Xinyuan Dong

Contact Information
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Address
1959 NE Pacific Street F-600
Seattle, WA 98115

Education

University of Washington, Seattle, WA *Expected 2020*
Ph.D: Biostatistics
Research Interests: Personalized Medicine, Statistical Genetics

Bryn Mawr College, Bryn Mawr, PA 09/11 - 05/15
B.A. in Mathematics (Honors); Magna Cum Laude

Research Experience

Fred Hutchinson Cancer Research Center

- **Outcome Weighted Learning for Precision Medicine** 03/18 to present
  Applied Difference of Convex(DC) algorithm to derive the optimal individualized treatment rule.
  Supervisor: Yingqi Zhao, Ph.D
- **Meta-analysis in Set-based Association Analysis** 09/17 to present
  Conducted fixed effect and variance component testings using summary statistics of the individual-level genetic data.
  Supervisors: Li Hsu, Ph.D & Yuru Su, Ph.D

University of Washington, Department of Biostatistics

- **Racial Classification Using Genetic Data** 03/18 to present
  Classified the population of different races into Genetic Analysis Groups using self-identified ethnic information and genetic data.
  Supervisor: David Levine, Ph.D

Publications

Manuscripts in Preparation

1. **Xinyuan Dong**, Yingqi Zhao. **Estimating Individualized Treatment Rules to Optimize Incremental Cost Effective Ratios for Censored Survival Time and Costs** .
2. **Xinyuan Dong**, Yu-Ru Su, Stephhanie Bien, Richard Barfield, Li Hsu. **Summary Statistics-based Set-Based Association Analysis**.
3. Yingqi Zhao, **Xinyuan Dong**, Yingye Zheng. **Estimating Time-invariant Individualized Surveillance Rules to Optimize Stablized Composite Outcomes** .

Published

1. YR Su, C Di, S Bien, L Huang, **X Dong**, et al. **A Mixed-Effects Model for Powerful Association Tests in Integrative Functional Genomics.** *The American Journal of Human Genetics*
2. J Delaney, N Robin, B Whitney , F Altice, **X Dong**, et al. **Brief Report: Reduced Use of Illicit Substances, Even Without Abstinence, Is Associated With Improved Depressive Symptoms Among People Living With HIV.** *Journal of Acquired Immune Deficiency Syndromes*

Work Experience

Teaching Assistant 09/16 to 12/16
University of Washington, Department of Biostatistics

BIOST 514 Biostatistics I
Supervisor: Kenneth Rice

Skills R, Stata, Shell Scripting