

# WEIJIA YIN

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## EDUCATION

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**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

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**Caffarelli-Kohn-Nirenberg Inequalities**

July 2018 - December 2018

*Research Supervisor: Dr. Nguyen LAM*

*Used suitable quasiconformal mappings to study the sharp versions and the optimizers of Caffarelli-Kohn-Nirenberg Inequalities*

**Research Assistant: Hardy type Inequalities**

May 2018 - July 2018

*Research Supervisor: Dr. Nguyen LAM*

*Calculated the exact remainder terms of some versions of Hardy-type Inequalities with Bessel Pairs and radial derivatives*

## PUBLICATIONS

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N. T. Duy, N. Lam-Hoang, N. A. Triet, and **W. Yin**: *Improved Hardy inequalities with exact remainder terms*, submitted to **Mathematical Inequalities and Applications** on June 10th, 2018.

N. T. Duy, P. Le-Long, and **W. Yin**: *Hardy inequalities and Caffarelli-Kohn-Nirenberg inequalities with radial derivative*, submitted to **Journal of Mathematical Inequalities** on December 27th, 2018. Mentored by Dr. Nguyen LAM.

## CONFERENCE PRESENTATIONS

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**W. Yin: Improved Hardy Inequalities with Exact Remainder Terms**

December 8th 2018

2018 Canadian Mathematical Society (CMS) Winter Meeting in Vancouver

**W. Yin: Hardy Inequalities and Bessel Pairs**

April 25th 2019

BC Undergraduate Mathematics and Statistics Conference (BC UMSC)

## TECHNICAL SKILLS

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**Computer Languages**

R, Python, MATLAB, Java

**Software & Tools**

L<sup>A</sup>T<sub>E</sub>X, MySQL, Excel, Adobe Premiere Pro, Adobe Audition

## EMPLOYMENT EXPERIENCE

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**University-Level MATH Tutor**

September 2018 - Present

*Look4Tutor Institute, Vancouver, B.C.*

- Teach calculus, linear algebra, mathematical proof courses and high-level Chinese courses

**Data and Reporting Analyst**

May 2017 - August 2017

*Qingdao Jiahao Real Estate Co., Ltd, Qingdao, China*

- Conducted statistical analysis of real estate transaction data models in Qingdao in order to support the company strategy
- Participated in market survey and collected data to improve industry policy and market monitoring