

# Serina Chang

serinac@stanford.edu • +1 (646) 300-1686

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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
PUBLICATIONS	<b>King's Crown Leadership Award, Innovation and Enhancement</b> , Columbia University	2018
	[1] <b>Serina Chang*</b> , Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, David Grusky, and Jure Leskovec. "Mobility network models of COVID-19 explain inequities and inform reopening." <i>Nature</i> , 2020.	
	[2] <b>Serina Chang*</b> , Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, David Grusky, and Jure Leskovec. "Mobility network modeling explains higher COVID-19 prevalence among disadvantaged groups." <i>NeurIPS Machine Learning for Health Workshop</i> , 2020. Extended abstract.	
	[3] <b>Serina Chang</b> and Kathleen McKeown. "Automatically inferring gender associations from language." <i>EMNLP</i> , 2019. Oral presentation.	
	[4] <b>Serina Chang</b> , Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Patton, William Frey, Chris Kedzie, and Kathleen McKeown. "Detecting gang-involved escalation on social media using context." <i>EMNLP-IJCNLP</i> , 2018. Oral presentation.	
	[5] Jessica Ouyang, <b>Serina Chang</b> , and Kathleen McKeown. "Crowd-sourced iterative annotation for narrative summarization corpora." <i>Proceedings of the 15th Conference of the European Chapter of the Association for Computational Linguistics (EACL)</i> , 2017. Oral presentation.	
PROFESSIONAL EXPERIENCE	<b>Research Assistant</b> , Columbia University ▪ Conducted natural language processing research in Prof. Kathleen McKeown's and Prof. Smaranda Muresan's labs ▪ Project areas included computational social science, automatic summarization, and argumentation mining 2016-2019	
	<b>Software Engineering Intern</b> , Google, Geo Assistant ▪ Built a new, user-facing feature for Google Search and Assistant ▪ Implemented backend to parse queries in Search and optimize accuracy in the feature's triggering patterns ▪ Worked with UX designer and PM to create frontend for the feature Summer 2018	
	<b>Engineering Practicum Intern</b> , Google, Search Site Reliability Engineering (SRE) ▪ Improved internal tools for monitoring and tracking requests to Google Now Summer 2017	
TEACHING EXPERIENCE	<b>Instructor</b> , 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 Summer 2019	
	<b>Workshop Organizer</b> , NYC Digital Humanities Week ▪ "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 Spring 2019	
	<b>Guest Lecturer</b> , Columbia University, Emerging Scholars Program (ESP) ▪ Invited to speak for ESP, a course for introductory students in CS ▪ Present multiple research talks; maintained mentoring relationships afterwards with several students Spring & Fall 2018	

	<b>Instructional Assistant</b> , Columbia University, Data Structures in Java <ul style="list-style-type: none"> <li>Assisted Prof. Paul Blaer in teaching an undergraduate class of over 200 students</li> <li>Led discussion sections, held weekly office hours, and graded assignments and exams</li> </ul>	Spring & Fall 2017
	<b>Peer Tutor</b> , Columbia University, Computer Science Theory	Spring 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>	2016-2019
	<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>	2016-2019
	<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 (2017-2019), 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>	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>	2015-2019
	<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>	2003-2015