Serina Chang

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EDUCATION

Stanford University, Stanford, CA   2019-Present
Ph.D. candidate, Computer Science
Advised by Prof. Jure Leskovec and Prof. Johan Ugander

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

[1] **Serina Chang***, 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." *Nature*, 2020.

[2] **Serina Chang***, 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." *NeurIPS Machine Learning for Health Workshop*, 2020. Extended abstract.

[3] **Serina Chang** and Kathleen McKeown. "Automatically inferring gender associations from language." *EMNLP*, 2019. Oral presentation.

[4] **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." *EMNLP*, 2018. Oral presentation.

[5] Jessica Ouyang, **Serina Chang**, and Kathleen McKeown. "Crowd-sourced iterative annotation for narrative summarization corpora." *EACL*, 2017. Oral presentation.

PROFESSIONAL EXPERIENCE

Research Assistant, Columbia University   2016-2019
- 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

Software Engineering Intern, Google, Geo Assistant   Summer 2018
- 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)   Summer 2017
- Improved internal tools for monitoring and tracking requests to Google Now

TEACHING EXPERIENCE

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 techniques in natural language processing and data science to analyze movies; provided sample code and data

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

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

Peer Tutor, Columbia University, Computer Science Theory   Spring 2017

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 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