

Hongxiang Qiu

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Education

University of Washington

PhD, Biostatistics

2016–present

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

The Chinese University of Hong Kong

B.S., 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

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.)

Methodology

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

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*.

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, 289. <https://doi.org/10.1186/s13063-020-4148-z>

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[†], **Qiu H**[†], & Xu S (2017). Modeling continuous admixture using admixture-induced linkage disequilibrium. *Scientific Reports*, 7, 1–10.

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: European Journal of Epilepsy*, 61, 71–77.

Conferences and symposiums

“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.

Software

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

Awards and Fellowships

University of Washington

2018 Donovan J. Thompson Award

October 2018

Chinese University of Hong Kong

Dean’s List, 2015–2016

July 2016

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

Languages and Skills

Programming:

- proficient: R
- familiar: Python, MATLAB, Stan, JAGS
- basic: SAS, C++, C

Operating systems: Windows, Unix

Other computer skills: Microsoft Office, Git, L^AT_EX, Markdown

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