

## David Mingfei Liu

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<b>Education</b>	<b>Northeastern University</b> (2020 - Present) Ph.D. Student, Computer Science Department and Network Science Institute Advisor: Professor Tina Eliassi-Rad Focus areas: Fairness in Machine Learning, Computational Social Science, and Computational Reproducibility. <b>Princeton University</b> (2018) B.S.E in Computer Science with Certificate in Statistics and Machine Learning Graduated <i>summa cum laude</i> Undergraduate Advisor: Professor Matthew J. Salganik
<b>Publications</b>	<b>David Liu</b> , Zohair Shafi, William Fleisher, Tina Eliassi-Rad, and Scott Alfeld. 2021. RAWLSNET: Altering Bayesian Networks to Encode Rawlsian Fair Equality of Opportunity. In <i>Proceedings of the 2021 AAAI/ACM Conference on AI, Ethics, and Society (AIES '21)</i> . <a href="#">[pdf]</a>  <b>David Liu</b> and Matthew J. Salganik. Successes and struggles with computational reproducibility: Lessons from the fragile families challenge. <i>Socius</i> , 5:1–21, 2019. <a href="#">[pdf]</a>
<b>Posters</b>	<b>David Liu</b> . Uncovering the Evolution of Mukbang Videos on Youtube. <i>The 7<sup>th</sup> International Conference on Computational Social Science (IC2S2)</i> , Virtual Conference, July 2021. <b>David Liu</b> . Uncovering the Evolution of Mukbang Videos on Youtube. <i>Networks 2021: A Joint Sunbelt and NetSci Conference</i> , Virtual Conference, July 2021.
<b>Industry Experience</b>	<b>Bloomberg LP</b> - <i>Software Engineer</i> Jul 2018 - Sep 2020 Implementing scalable, reliable C++ services on a derivatives market data team with a focus on message queueing, automated testing, and interface design. <b>The New York Times</b> - <i>Software Intern</i> Summer 2017 Architected backend supporting the renovation of the “My Account” page of the New York Times, increasing site usability. Renovated site launched in October 2017. Initiated side project with the NYT Data Science team, improving visualization of readership data from embedded static files to native, interactive Google Charts.
<b>Awards and Honors</b>	2021 NSF Graduate Research Fellowship 2018 Sigma Xi Nomination
<b>Activities</b>	2020 ML Reproducibility Challenge, participant. 2017 Undergraduate Peer Academic Advisor, Princeton University 2016 Undergraduate Computer Science Lab Teaching Assistant, Princeton University

## Invited Talks

- 2021 MD4SG Working Group on Discrimination in Algorithmic Decision-making, Invited Speaker. Online.
- 2019 RabbitMQ Summit, Keynote Speaker. *Growing a farm of rabbits to scale financial applications*. London, UK.
- 2016 Fragile Families Challenge Scientific Workshop, Invited Speaker. Princeton, NJ.