

Haonan Chen

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EDUCATION

University of North Carolina, Chapel Hill Dec. 2019
M.S. in Department of Computer Science
Advisor: Prof. Ron Alterovitz (Co-advised by Prof. Mohit Bansal)
Thesis: Enabling Robots to Understand Incomplete Natural Language Instructions Using Commonsense Reasoning

Tsinghua University Jul. 2017
Bachelor of Engineering, Dept. of Automation
Thesis: Merging Lane Group Decision Making Based on Vehicle Infrastructure Cooperation
GPA: 88.77/100 Ranking: 17/139

WORKING EXPERIENCE

TikTok Inc., San Jose, CA, USA Dec. 2019 - present
Title: Research Engineer

- Developing agent system and algorithms that facilitates music creation for people with all levels of music knowledge (Product: Ripple <https://shorturl.at/xQUX1>)
- Conducting research on music generation using language model, music popularity prediction, music video classification, etc.
- Developing in-house digital audio workstation (DAW) engine and support it's usage in in-house apps.
- Developing in-house music digital signal processing SDK and support it's usage for in-house apps (Douyin, TikTok, CapCut, Xigua, etc.) and external business partners.

Bytedance Inc., Palo Alto, CA, USA May 2019 - Aug. 2019
Title: Research Intern

- Develop instrumental audio synthesis model given symbolic music representation such as piano roll.

Megvii Inc. (Face ++), Beijing, China Sept. 2016 - Feb. 2017
Title: Research Intern

- Research on person re-identification in surveillance video.

University of Michigan Jun. 2016 - Sept. 2016
Title: Research Intern

PUBLICATION

Haonan Chen, Hao Tan, Alan Kuntz, Mohit Bansal, Ron Alterovitz. "Enabling Robots to Understand Incomplete Natural Language Instructions Using Commonsense Reasoning." IEEE International Conference on Robotics and Automation (ICRA), 2020. [[pdf](#)]

Yixin Nie, **Haonan Chen**, Mohit Bansal. "Combining Fact Extraction and Verification with Neural Semantic Matching Networks". Proceedings of AAAI 2019, Honolulu, Hawaii.

Oral Presentation at [Fact Extraction and Verification \(FEVER\) Workshop](#), EMNLP 2018, Brussels, Belgium.