018 Canadian Mathematical Society (CMS) Winter Meeting in Vancouver

W. Yin & Zuheng Xu & Kevin Chern : Vine Copula   2019 Fall (*Expected*)
UBC Machine Learning Reading Group mentored by Alexandre Bouchard

W. Yin & Zuheng Xu: Calculus on Manifold   2019 Summer
UBC Machine Learning Reading Group mentored by Trevor Campbell

W. Yin & Matteo Lepur: PAC-Bayes Bound of Neural Networks   2019 Summer
UBC Machine Learning Reading Group mentored by Benjamin Bloem-Reddy

W. Yin: Hardy Inequalities and Bessel Pairs   April 25th 2019
BC Undergraduate Mathematics and Statistics Conference (BC UMSC)

ARTICLE REVIEW

Journal of IEEE Transaction on Cybernetics   March 5th 2019