

David Mingfei Liu

Contact Information	177 Huntington Ave. Boston, MA 02115 E-mail: liu.davi@northeastern.edu Mobile: (571)-528-3466 Personal Website: dliu18.github.io
Education	Northeastern University (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. Princeton University (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
Publications	David Liu , 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> . [pdf] David Liu and Matthew J. Salganik. Successes and struggles with computational reproducibility: Lessons from the fragile families challenge. <i>Socius</i> , 5:1–21, 2019. [pdf]
Non-Peer Reviewed Essays	David Liu and Sarah Sakha. Power: The exclusionary costs of large-scale computing. In <i>A New AI Lexicon</i> by The AI Now Institute. [link]
Posters	David Liu . Uncovering the Evolution of Mukbang Videos on Youtube. <i>The 7th International Conference on Computational Social Science (IC2S2)</i> , Virtual Conference, July 2021. David Liu . Uncovering the Evolution of Mukbang Videos on Youtube. <i>Networks 2021: A Joint Sunbelt and NetSci Conference</i> , Virtual Conference, July 2021.
Industry Experience	Bloomberg LP - <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. The New York Times - <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.
Awards and Honors	2021 NSF Graduate Research Fellowship 2018 Sigma Xi Nomination

Activities	2021	Subtle CSCW Traits: Tensions around Identity Formation and Online Activism in the Asian Diaspora, workshop participant.
	2020	ML Reproducibility Challenge, participant.
Invited Talks	2021	MD4SG Working Group on Discrimination in Algorithmic Decision-making, Invited Speaker. Online.
	2019	RabbitMQ Summit, Keynote Speaker. <i>Growing a farm of rabbits to scale financial applications</i> . London, UK.
	2016	Fragile Families Challenge Scientific Workshop, Invited Speaker. Princeton, NJ.
Academic Service	AIES '21	Student Volunteer
	NeurIPS '21	Student Volunteer