ALLEN CHANG

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allencchang

I am an incoming Ph.D. student at the University of Pennsylvania's NLP group.

My undergraduate research was on human behavior recognition in

multimodal human-machine interaction.

EDUCATION

Fall 2024 University of Pennsylvania

Ph.D. Computer and Information Science

Advisor: Mark Yatskar

2020-2024 University of Southern California

B.S. Computer Science, B.S. Applied & Computational Mathematics Advisors: Maja Matarić, Jesse Thomason, Stefanos Nikolaidis Summa Cum Laude, Cumulative GPA: 3.9 / 4.0

WORK EXPERIENCE

Summer 2023 Carnegie Mellon University, Robotics Institute Summer Scholar

Advisor: Jean Oh

Summer 2022 Massachusetts Institute of Technology, MIT Haystack Observatory REU Intern

Advisor: Mary Knapp

Summer 2021 Tsinghua University, Research Fellow

Advisor: Shaoxu Song

PUBLICATIONS (* INDICATES EQUAL CONTRIBUTION)

2024 Quality-Diversity Generative Sampling for Learning with Synthetic Data

AAAI Allen Chang, Matthew C. Fontaine, Serena Booth, Maja J. Matarić, and Stefanos Nikolaidis.

24% Accept. Rate Conference on Artificial Intelligence (AAAI), 2024. PDF

2023 Multimodal Speech Recognition for Language-Guided Embodied Agents

INTERSPEECH Allen Chang, Xiaoyuan Zhu, Aarav Monga, Seoho Ahn, Tejas Srinivasan, and Jesse Thomason.

50% Accept. Rate Conference of the International Speech Communication Association (INTERSPEECH), 2023. PDF

Oral presentation.

2023 Removing Radio Frequency Interference from Auroral Kilometric Radiation with

ICASSP Stacked Autoencoders

45% Accept. Rate Allen Chang, Mary Knapp, James LaBelle, John Swoboda, Ryan Volz, and Philip. J. Erickson.

International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2023. PDF

2022 Evaluating Temporal Patterns in Applied Infant Affect Recognition

ACII Allen Chang *, Lauren Klein *, Marcelo R. Rosales, Weiyang Deng, Beth A. Smith, and Maja

46% Accept. Rate J. Matarić.

Affective Computing and Intelligent Interaction (ACII), 2022. PDF

Oral presentation.

AWARDS & HONORS

Scholarships

2024 NSF Graduate Research Fellowship (GRFP)

National fellowship recognizing Ph.D. students pursuing STEM research.

2023	Barry M. Goldwater Scholarship National scholarship recognizing UGs pursuing STEM research.
2022	USC Provost's Undergraduate Research Fellowship Research scholarship for UGs. Awarded, funding declined due to another concurrent fellowship.
2022	USC Viterbi School of Engineering CURVE Research Fellowship Research scholarship for UGs.
2021	USC Academic Achievement Award Scholarship Scholarship for UGs pursuing multiple degrees.
	Awards, Distinctions, & Prizes
2024	National Academy of Engineering Grand Challenges Scholar
2024	USC Discovery Scholar
2024	USC Global Scholar
2021	USC CIMES Engineering Mathematics Prize
	Honor Programs & Societies
2024	USC Engineering Honors with Distinction in Research
2022	Tau Beta Pi Honor Society
2021	Phi Kappa Phi Honor Society
TEACHING	
2021-2023	USC Center for Al in Society's Student Branch (CAIS++), Curriculum Lead
Spring 2021	USC CSCI 170: Discrete Methods in Computer Science, Undergraduate Teaching Assistant
INVITED TA	ALKS
June 11, 2024	Cohere For Al, Community Talk Seminar Title: Quality-Diversity Generative Sampling (QDGS) for Learning with Synthetic Data
SERVICE	
	Leadership
2021-2023	USC Center for Al in Society's Student Branch (CAIS++) Co-President (May 2022-May 2023) • Project Lead (Jul 2022-May 2023) • Curriculum Lead (Aug 2021-Dec 2022) • Vice President of Operations (Aug 2021-Apr 2022)
2020-2022	USC Association for Computing Machinery (ACM) Vice President (Jan 2022-May 2022) • Operations Co-Chair (Dec 2020-Dec 2021) • Events & Membership Coordinator (Aug 2020-Nov 2020)
	Reviewing
2024	Association for Computational Linguistics / ARR Review
	Volunteering
2024	Conference on Artificial Intelligence (AAAI)
2022	Affective Computing and Intelligent Interaction (ACII)