Run Chen

	Education
Sept. 2020 - present	Columbia University , New York, NY. Candidate for PhD in <i>Computer Science</i> . Advisor: Julia Hirschberg.
Sept. 2019 - May 2020	Massachusetts Institute of Technology (MIT), Cambridge, MA. Master of Engineering in <i>Computer Science and Molecular Biology</i> .
Sept. 2015 - Jun. 2019	Massachusetts Institute of Technology (MIT) , Cambridge, MA. Bachelor of Science in <i>Linguistics and Philosophy</i> , and in <i>Computer Science and Molecular Biology</i> .
	Research and Work Experience
Sept. 2020 - present	Research Assistant , <i>Columbia University Spoken Language Processing Group</i> , New York, NY
	 DARPA CCU project: collected and annotated data for cross-cultural emotional understanding, built models for identifying entrainment and empathy DARPA SemaFor project: collected a dataset of sarcastic Twitter posts on COVID-19 related topics; built sarcasm detection BERT models to identify sarcastic intent behind social media content
May 2022 - Aug. 2022	 Applied Scientist Intern Amazon Alexa AI, remote in New York, NY Built models for identifying entrainment behaviors between users and agents Analyzed entrainment levels in task-oriented and chit chat dialogs Extracted accoutic-prosodic features from the DSTC-10 Task 1 corpus
May 2021 - Sept. 2021	 Applied Scientist Intern Amazon Alexa AI, remote in New York, NY Built dialog act classification BERT models using both text and speech features Extracted Parselmouth and OpenSMILE features from the Switchboard corpus Designed dialog act schema and annotated dialog acts on a development set for a newly collected speech corpus of task-oriented conversations.
Mar. 2019 - May 2020	 Research Assistant, <i>MIT Laboratory for Information and Decision Systems (LIDS)</i>, Cambridge, MA Analyzed adjectives and adverbs from Google Books Ngram to test the cartography theory; designed evaluation metrics for the performance of clustering; extracted semantic categories from WordNet
Sept. 2019 - May 2020	 Lab Assistant, <i>MIT Department of Electrical Engineering and Computer Science</i>, Cambridge, MA, Taught lab sessions for undergraduate machine learning class of 300 students Held office hours and answered questions on online forum Piazza
Jul. 2019 - Aug. 2019	 Software Engineer Intern, Alibaba Group, Hangzhou, China Applied machine learning for interpreting government services policies and regulations for searching optimization in an online service platform
Jun. 2016 - May 2018	 Research Assistant, MIT Computer Science and Artificial Intelligence Lab (CSAIL), Cambridge, MA Prepared stimuli and ran experiments to collect eye movement data Extracted and analyzed data for correlation between native languages and fixation parameters
	 ters Received credits in publication: <i>Predicting Native Language from Gaze</i> (Berzak et al., 2017 ACL)

Apr. 2016 - Research Assistant, MIT Research Lab for Electronics (RLE), Cambridge, MA

Jan. 2017 • Annotated sound files with acoustic features and landmarks to extrapolate a formula accounting for systematic sound variations in speech context for machine speech recognition

Publications

- Conference **Chen, R**. Liu, Y., Papangelis, A., Kim, S., Hirschberg, J., Hakkani-Tur, D. (In Review) *Identifying Entrainment in Task-oriented Conversations*. AAAI Conference on Artificial Intelligence, 2023.
- Conference Ai, L., Chen, R., Gong, Z., Guo, J., Hooshmand, S., Yang, Z. Hirschberg, J. (2021, June) Exploring New Methods for Identifying False Information and the Intent Behind It on Social Media: COVID-19 Tweets. Sixth International Workshop on Social Sensing (SocialSens 2021), AAAI-ICWSM, Atlanta. a: COVID-19 Tweets. DOI: 10.36190/2021.31
 - Thesis **Chen, R**. (2020) *Recovery of adjective hierarchy through unsupervised learning*. [Master's thesis, Massachusetts Institute of Technology.] Retrieved from DSpace@MIT. http://dspace.mit.edu/handle/1721.1/7582
- Conference **Chen, R**. (2020). Superiority Effect in Albanian Multiple Wh-movement. *Proceedings of the Linguistic Society of America*, 5(1):623-630. ISSN 2473-8689. DOI: 10.3765/plsa.v5i1.4735.
- Conference Umejima, K., **Chen, R**., Flynn, S., Sakai, K. L. (2019). Enhanced activations in syntaxrelated regions for multilinguals while newly acquiring a language. *Neurosci. Res. Suppl.*, 20-08m2-3.
- Conference Umejima, K., Yamada, A., **Chen, R**., Flynn, S., Sakai, K. L. (2018). Syntax-related networks of newly acquiring a language for multilinguals. *Neurosci. Res. Suppl.*, 3O-02a1-3.
 - Book **Chen, R**. (2014). *Linguistics Olympiad Guide for Beginners (Yu Yan Xue Ru Men Zhi Nan)*. Hangzhou: Zhejiang People's.

Languages and Technical Skills

Languages Mandarin Chinese, Wu, Japanese, Russian, American Sign Language Technical Python, Java, LATEX, SQL, MATLAB, R, SPSS, EyeLink

Awards and Honors

- 2020-2024 Columbia University Presidential Fellowship (\$94,467)
- 2015-2019 MIT Gur Tsoo Yuan Scholarship
- 2017-2019 Eta Kappa Nu National Honor Society Member
 - 2018 MIT SHASS Undergraduate Fund Recipient Independent Project on Albanian Wh-movement
- 2017-2018 MIT EECS | CS+HASS Undergraduate Research and Innovation Scholar NLP Project: Understanding Reading Comprehension of Nonnatives Using Eye-tracking Method
- 2016-2018 MIT International Science and Technology Initiatives (MISTI) Hayashi Seed Fund Student Researcher
 - 2014 International Linguistics Olympiad, Silver Medal, Team Rank 3rd

Leadership and Activities

- 2017-2018 Wuming Theater Club, President, Producer, Designer
- 2018-2019 Eta Kappa Nu National Honor Society, MIT Chapter Treasurer