Serina Chang

serinac@cs.stanford.edu • https://serinachang5.github.io Last updated: August 30, 2024 Most Recent CV Here

ACADEMIC POSITIONS	University of California, Berkeley , Berkeley, CA Assistant Professor, Department of Electrical Engineering and Computer Science (50%), UCSF Joint Program in Computational Precision Health (50%)	ing July 2025 UC Berkeley
	Microsoft Research, New York, NY	2024-2025
	Postdoctoral Researcher, Computational Social Science group	
EDUCATION	Stanford University, Stanford, CA Ph.D., Computer Science Advisors: Jure Leskovec, Johan Ugander	2019-2024
	Thesis committee: Dan Jurafsky, Eric Horvitz, Ran Abramitzky	
	Columbia University , New York, NY B.A., Computer Science (major), Sociology (concentration), <i>magna cum laude Advisor</i> : Kathleen McKeown	2015-2019
HONORS	Rising Stars in Data Science , University of Chicago and University of California San Diego	2023
	EECS Rising Stars, Georgia Institute of Technology	2023
	Future Faculty Symposium Scholar, Cornell University	2023
	PhD Fellowship, Computational Social Science, Meta	2022
	Best Paper Award, KDD 2021 (Applied Data Science Track)	2021
	Graduate Research Fellowship, National Science Foundation	2019
	The Finch Family Fellowship, Stanford University, School of Engineering	2019
	Outstanding Undergraduate Researcher Award, Computing Research Association	2019
	Phi Beta Kappa, Columbia University	2019
	Theodore R. Bashkow Award, Columbia University, Computer Science	2019
	Academic Excellence Award, Columbia University, Computer Science	2019
	King's Crown Leadership Award, Innovation and Enhancement, Columbia University	2018
	Dean's List (all semesters), Columbia University	2015-2019

PAPERS

[16] LLMs generate structurally realistic social networks but overestimate political homophily

Serina Chang*, Alicja Chaszczewicz*[†], Emma Wang[†], Maya Josifovska[†], Emma Pierson, and Jure Leskovec

Presented at IC²S² 2024 as **Plenary Talk** (2.8% of submissions)

[15] Learning production functions for supply chains with graph neural networks

Serina Chang, Zhiyin Lin[†], Benjamin Yan[†], Swapnil Bembde, Qi Xiu, Chi Heem Wong, Yu Qin, Frank Kloster, Xi Luo, Raj Palleti, and Jure Leskovec

Under review

Also presented at Stanford Graph Learning Workshop 2023 (invited talk); Stanford Causal Science Conference 2023 (oral)

[14] Artificial Intelligence for Infectious Disease Epidemiology

Moritz U.G. Kraemer*, Joseph L.-H. Tsui*, **Serina Chang***, Spyros Lytras, Samantha Vanderslott, Sumali Bajaj, Elizaveta Semenova, Mengyan Zhang, H. Juliette T. Unwin, Mark P. Khurana, Jacob Liam Curran-Sebastian, Neil Scheidwasser, Oliver J. Watson, Cathal Mills, Abhishek Dasgupta, Luca Ferretti, Samuel V. Scarpino, Etien Koua, Oliver Morgan, Houriiyah Tegally, Ulrich Paquet, Serge Belongie, Christophe Fraser, Neil M. Ferguson, Edward C. Holmes, Eric J. Topol, David A. Duchêne, Tanja Stadler, Patricia Kingori, Michael J. Parker, Francesca Dominici, Nigel Shadbolt, Marc A. Suchard, Oliver Ratmann, Seth Flaxman, Manuel G. Rodriguez, Bernhard Schölkopf, Christl A. Donnelly, Oliver G. Pybus, Simon Cauchemez, and Samir Bhatt

Under review

^{*}indicates co-first authorship. †indicates a student I mentored.

[13] Measuring vaccination coverage and concerns of vaccine holdouts from web search logs

Serina Chang, Adam Fourney, and Eric Horvitz

Nature Communications 2024

Also presented at KDD 2023 Workshop on Epidemiology Meets Data Mining and Knowledge Discovery (oral); KDD 2023 Workshop on Data Science for Social Good (oral); IC²S² 2024 (oral)

[12] Inferring dynamic networks from marginals with iterative proportional fitting

Serina Chang*, Frederic Koehler*, Zhaonan Qu*, Jure Leskovec, and Johan Ugander ICML 2024

Also presented at Learning on Graphs 2023

[11] Estimating geographic spillover effects of COVID-19 policies from large-scale mobility networks

Serina Chang, Damir Vrabac $^{\dagger},$ Jure Leskovec, and Johan Ugander

AAAI 2023

Also presented at KDD 2022 Workshop on Data-driven Humanitarian Mapping and Policymaking (oral); IC^2S^2 2022

[10] Computational analysis of 140 years of US political speeches reveals more positive but increasingly polarized framing of immigration

