

Serina Chang

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EDUCATION	Stanford University , Stanford, CA	2019-Present
	Ph.D. candidate, Computer Science; advised by Jure Leskovec and Johan Ugander	
	Columbia University , New York, NY	2015-2019
	B.A., Computer Science, concentration in Sociology, <i>magna cum laude</i> Dean's List (all semesters), Phi Beta Kappa	GPA: 3.97/4.00
HONORS	Outstanding Undergraduate Researcher Award , Computing Research Association	2019
	Graduate Research Fellowship , National Science Foundation	2019
	The Finch Family Fellowship , Stanford University, School of Engineering	2019
	Theodore R. Bashkow Award , Columbia University, Computer Science	2019
	Academic Excellence Award , Columbia University, Computer Science	2019
	Collegiate Award Finalist , National Center for Women and Information Technology	2018
	King's Crown Leadership Award, Innovation and Enhancement , Columbia University	2018
PUBLICATIONS	[1] Serina Chang* , Emma Pierson*, Pang Wei Koh*, Jaline Geradin, Beth Redbird, David Grusky, and Jure Leskovec. "Mobility network modeling explains higher SARS-CoV-2 infection rates among disadvantaged groups and informs reopening strategies." <i>Working paper</i> , 2020.	
	[2] Serina Chang and Kathleen McKeown. "Automatically inferring gender associations from language." <i>Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)</i> , 2019. Oral presentation.	
	[3] Serina Chang , 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.	
	[4] Jessica Ouyang, Serina Chang , 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	Research Assistant , Columbia University	2016-2019
	▪ Conducted research in natural language processing (NLP) with Kathleen McKeown and Smaranda Muresan	
	▪ Project areas included computational social science, automatic summarization, and argumentation mining	
	Software Engineering Intern , Google, Geo Assistant	Summer 2018
	▪ Built a new, user-facing feature for Google Search and Assistant	
TEACHING EXPERIENCE	▪ 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	
	Engineering Practicum Intern , Google, Search Site Reliability Engineering (SRE)	Summer 2017
	▪ Improved internal tools for monitoring and tracking requests to Google Now	
	Instructor , Girls Who Code, Summer Immersion Program	Summer 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	
	Workshop Organizer , NYC Digital Humanities Week	Spring 2019
	▪ "Beyond Bechdel: Using Computation to Analyze Gender in Film," co-organized and co-taught with Kara Schechtman	
	▪ Introduced computational methods of analyzing movies, covering techniques in NLP, machine learning, and data science	
	Guest Lecturer , Columbia University, Emerging Scholars Program (ESP)	Spring & Fall 2018
	▪ Invited to speak for ESP, a course for introductory students in CS	
	▪ Present multiple research talks; maintained mentoring relationships afterwards with several students	
	Instructional Assistant , Columbia University, Data Structures in Java	Spring & Fall 2017
	▪ Assisted Prof. Paul Blaer in teaching an undergraduate class of over 200 students	
	▪ Led discussion sections, held weekly office hours, and graded assignments and exams	

LEADERSHIP

- Lean In at Columbia**, Columbia University 2016-2019
- Co-President (2017-2018); Senior Advisor (2018-2019)
 - Grew active membership by 5x to reach over 100 committed members attending weekly meetings
 - Founded a mentorship program that connected over 70 students to young professionals in the city
 - Organized the first Lean In at CU conference, sponsored by Microsoft, Facebook, IBM, and others
- Womxn in CS (WiCS)**, Columbia University 2016-2019
- Academic Chair (2016-2019)
 - Founded WiCS Lightning Talks, a series for student researchers to share their research with student audiences
 - Organized panels with faculty and mentorship events with upperclassmen to help students navigate academics in CS
- Intercollegiate Chamber Music Festival (ICMF)**, NYC 2017-2019
- 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
 - ICMF is an annual, weekend-long music festival that celebrates the talent and passion of collegiate chamber musicians
 - Events include a performers' showcase at Lincoln Center, masterclasses with world-renowned artists, and visionary talks with industry leaders

ACTIVITIES

- Music Performance Program (MPP)**, Columbia University 2015-2019
- Took lessons in chamber music and piano
 - Selected 3 times to perform in MPP's end-of-year concert at Carnegie Weill Hall
- Precollege Program**, Manhattan School of Music (MSM) 2003-2015
- Took lessons in piano, violin, chamber music, orchestra, music theory, and ear training
 - Recipient of the Rosetta Goodkind Scholarship and the Ralph Zola Scholarship
 - Multi-time winner of MSM's concerto and chamber music competitions
 - Featured on NPR's *From The Top* (2012); recipient of 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