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.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†, **Qiu H**†, 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	October 2020
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

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, LaTeX, Markdown

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