

# Hongxiang Qiu

Department of Biostatistics  
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<http://students.washington.edu/qiuhx/>

## Education

### University of Washington

PhD, Biostatistics

2016–present

Dissertation advisor: Marco Carone, PhD and Alex Luedtke, PhD

### The Chinese University of Hong Kong

B.Sc., Mathematics; Minor in Statistics

2012–2016

Capstone project advisor: Raymond Honfu CHAN, PhD

## Research Experience

### Kaiser Permanente Washington Health Research Institute

2016–present

*Graduate Research Assistant*

PRimary care Opioid Use Disorders Treatment (PROUD) Trial

Advisor: Jennifer F. Bobb, PhD

### Shanghai Institute of Biological Sciences

Summer 2015

Advisor: Shuhua Xu, PhD

## Teaching Experience

### University of Washington

*Tutor*

Spring 2019

Advanced Theory of Statistical Inference

Instructors: Alex Luedtke, PhD and Marco Carone, PhD

### University of Washington

*Teaching Assistant*

Winter 2019

Applied Statistics and Experimental Design

Instructor: Brian Lerous, PhD

### University of Washington

*Grader*

Winter 2018

Advanced Theory of Statistical Inference

Instructor: Jon A. Wellner, PhD

## Publications

(† stands for equal contribution.)

### Under review

**Qiu H**, Luedtke A, Carone M (2020+). Universal sieve-based strategies for efficient estimation using machine learning tools. *arXiv*

### Peer reviewed methodology

**Qiu H**, Carone M, Sadikova E, Petukhova M, Kessler R, Luedtke A (2020). Optimal individualized decision rules using instrumental variable methods. *Journal of the American Statistical Association*, 1–18.

Bobb, J, **Qiu, H**, Matthews, A, McCormack J, Bradley K (2020). Addressing identification bias in the design and analysis of cluster-randomized pragmatic trials: a case study. *Trials* 21(1), 289.

**Qiu H**, Luedtke A, van der Laan M (2019). Contribution to discussion of “Entropy Learning for Dynamic Treatment Regimes” by Jiang B, Song R, Li J, Zeng D. *Statistica Sinica*, 29(4): 1666–1678.

Zhou Y<sup>†</sup>, **Qiu H**<sup>†</sup>, Xu S (2017). Modeling continuous admixture using admixture-induced linkage disequilibrium. *Scientific Reports*, 7, 1–10.

### Peer reviewed application

Fitts W, Tassiou NR, Cisse FA, Vogel A, Atakla HG, Sakadi F, **Qiu H**, Conde ML, Balde AT, Bah AK, Hamani ABD, Anand P, Patenaude B, Mateen F (2019). School Status and its Associations among Children with Epilepsy in the Republic of Guinea. *Epilepsy & Behavior*, 97, 275–281.

Jang M, Sakadi F, Tassiou NR, Abass CF, Grundy SJ, Woga A, Kenda BA, Lamine CM, Talibé BA, **Qiu H**, Cohen JM, Carone M, Mateen FJ (2018). Impact of Poorly Controlled Epilepsy in the Republic of Guinea. *Seizure*, 61, 71–77.

## Conference and symposium presentations

“Optimal individualized decision rules using instrumental variable methods.” **Qiu H**, Carone M, Sadikova E, Petukhova M, Kessler R, Luedtke A. 2020 ENAR Spring Meeting.

“Constructing asymptotically normal plug-in estimators with highly adaptive Lasso and data adaptive series.” **Qiu H**, Luedtke A & Carone M. 2019 WNAR/IMS/JR (Japanese Region) meeting.

## Reviewer for International Journals

- Journal of the American Statistical Association
- International Journal of Biostatistics
- Statistical Methods in Medical Research

## Awards and Fellowships

### University of Washington

Scholarship for 6th Seattle Symposium in Biostatistics  
2018 Donovan J. Thompson Award

October 2020  
October 2018

### Chinese University of Hong Kong

Dean's List, 2015–2016  
College Head's List, 2014–2015  
Department/Programme Scholarship, 2014–2015  
Undergraduate Mathematics Scheme  
Shaw College Global Exposure Award Scheme 2014–15  
Heung To Educational Fund Mathematics Scholarship  
Reaching Out Award  
1978 Mathematics Alumnus Li Sze-lim Scholarships  
College Head's List, 2013–2014  
Department/Programme Scholarship, 2013–2014  
CUHK Golden Jubilee Scholarship for Outgoing Exchange Student, 2014-2015  
Yasumoto International Exchange Scholarships  
Dean's List, 2013–2014  
Undergraduate Mathematics Scheme  
Dragon Crowd "SCHIESSER" Scheme  
College Head's List, 2012–2013  
Department/Programme Scholarship, 2012–2013  
Outstanding Essay Award, 2012–2013  
Dean's List, 2012–2013

July 2016  
January 2016  
January 2016  
November 2015  
April 2015  
April 2015  
April 2015  
January 2015  
January 2015  
January 2015  
September 2015  
July 2014  
July, 2014  
June 2014  
April 2014  
January 2014  
January 2014  
November 2013  
July 2013

## Software

**CAMer** R package for Continuous Admixture Modeling based on the result of iMAAPs.

## Languages and Skills

Programming:

- proficient: R
- familiar: Python, MATLAB

- basic: SAS, Stan, JAGS, C++, C

Operating systems: Windows, Unix

Other computer skills: Microsoft Office, Git, L<sup>A</sup>T<sub>E</sub>X, Markdown

Languages: English (fluent), Chinese Mandarin (native), Chinese Cantonese (basic)