Dallas Card, **Serina Chang**, Chris Becker, Julia Mendelsohn, Rob Voigt, Leah Boustan, Ran Abramitzky, and Dan Jurafsky

PNAS 2022

Also presented at Conference on New Directions in Analyzing Text as Data (TADA) 2021 (oral)

[9] To recommend or not? A model-based comparison of item-matching processes

Serina Chang and Johan Ugander

ICWSM 2022 (oral)

Also presented at IC²S² 2021 (oral)

[8] Data-driven real-time strategic placement of mobile vaccine distribution sites

Zakaria Mehrab, Mandy Wilson, **Serina Chang**, Galen Harrison, Bryan L. Lewis, Alex Tellionis, Justin Crowe, Dennis Kim, Scott Spillman, Kate Peters, Jure Leskovec, and Madhav Marathe IAAI 2022

[7] Supporting COVID-19 policy response with large-scale mobility-based modeling

Serina Chang, Mandy Wilson, Bryan Lewis, Zakaria Mehrab, Komal K. Dudakiya, Emma Pierson, Pang Wei Koh, Jaline Gerardin, Beth Redbird, David Grusky, Madhav Marathe, and Jure Leskovec KDD 2021 (oral)

Best Paper Award, Applied Data Science Track (1 out of 705 submissions)

[6] Mobility network models of COVID-19 explain inequities and inform reopening

Serina Chang*, Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, David Grusky, and Jure Leskovec

Nature 2021

Also presented at Networks 2021 (oral); NeurIPS 2020 COVID-19 Symposium (invited talk); NeurIPS 2020 Machine Learning for Health Workshop

Coverage in 650+ news outlets, including *The New York Times* and *The Washington Post*; ranked as #3 most online impact among 901 similar-age papers published by *Nature* (metrics)

[5] Epidemic dynamics in inhomogeneous populations and the role of superspreaders

Kyle Kawagoe*, Mark Rychnovsky*, **Serina Chang**, Greg Huber, Lucy M. Li, Jonathan Miller, Reuven Pnini, Boris Veytsman, and David Yllanes

Physical Review Research 2021

[4] The socioeconomic mobility gap: disparities in the COVID-19 pandemic

Maya Josifovska[†], **Serina Chang**, and Jure Leskovec

Presented at IC²S² 2021

[3] Automatically inferring gender associations from language

Serina Chang and Kathleen McKeown

EMNLP 2019 (oral, short paper)

[2] Detecting gang-involved escalation on social media using context

Serina Chang, Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William Frey, Chris Kedzie, and Kathleen McKeown EMNLP 2018 (oral, long paper)

[1] Crowd-sourced iterative annotation for narrative summarization corpora

Jessica Ouyang, **Serina Chang**, and Kathleen McKeown EACL 2017 (oral, short paper)

INVITED INVITE			
Cornell Tech, Urban Data (INFO 5430) Public Health Insight Podicas Oxford, Networks Seminar Oxford, Networks Seminar Oxford, Big Data Methods for Behavioral, Social, and Population Health Research (EPI 270) 2024 CMU School of Computer Science, Machine Learning Department 2024 Berkeley, EECS Department & Computational Precision Health University of Illinois Urbana-Champaign, Department of Computer Science AAAIT24 Workshop on Graphs and More Complex Structures for Learning and Reasoning University of Washington, Paul G. Allen School of Computer Science & Engineering 2024 University of Washington, Paul G. Allen School of Computer Science & Engineering 2024 University of Washington, Paul G. Allen School of Computer Science & Engineering 2024 Microsoft Research NVC, Computational Social Science 2024 Columbia Business School, Decision, Risk, and Operations Division 2024 Cornell, Department of Computer Science & Information Science 2023 Johns Hopkins, Department of Computer Science 2023 MYU Stem School of Business, Department of Technology, Operations, and Statistics 2023 INVI Stem School of Business, Department of Technology, Operations, and Statistics 2023 Learning on Graphs Conference, Stanford Meetup 2023 NVU Stem School of Business, Department of Technology, Operations, and Statistics 2023 Cornell Tech, Applied Data Science: Decision-Making Beyond Prediction (ORIE 5355) 2023 Stanford, Graph Learning Workshop 2023 Columbia, Analysis of Networks and Crowds (COMS 6998) 2023 Cornell Tech, Data Science For Social Change (CS 6382) NFF Predictive Intelligence for Pandemic Prevention (PIPP), PandEval Research Team 2023 NH National COVID Cohort Collaborative (N3C), Machine Learning Seminar 2023 Stanford, Algorithmic Faimess Seminar 2023 Stanford, Introduction to Computational Social Science (MS&E 231) 2023 Stanford, Introduction to Computational Social Science (MS&E 231) 2024 Cornell Tech, Urban Data (INFO 5430) 2025 Stanford, Introduction to Computational Social Science (MS&E 231) 2026 2027 2027 2028 2028 2028 2029 2030		Berkeley, Computational Precision Health Doctoral Seminar	2024 (upcoming)
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			2020
Columbia, Emerging Scholars Program (COMS 1404) 2018		Columbia, NLP Seminar	2019
		Columbia, Emerging Scholars Program (COMS 1404)	2018

