

# Serina Chang

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EDUCATION	<b>Stanford University</b> , Stanford, CA Ph.D. candidate, Computer Science Advised by Prof. Jure Leskovec and Prof. Johan Ugander	2019-Present
	<b>Columbia University</b> , New York, NY B.A., Computer Science, concentration in Sociology, <i>magna cum laude</i> Advised by Prof. Kathleen McKeown GPA: 3.97/4.00, Dean's List (all semesters)	2015-2019
HONORS	<b>Outstanding Undergraduate Researcher Award</b> , Computing Research Association	2019
	<b>Graduate Research Fellowship</b> , National Science Foundation	2019
	<b>The Finch Family Fellowship</b> , Stanford University, School of Engineering	2019
	<b>Phi Beta Kappa</b> , Columbia University	2019
	<b>Theodore R. Bashkow Award</b> , Columbia University, Computer Science	2019
	<b>Academic Excellence Award</b> , Columbia University, Computer Science	2019
	<b>Collegiate Award Finalist</b> , National Center for Women and Information Technology	2018
PUBLICATIONS	<b>King's Crown Leadership Award, Innovation and Enhancement</b> , Columbia University	2018
	*indicates co-first authorship.	
	[1] <b>Serina Chang*</b> , Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, David Grusky, and Jure Leskovec. <a href="#">Mobility network models of COVID-19 explain inequities and inform reopening</a> . <i>Nature</i> , 2020; <i>NeurIPS ML for Health Workshop</i> , 2020 (extended abstract). Coverage in 200+ news outlets, including The New York Times, The Washington Post, Bloomberg, CNN, Fox Business, Wired, NPR, The Telegraph, and Nature News.	
	[2] <b>Serina Chang</b> and Kathleen McKeown. <a href="#">Automatically inferring gender associations from language</a> . <i>EMNLP</i> , 2019. Oral presentation.	
	[3] <b>Serina Chang</b> , Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William Frey, Chris Kedzie, and Kathleen McKeown. <a href="#">Detecting gang-involved escalation on social media using context</a> . <i>EMNLP</i> , 2018. Oral presentation.	
WORKING PAPERS	[4] Jessica Ouyang, <b>Serina Chang</b> , and Kathleen McKeown. <a href="#">Crowd-sourced iterative annotation for narrative summarization corpora</a> . <i>EACL</i> , 2017. Oral presentation.	
	[1] <b>Serina Chang</b> and Johan Ugander. A model-based comparison of recommended and organic item-matching processes. 2020.	
TEACHING & MENTORSHIP	[2] Kyle Kawagoe*, Mark Rychnovsky*, <b>Serina Chang</b> , Greg Huber, Mason Kamb, Lucy M. Li, Aaron McGeever, Jonathan Miller, Reuven Pnini, Boris Veytsman, and David Yllanes. Epidemic dynamics in inhomogeneous populations. 2020.	
	<b>Research mentor</b> , Stanford University	2020-present
	▪ Mentoring 2 students in Prof. Leskovec's lab on research projects related to our COVID-19 modeling work	
	<b>Mentor</b> , Stanford Computer Science, Undergraduate Mentoring Program	2020-present
	▪ Mentoring an undergraduate student in Computer Science on research, classes, and career paths	
	<b>PhD student representative</b> , Grace Hopper Conference	2020
	▪ Representative at Stanford booth, spoke with many attendees interested in applying to graduate school	
	<b>Instructor</b> , Girls Who Code, Summer Immersion Program	2019
	▪ 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	
	<b>Workshop organizer</b> , NYC Digital Humanities Week	2019
▪ "Beyond Bechdel: Using Computation to Analyze Gender in Film," co-organized and co-taught with Kara Schechtman		
▪ Introduced techniques in natural language processing and data science to analyze movies; provided sample code and data		

	<b>Instructional assistant</b> , Columbia University, Data Structures in Java (COMS 3134) <ul style="list-style-type: none"> <li>Led discussion sections, held weekly office hours, and graded assignments and exams</li> </ul>	2017
	<b>Peer tutor</b> , Columbia University, Computer Science Theory (COMS 3261)	2017
<b>INVITED TALKS</b>	<b>NeurIPS, COVID-19 Symposium</b> AI Science, Spotlight Series Stanford University, Stats ML Retreat Columbia University, NLP Seminar Columbia University, Emerging Scholars Program (COMS 1404)	2020 2020 2020 2019 2018
<b>WORK EXPERIENCE</b>	<b>Software Engineering Intern</b> , Google, Geo Assistant <ul style="list-style-type: none"> <li>Built a new, user-facing feature for Google Search and Assistant</li> <li>Implemented backend to parse queries in Search and optimize accuracy in the feature's triggering patterns</li> <li>Worked with UX designer and PM to create frontend for the feature</li> </ul> <b>Engineering Practicum Intern</b> , Google, Search Site Reliability Engineering (SRE) <ul style="list-style-type: none"> <li>Improved internal tools for monitoring and tracking requests to Google Now</li> </ul>	2018 2017
<b>LEADERSHIP</b>	<b>Lean In at Columbia</b> , Columbia University <ul style="list-style-type: none"> <li>Co-President (2017-2018); Senior Advisor (2018-2019)</li> <li>Grew active membership by 5x to reach over 100 committed members attending weekly meetings</li> <li>Founded a mentorship program that connected over 70 students to young professionals in the city</li> <li>Organized the first Lean In at CU conference, sponsored by Microsoft, Facebook, IBM, and others</li> </ul> <b>Womxn in CS (WiCS)</b> , Columbia University <ul style="list-style-type: none"> <li>Academic Chair (2016-2019)</li> <li>Founded WiCS Lightning Talks, a series for student researchers to share their research with student audiences</li> <li>Organized panels with faculty and mentorship events with upperclassmen to help students navigate academics in CS</li> </ul> <b>Intercollegiate Chamber Music Festival (ICMF)</b> , NYC <ul style="list-style-type: none"> <li>Co-founded and co-produced with Cindy Liu and Dean Deng, in collaboration with the Chamber Music Society of Lincoln Center; the festival has just finished its fourth successful year</li> <li>ICMF is an annual, weekend-long music festival that celebrates the talent and passion of collegiate chamber musicians</li> <li>Events include a performers' showcase at Lincoln Center, masterclasses with world-renowned artists, and visionary talks with industry leaders</li> </ul>	2016-2019 2016-2019 2017-2019
<b>ACTIVITIES</b>	<b>Music Performance Program (MPP)</b> , Columbia University <ul style="list-style-type: none"> <li>Took lessons in chamber music and piano</li> <li>Selected 3 times to perform in MPP's end-of-year concert at Carnegie Weill Hall</li> </ul> <b>Precollege Program</b> , Manhattan School of Music (MSM) <ul style="list-style-type: none"> <li>Took lessons in piano, violin, chamber music, orchestra, music theory, and ear training</li> <li>Recipient of the Rosetta Goodkind Scholarship and the Ralph Zola Scholarship</li> <li>Multi-time winner of MSM's concerto and chamber music competitions</li> <li>Featured on NPR's <i>From The Top</i> (2012); recipient of the National Young Arts Foundation Merit Award (2013); winner of international piano competitions including American Protege, American Fine Arts Festival, and New York International Artists Association</li> </ul>	2015-2019 2003-2015