

# Fei Xue

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## Employment

2019–current **Postdoc Researcher**, *The University of Pennsylvania*, USA.

## Education

2014–2019 **Ph.D. in Statistics**, *The University of Illinois at Urbana–Champaign*, USA.  
Advisor: Annie Qu

2010–2014 **B.S. in Mathematics and Applied Mathematics**, *Fudan University*, China.

## Research Interests

Data integration, missing data, mediation analysis, individualized modeling, precision medicine, high dimensional data, variable selection, statistical genetics, and survival analysis.

## Publications

1. **Fei Xue**, Annie Qu (2020). Integrating multi-source block-wise missing data in model selection. *Journal of the American Statistical Association*, accepted.
2. **Fei Xue**, Yanqing Zhang, Wenzhuo Zhou, Haoda Fu, Annie Qu. Multicategory angle-based learning for estimating optimal dynamic treatment regimes with censored data. *Journal of the American Statistical Association*, invited revision.
3. Xiwei Tang, **Fei Xue**, Annie Qu (2020). Individualized multi-directional variable selection. *Journal of the American Statistical Association*, accepted.
4. **Fei Xue**, Annie Qu. Semi-standard partial covariance variable selection when irrepresentable conditions fail. *Statistica Sinica*, invited revision.
5. **Fei Xue**, Hongzhe Li. An empirical Bayes regression for multi-tissue eQTL data analysis. In preparation.
6. **Fei Xue**, Rong Ma, Hongzhe Li. Semi-supervised statistical inference for high-dimensional linear regression with blockwise missing. In preparation.
7. **Fei Xue**, Xiwei Tang, Grace Kim, Allison Aiello, Karestan Koenen, Sandro Galea, Derek Wildman, Monica Uddin, and Annie Qu. Heterogeneous mediation analysis for causal inference. In preparation.
8. Simona Buetti, **Fei Xue**, Qiawen Liu, Juyoen Hur, Gavin Jun Peng Ng, and Wendy Heller (2020). Perceived control in the lab and in daily life impact emotion-induced temporal distortions. *Timing & Time Perception*, accepted.

9. Grace S Kim, Alicia Smith, **Fei Xue**, Vasiliki Michopoulos, Adriana Lori, Don L. Armstrong, Allison E. Aiello, Karestan C. Koenen, Sandro Galea, Derek E. Wildman, and Monica Uddin (2019). Methyloomic profiles reveal sex-specific shifts in leukocyte composition associated with post-traumatic stress disorder. *Brain, Behavior, and Immunity*, 81: 280–291.
10. Agaz Wani, Allison Aiello, Grace S Kim, **Fei Xue**, Andrew Ratanatharathorn, Annie Qu, Karestan Koenen, Sandro Galea, Derek Wildman, Monica Uddin. The impact of psychopathology, social adversity and stress-relevant DNAm on prospective risk for post-traumatic stress: A machine learning approach. *Journal of Affective Disorders*, submitted.

## Awards

- 2019 **ICSA New Researcher Award**, *International Chinese Statistical Association*, USA.
- 2019 **IMS Hannan Graduate Student Travel Award**, *Institute of Mathematical Statistics*, USA.
- 2018 **ASA Student Paper Award**, *Statistical Learning and Data Science Section of the American Statistical Association*, USA.
- 2018 **Horace W. Norton Prize for Outstanding Thesis Research Finalist**, *Department of Statistics, UIUC*, USA.
- 2018 **The Third Place in Student Poster Competition**, *The Fourth International Workshop on the Statistical Analyses of Multi-Outcome Data*, USA.
- 2013 **Meritorious Winner**, *Mathematical Contest in Modeling*, USA.
- 2010 **Bronze medal**, *Chinese Mathematical Olympiad*, China.

## Talks

- Aug. 2020 **JSM, Philadelphia, PA, USA.**  
Multicategory angle-based learning for estimating optimal dynamic treatment regimes with censored data
- Dec. 2019 **Fudan University, Shanghai, China.**  
Integrating multi-source block-wise missing data in model selection
- Dec. 2019 **East China Normal University, Shanghai, China.**  
Integrating multi-source block-wise missing data in model selection
- Dec. 2019 **The 11th ICSA International Conference, Hangzhou, China.**  
Integrating multi-source block-wise missing data in model selection
- Nov. 2019 **Workshop on LEADERS, New Haven, CT, USA.**  
Heterogeneous mediator selection for high-dimensional data
- July 2019 **JSM, Denver, CO, USA.**  
Integrating multi-source block-wise missing data in model selection
- June 2019 **The ICSA Applied Statistics Symposium, Raleigh, NC, USA.**  
Integrating multi-source block-wise missing data in model selection
- Aug. 2018 **JSM, Vancouver, Canada.**  
Variable selection for highly correlated predictors

- Nov. 2018 **Borher Workshop, Champaign, IL, USA.**  
Integrating multi-source block-wise missing data in model selection
- Nov. 2017 **Borher Workshop, Champaign, IL, USA.**  
Variable selection for highly correlated predictors
- Oct. 2017 **Yunnan University, Kunming, China.**  
Variable selection for highly correlated predictors

## Referee Experience

Journal of the American Statistical Association (2)  
Journal of the Royal Statistical Society: Series B (1)  
Electronic Journal of Statistics (2)  
Journal of Nonparametric Statistics (1)  
Biometrics (1)

## Teaching Experience

### Instructor at UIUC

- Fall 2016 Stat 200: **Statistical Analysis**  
[Graduate Teaching Assistant at UIUC](#)
- Spring 2017 Stat 427: **Statistical Consulting**
- Summer 2016 Stat 448: **Advanced Data Analysis**
- Spring 2016 Stat 511: **Mathematical Statistics II**
- Fall 2015 Stat 510: **Mathematical Statistics I**
- Summer 2015 Stat 410: **Statistics and Probability II**
- Spring 2015 Stat 510: **Mathematical Statistics I**
- Fall 2014 Stat 410: **Statistics and Probability II**

## Service

- July 2017 **Session Chair of Machine Learning Applications.**  
JSM, Baltimore, MD, USA
- June 2017 **Session Chair of Prediction and inference for high-dimensional data and non-parametric models.**  
The ICSA Applied Statistics Symposium, Chicago, IL, USA