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WORK AI Advisor, United Nations Development Programme (UNDP) EXPERIENCE

2024-present

	eveloped graph machine learning methods to detect user intents from search logs and derive insights for public health. So hang, Fourney, and Horvitz, "Measuring vaccination coverage and concerns of vaccine holdouts from web search logs", <i>Nature ommunications</i> (2024).	
	 Software Engineering Intern, Google, Geo Assistant Built a new, user-facing feature for Google Search and Assistant Implemented backend to parse queries in Search, worked with UX designer and PM to create frontend 	2018
	Engineering Practicum Intern, Google, Search Site Reliability Engineering (SRE)Improved internal tools for monitoring and tracking requests to Google Now	2017
GRANTS	NSF Incorporating Human Behavior in Epidemiological Models (IHBEM) Data-driven multimodal methods for behavior-based epidemiological modeling Total funded amount: \$850,000 As a PhD student, I initiated the grant proposal, shaped the research vision, secured a letter of collaboration Microsoft (from Dr. Eric Horvitz), and helped to write the proposal.	2023 n from
TEACHING	 Head course assistant (CA), Stanford University, Machine Learning with Graphs (CS224W) Managed team of 9 CAs and class of around 300 students; oversaw lecture slides, assignments, exams, and final projection of the course material covers the foundations and state-of-the-art of machine learning with graphs, including representation of graph neural networks, reasoning over knowledge graphs, and algorithms for large-scale networks 	
	 Instructor, Girls Who Code, Summer Immersion Program Served as the primary teacher for a classroom of 20 high school girls Taught a 7-week curriculum including Python, HTML, CSS, JavaScript, and Arduino 	2019
	Instructional assistant, Columbia University, Data Structures in Java (COMS 3134)Led discussion sections, held weekly office hours, and graded assignments and exams	2017
	Peer tutor , Columbia University, Computer Science Theory (COMS 3261)	2017
MENTORSHIP	Mentor , International Conference for Computational Social Science (IC^2S^2)	2024
	Mentor, Stanford Computer Science, CURIS (undergraduate summer research)	2023
	Mentor, Machine Learning for Health (ML4H), Career Mentorship Program	2023
	Mentor, Stanford Computer Science, Undergraduate Mentoring Program	2022
	Mentor, Stanford Engineering, Summer Undergraduate Research Fellowship	2021
	Research mentees : Maya Josifovska, Zhiyin Lin, Daisuke Masuda, Emma Wang, Benjami (undergraduates); Damir Vrabac (master's); Alicja Chaszczewicz, Jordan Troutman (PhD)	n Yan
SERVICE	Co-Organizer, NeurIPS Workshop on Behavioral Machine Learning Co-Organizer, KDD Workshop on Epidemiology meets Data Mining and Knowledge discovery Program Chair, Machine Learning for Health (ML4H) Co-Organizer, KDD Workshop on Data Science for Social Good Panel Moderator, KDD Equity, Diversity & Inclusion (EDI) Day Faculty Search Committee, Stanford Data Science and School of Engineering Organizer, NYC Digital Humanities Week, Using Computation to Analyze Gender in Film Journal reviewer The New England Journal of Medicine AI (NEJM AI) Proceedings of the National Academy of Sciences Science Advances Nature Human Behaviour	2024 2024 2023 2023 2023 2023 2019 2024 2024 2024 2023 2022
	American Journal of Sociology ACM Transactions on Spatial Algorithms and Systems npj Urban Sustainability	2021 2021 2021

• Served as AI Advisor on "Project Vision: AI Unveils Tomorrow", which seeks to use AI to analyze how countries are responding to impending risks (e.g., climate change, pandemics, democratic backsliding) and adapting their development strategies

2022-2024

Research Intern, Microsoft Research

Conference reviewer

AAAI	2025
International Conference on Computational Social Science (IC ² S ²)	2024
KDD, epiDAMIK Workshop	2024
AAAI	2024
EMLNP	2024
Machine Learning for Health	2023
ACL Rolling Review	2023
ICWSM	2023
KDD, epiDAMIK Workshop	2023
KDD, Data Science for Social Good Workshop	2023
ACL Rolling Review	2022
Machine Learning for Health	2022
ACL, NLP for Positive Impact Workshop	2022
KDD, epiDAMIK Workshop	2022
ACL-IJCNLP	2021
Machine Learning for Health	2021
ACL, NLP for Positive Impact Workshop	2021
ICLR, AI for Public Health Workshop	2021