

Serina Chang

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EDUCATION	Stanford University , Stanford, CA	2019 - Present
	Ph.D. candidate in Computer Science (CS)	
	Columbia University , New York, NY	2015 - 2019
	B.A., <i>magna cum laude</i> , Dean's List (all semesters)	GPA: 3.97/4.00
	Computer Science, concentration in Sociology	
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	2019
	Phi Beta Kappa , Columbia University	2019
	Computer Science Academic Excellence Award , Columbia University	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 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.	
	[2] 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.	
	[3] 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	
	▪ 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 & TUTORIALS	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	
	▪ Explored computational methods of analyzing movies, covering techniques in NLP, machine learning, and data science	
	▪ Prepared starter code, data, and introductory exercises for attendees to try out during the workshop	
	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 with students who reached out	
	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

SKILLS

Languages: English, Chinese Mandarin

Programming languages (proficient): Java, Python, HTML, CSS, JavaScript, BASH

Programming languages (familiar): C, C++, Arduino, R

Tools: Git, \LaTeX , Amazon Mechanical Turk development, Google Cloud virtual machines

Classical music: piano, violin, choir [YouTube]

REFERENCES

Dr. Kathleen McKeown

Henry and Gertrude Rothschild Professor of Computer Science, Columbia University

Founding Director of Columbia's Data Science Institute

kathy@cs.columbia.edu

Relationship: Research Advisor

Dr. Julia Hirschberg

Percy K. and Vida L. W. Hudson Professor of Computer Science, Columbia University

Department Chair (2012-2018)

julia@cs.columbia.edu

Relationship: Mentor and Department Chair