

CURRICULUM VITAE

Tianchen Qian

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RESEARCH INTERESTS

Causal inference, clinical trial designs, computerizable estimation, semiparametric theory

EDUCATION AND TRAINING

- 2017 **Johns Hopkins University**, Baltimore, MD
Ph.D. in Biostatistics
Thesis title: *Semiparametric Estimation in Observational Studies and Randomized Trials*
Advisors: Constantine Frangakis and Michael Rosenblum
- 2012 **Tsinghua University**, Beijing
B.S. in Mathematics
Thesis title: *Statistical Methods for Algae Bloom Analysis and Prediction*
Advisor: Kai-Fun Yu

PUBLICATIONS AND MANUSCRIPTS

PUBLISHED

1. Rosenblum M., **Qian T.**, Du Y., and Qiu H. (2016) Multiple Testing Procedures for Adaptive Enrichment Designs: Combining Group Sequential and Reallocation Approaches. *Biostatistics*, 17(4), 650–662. [link](#)
2. Frangakis C., **Qian T.**, Wu Z., and Diaz I. (2015) Rejoinder to Discussions on: Deductive Derivation and Turing-computerization of Semiparametric Efficient Estimation. *Biometrics*, 71(4), 881–883. [link](#)
3. Frangakis C., **Qian T.**, Wu Z., and Diaz I. (2015) Deductive Derivation and Turing-computerization of Semiparametric Efficient Estimation. *Biometrics (with discussion)*, 71(4), 867–874. [link](#)
4. Sohn J., Duran R., Zhao Y., Fleckenstein F., Chapiro J., Sahu S., Scherthaner R., **Qian T.**, Lee H., Zhao L., Hamilton J., Frangakis C., Lin M., Salem R., Geschwind J. (2016) Validation of the Hong Kong Liver Cancer Staging System in Determining Prognosis of the North American Patients Following Intra-arterial Therapy. To appear in *Clinical Gastroenterology and Hepatology*. [link](#)

UNDER REVIEW

5. **Qian T.**, Colantuoni E., Fisher A., and Rosenblum M. (2016+) Sensitivity of Trial Performance to Delayed Outcomes, Accrual Rates, and Prognostic Variables Based on a Simulated Randomized Trial with

Adaptive Enrichment. Under review at *Contemporary Clinical Trials Communications* (revision requested January 3rd, 2017). [link](#)

6. * Han F., and **Qian T.** (2016+) Asymptotics of Asymmetric Weighted U -Statistics: Central Limit Theorem and Bootstrap under Data Heterogeneity. Under review at *Annals of Statistics*. [link](#) (* alphabetical order of authorship)

IN PREPARATION

7. **Qian T.**, Frangakis C., and Yiannoutsos C. Deductive Semiparametric Estimation in Double-Sampling Designs.
8. **Qian T.**, Rosenblum M., and Qiu H. Improving Power in Group Sequential, Randomized Trials by Adjusting for Prognostic Baseline Variables and Short-Term Outcomes. [link](#)

PRESENTATIONS

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| 2017 | Robust Methods for Improving Power in Group Sequential Randomized Trial Designs, by Leveraging Prognostic Baseline Variables and Shortterm Outcomes. <i>ENAR</i> , Washington, DC |
| 2016 | Sensitivity of Trial Performance to Delayed Outcomes, Accrual Rates, and Prognostic Variables based on a Simulated Randomized Trial with Adaptive Enrichment. <i>Clinical Trials on Alzheimer's Disease</i> , San Diego, CA |
| 2015 | Impact of Delayed Outcomes, Accrual Rates, and Prognostic Variables on a Simulated Randomized Trial with Adaptive Enrichment. <i>Joint Statistical Meetings</i> , Seattle, WA |
| 2015 | Impact of Delayed Outcomes and Prognostic Variables on Simulated Randomized Trial Design with Adaptive Enrichment. <i>Atlantic Causal Inference Conference</i> , Philadelphia, PA |
| 2015 | Impact of Delayed Outcomes and Prognostic Variables on Simulated Randomized Trial Design with Adaptive Enrichment. <i>FDA Office of Regulatory Science and Innovation (ORSI) Science Symposium</i> , White Oak, MD |
| 2015 | Impact of Delayed Outcomes and Prognostic Variables on Simulated Randomized Trial Design with Adaptive Enrichment. <i>Johns Hopkins University</i> , Baltimore, MD |
| 2014 | Causal Inference on the Difference of the Restricted Mean Lifetime between Two Groups. <i>Johns Hopkins University</i> , Baltimore, MD |

AWARDS AND HONORS

1. Phi Beta Kappa Honor Society, 2017
2. Delta Omega Honor Society for Public Health, 2017
3. Margaret Merrell Award for Excellence in Research, Johns Hopkins University, 2017
4. United States Food and Drug Administration (FDA) and Johns Hopkins Center of Excellence in Regulatory Science and Innovation (CERSI) Scholar, 2016
5. United States Food and Drug Administration (FDA) and Johns Hopkins Center of Excellence in Regulatory Science and Innovation (CERSI) Scholar, 2015

6. Tsinghua University Academic Award (Dean's List equivalent), 2011
7. Fang-xiong Zhao Award for Excellence in Mathematical Programming, 2011
8. Tsinghua University Academic Award (Dean's List equivalent), 2010

TEACHING EXPERIENCE

Invited Lecturer

- 2015 *Two Phase Design and Efficient Influence Function*. 140.734 (Statistical Theory IV). Department of Biostatistics, Johns Hopkins University.
- 2014 *Empirical Distribution Function, Statistical Functionals, and Influence Function*. 140.772 (Advanced Statistical Theory). Department of Biostatistics, Johns Hopkins University.

Teaching Assistant

- 2017 140.624 (Statistical Methods in Public Health IV). Johns Hopkins Bloomberg School of Public Health.
- 2017 140.623 (Statistical Methods in Public Health III). Johns Hopkins Bloomberg School of Public Health.
- 2016 140.622 (Statistical Methods in Public Health II). Johns Hopkins Bloomberg School of Public Health.
- 2016 140.621 (Statistical Methods in Public Health I). Johns Hopkins Bloomberg School of Public Health.
- 2016 140.664 (Causal Inference in Medicine and Public Health). Johns Hopkins Bloomberg School of Public Health.
- 2015 140.741 (Survival Analysis II). Johns Hopkins Bloomberg School of Public Health.
- 2015 140.641 (Survival Analysis I). Johns Hopkins Bloomberg School of Public Health.
- 2015 140.734 (Statistical Theory IV). Johns Hopkins Bloomberg School of Public Health.
- 2015 140.733 (Statistical Theory III). Johns Hopkins Bloomberg School of Public Health.
- 2014 140.772 (Advanced Statistical Theory II). Johns Hopkins Bloomberg School of Public Health.
- 2014 140.771 (Advanced Statistical Theory I). Johns Hopkins Bloomberg School of Public Health.
- 2014 550.621 (Probability Theory II). Johns Hopkins University.
- 2013 550.620 (Probability Theory I). Johns Hopkins University.

SKILLS

- Statistical Packages: R, STATA, Mathematica, Matlab

- Coding: Python, C++

PROFESSIONAL MEMBERSHIPS

- American Statistical Association

HOBBIES:

Guitar, classical music, tennis, soccer