Serina Chang

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EDUCATION	Stanford University, Stanford, CA Ph.D. candidate, Computer Science	2019-present
	Advised by Prof. Jure Leskovec and Prof. Johan Ugander Columbia University, New York, NY B.A., Computer Science, concentration in Sociology, <i>magna cum laude</i>	2015-2019
	Advised by Prof. Kathleen McKeown GPA: 3.97/4.00, Dean's List (all semesters)	
HONORS	Outstanding Undergraduate Researcher Award, Computing Research Association Graduate Research Fellowship, National Science Foundation The Finch Family Fellowship, Stanford University, School of Engineering Phi Beta Kappa, Columbia University Theodore R. Bashkow Award, Columbia University, Computer Science Academic Excellence Award, Columbia University, Computer Science Collegiate Award Finalist, National Center for Women and Information Technology King's Crown Leadership Award, Innovation and Enhancement, Columbia University	2019 2019 2019 2019 2019 2019 2018 2018
PUBLICATIONS	*indicates co-first authorship. [1] Serina Chang *, Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, Dav Jure Leskovec. Mobility network models of COVID-19 explain inequities and info <i>Nature</i> , 2020; <i>NeurIPS</i> ML for Health Workshop, 2020 (extended abstract). Coverage outlets, including The New York Times, The Washington Post, Bloomberg, CNN, Wired, NPR, The Telegraph, MIT Technology Review, and Nature News.	rm reopening. e in 300+ news
	[2] Serina Chang and Kathleen McKeown. Automatically inferring gender associations f <i>EMNLP</i> , 2019. Oral presentation.	rom language.
	[3] Serina Chang , Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond P Frey, Chris Kedzie, and Kathleen McKeown. Detecting gang-involved escalation or using context. <i>EMNLP</i> , 2018. Oral presentation.	
	[4] Jessica Ouyang, Serina Chang , and Kathleen McKeown. Crowd-sourced iterative narrative summarization corpora. <i>EACL</i> , 2017. Oral presentation.	annotation for
WORKING PAPERS	S [1] Serina Chang and Johan Ugander. To recommend or not? A model-based of item-matching processes. 2021.	comparison of
	[2] Serina Chang , Mandy L. Wilson, Bryan Lewis, Zakaria Mehrab, Komal K. Duc Pierson, Pang Wei Koh, Jaline Gerardin, Beth Redbird, David Grusky, Madhav Mar Leskovec. Supporting COVID-19 policy response with large-scale mobility-based mo	athe, and Jure
	[3] Kyle Kawagoe*, Mark Rychnovsky*, Serina Chang , Greg Huber, Lucy M. Li, Jo Reuven Pnini, Boris Veytsman, and David Yllanes. How much do superspreaders mat dynamics in inhomogeneous populations. 2021.	
	[4] Serina Chang . Disentangling word association in distributional semantics with Word	lNet. 2019.
TEACHING & MENTORSHIP	Research mentor , Stanford University ■ Mentoring 2 students in Prof. Leskovec's lab on research projects related to COVID-19 and mobility	2020-present
	Mentor, Stanford Computer Science, Undergraduate Mentoring Program ■ Mentoring an undergraduate student in Computer Science on research, classes, and career paths	2020-present
	 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

2019

Workshop organizer, 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

Instructional assistant , Columbia University, Data Structures in Java (COMS 3134)	2017
 Led discussion sections, held weekly office hours, and graded assignments and exams 	

Peer tutor, Columbia University, Computer Science Theory (COMS 3261)

INVITED TALKS

OECD-ODISSEI Webinar on Open Data Infrastructure	2021
Stanford University, Networks (MS&E 135)	2021
Harvard-BCH Machine Learning Club	2021
Stanford San Diego Alumni Club, Speaker Event	2021
NeurIPS, COVID-19 Symposium	2020
AI Science Spotlight Series	2020
Placekey Community Seminar	2020
Stanford University, Stats ML Retreat	2020
Columbia University, NLP Seminar	2019
Columbia University, Emerging Scholars Program (COMS 1404)	2018

WORK EXPERIENCE

Software Engineering Intern, Google, Geo Assistant

2018

2017

2017

- 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

Engineering Practicum Intern, Google, Search Site Reliability Engineering (SRE)

Improved internal tools for monitoring and tracking requests to Google Now

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, 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 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