Serina Chang

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Stanford University, Stanford, CA Ph.D. candidate, Computer Science

Advised by Prof. Jure Leskovec and Prof. Johan Ugander

EDUCATION

2019-present

2019

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	Columbia University, New York, NY	2015-2019		
	B.A., Computer Science, concentration in Sociology, magna cum laude			
	Advised by Prof. Kathleen McKeown			
	GPA: 3.97/4.00, Dean's List (all semesters)			
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		
	Phi Beta Kappa, Columbia University	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	*indicates co-first authorship.			
	[1] Serina Chang *, Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, Dav	id Grusky, and		
	Jure Leskovec. Mobility network models of COVID-19 explain inequities and info	•		
	<i>Nature</i> , 2020. Also presented at <i>NeurIPS</i> 2020 ML for Health Workshop and <i>Networ</i>			
	Coverage in 300+ news outlets, including The New York Times, The Washington Po	` ,		
	CNN, Fox Business, Wired, NPR, The Telegraph, MIT Technology Review, and Nati			
	[2] Serina Chang and Kathleen McKeown. Automatically inferring gender associations			
	EMNLP, 2019. Oral presentation.	Tom language.		
	[3] Serina Chang , Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond F	atton, William		
	Frey, Chris Kedzie, and Kathleen McKeown. Detecting gang-involved escalation o			
	using context. EMNLP, 2018. Oral presentation.			
	[4] Jessica Ouyang, Serina Chang, and Kathleen McKeown. Crowd-sourced iterative	annotation for		
	narrative summarization corpora. <i>EACL</i> , 2017. Oral presentation.			
	•			
WORKING PAPERS	S [1] Serina Chang and Johan Ugander. To recommend or not? A model-based	comparison of		
	item-matching processes. 2021.	•		
	[2] Serina Chang, Mandy L. Wilson, Bryan Lewis, Zakaria Mehrab, Komal K. Du	dakiya. Emma		
	Pierson, Pang Wei Koh, Jaline Gerardin, Beth Redbird, David Grusky, Madhav Mai			
	Leskovec. Supporting COVID-19 policy response with large-scale mobility-based m			
	[3] Kyle Kawagoe*, Mark Rychnovsky*, Serina Chang , Greg Huber, Lucy M. Li, Jo			
	Reuven Pnini, Boris Veytsman, and David Yllanes. How much do superspreaders ma			
	dynamics in inhomogeneous populations. 2021.	iter: Epideiliic		
		INT - 2010		
	[4] Serina Chang . Disentangling word association in distributional semantics with Word	1Net. 2019.		
TEACHING 0	Descayeh mentay Ctanford University	2020 procent		
TEACHING & MENTORSHIP	Research mentor, Stanford UniversityMentoring 3 students in Prof. Leskovec's lab on research projects related to COVID-19 modeling and research projects.	2020-present		
MEMIORSHIF		-		
	Mentor, Stanford Computer Science, Undergraduate Mentoring Program 2020-present			
	 Mentoring an undergraduate student in Computer Science on research, classes, and career paths 			
	Instructor , 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 			
	Mandahan aggaring NVC Digital Humanitias Mada	2010		

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