Serina Chang

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EDUCATION	Stanford University , Stanford, CA Ph.D. candidate, Computer Science Advised by Prof. Jure Leskovec and Prof. Johan Ugander	2019-present
	Columbia University , 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	Best Paper Award, KDD 2021 (Applied Data Science Track) 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	2021 2019 2019 2019 2019 2019 2019 2018 2018
PUBLICATIONS	 *indicates co-first authorship. [1] Serina Chang, Mandy L. Wilson, Bryan Lewis, Zakaria Mehrab, Komal K. Dud Pierson, Pang Wei Koh, Jaline Gerardin, Beth Redbird, David Grusky, Madhav Man Leskovec. Supporting COVID-19 policy response with large-scale mobility-based m 2021 (Applied Data Science Track, Best Paper Award). Oral presentation. [2] Serina Chang*, Emma Pierson*, Pang Wei Koh*, Jaline Gerardin, Beth Redbird, Dav Jure Leskovec. Mobility network models of COVID-19 explain inequities and informature, 2020. Also presented at Networks 2021 (oral) and NeurIPS 2020 ML for Head Coverage in 300+ news outlets, including The New York Times, The Washington Potton, Fox Business, Wired, NPR, The Telegraph, MIT Technology Review, and Nata Serina Chang and Kathleen McKeown. Automatically inferring gender associations of EMNLP 2019 (short paper). Oral presentation. [4] Serina Chang, Ruiqi Zhong, Ethan Adams, Fei-Tzin Lee, Siddharth Varia, Desmond Ferey, Chris Kedzie, and Kathleen McKeown. Detecting gang-involved escalation of using context. EMNLP 2018 (long paper). Oral presentation. [5] Jessica Ouyang, Serina Chang, and Kathleen McKeown. Crowd-sourced iterative narrative summarization corpora. EACL 2017 (short paper). Oral presentation. 	rathe, and Jure odeling. KDD id Grusky, and orm reopening. alth Workshop. st, Bloomberg, ure News. from language.
WORKING PAPER	 Serina Chang and Johan Ugander. To recommend or not? A model-based comparison of item-matching processes. 2021. Also presented at IC2S2 2021 (oral). Kyle Kawagoe*, Mark Rychnovsky*, Serina Chang, Greg Huber, Lucy M. Li, Jonathan Miller, Reuven Pnini, Boris Veytsman, and David Yllanes. How much do superspreaders matter? Epidemic dynamics in inhomogeneous populations. 2021. Serina Chang. Disentangling word association in distributional semantics with WordNet. 2019. 	
TEACHING & MENTORSHIP	 Head course assistant, Stanford University, Machine Learning with Graphs (CS 224W) Research mentor, Stanford University ■ Mentoring 3 students in Prof. Leskovec's lab on research projects related to COVID-19 modeling and mentor, Stanford Engineering, Summer Undergraduate Research Fellowship Mentor, Stanford Computer Science, Undergraduate Mentoring Program 	2021 2020-present nobility 2021 2020

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 Workshop organizer, 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 **Instructional assistant**, Columbia University, Data Structures in Java (COMS 3134) 2017 **Peer tutor**, Columbia University, Computer Science Theory (COMS 3261) 2017 WORK 2018 Software Engineering Intern, Google, Geo Assistant Built a new, user-facing feature for Google Search and Assistant **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) 2017 Improved internal tools for monitoring and tracking requests to Google Now INVITED TALKS Cornell Tech, Guest Lecture for Urban Data (INFO 5430) 2021 (scheduled) 2021 (scheduled) March for Science podcast Harvard-BCH Machine Learning Club 2021 (scheduled) OECD-ODISSEI Webinar on Open Data Infrastructure 2021 PathCheck Global Health Innovators Seminar 2021 Stanford, Guest Lecture for Networks (MS&E 135) 2021 Diaries of Social Data Research podcast 2021 Stanford, Guest Lecture for Big Data Methods for Behavioral, Social, and 2021 Population Health Research (EPI 270) Stanford San Diego Alumni Club, Speaker Event 2021 NeurIPS, COVID-19 Symposium 2020 AI Science Spotlight Series 2020 The Octavian Report podcast 2020 Placekey Community Seminar 2020 Stanford, Stats ML Retreat 2020 Columbia, NLP Seminar 2019 Columbia, Guest Lecture for Emerging Scholars Program (COMS 1404) 2018 SERVICE Journal reviewer for: American Journal of Sociology ACM Transactions on Spatial Algorithms and Systems **Conference reviewer** for: Machine Learning for Health (ML4H) Symposium 2021 ACL 2021, NLP for Social Good Theme ACL 2021, NLP for Positive Impact Workshop ■ ICLR 2021, AI for Public Health Workshop 2016-2019 **LEADERSHIP Lean In at Columbia**, Columbia University • 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 student-mentor pairs 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

at Lincoln Center, masterclasses with world-renowned artists, and talks with industry leaders

Co-founded and co-produced with Cindy Liu and Dean Deng, in collaboration with the Chamber Music Society of Lincoln

ICMF is an annual, weekend-long music festival for collegiate chamber musicians; events include a performers' showcase

2017-2019

Intercollegiate Chamber Music Festival (ICMF), NYC

Center; the festival has just finished its fourth successful year

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*; recipient of the National YoungArts Merit Award; winner of international piano competitions including American Protégé, American Fine Arts Festival, and New York International Artists Association