

# Siqi Ouyang

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## EDUCATION

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<b>Carnegie Mellon University</b> Ph.D. in Language Technologies Institute • Advisor: Lei Li	Pennsylvania, United States 2024.1 - Today
<b>University of California, Santa Barbara</b> Ph.D. in Computer Science • Advisor: Lei Li • GPA: 4.00 / 4.00	California, United States 2021.9 - 2023.12
<b>Tsinghua University</b> B.Eng. in Computer Science and Technology • Advisor: Yi Wu • GPA: 3.80 / 4.00 • Special Pilot CS Class a.k.a. Yao Class	Beijing, China 2017.8 - 2021.6

## EMPLOYMENT

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<b>Meta AI Research</b> Research Intern • Mentor: Xutai Ma • Distill efficient monotonic multihead attention from a pre-trained simultaneous machine translation model to a simultaneous speech translation model.	New York, United States 2023.6 - 2024.1
<b>Bytedance AI Lab</b> Research Intern • Mentor: Hao Zhou • Develop a 3D molecular geometric editing method and combine it with simulated annealing to achieve unsupervised drug design.	Shanghai, China 2021.6 - 2021.9
<b>MIT NLP Group</b> Visiting Student • Advisor: Regina Barzilay • Develop a per-token regularizer that penalizes the model when its outputs deviates too much from the global topic distribution.	Massachusetts, United States 2020.2 - 2020.8
<b>HKU CS</b> Research Intern • Advisor: Zhiyi Huang • Prove that no deterministic algorithm could achieve a competitive ratio better than 2/3 in a specific online bipartite matching scenario and achieve this upper bound with a modified Kuhn's Hungarian method.	Hong Kong, China 2019.7 - 2019.9

## SELECTED AWARDS

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Waibel Presidential Fellowship	2024
Tsinghua University Yao Recognition Prize	2021
Gold Medal, Chinese National Olympiad in Informatics	2016

## PUBLICATION

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<b>AutoPlan: Automatic Planning of Interactive Decision-Making Tasks With Large Language Models</b> Siqi Ouyang, Lei Li	Findings of EMNLP 2023
<b>WACO: Word-Aligned Contrastive Learning for Speech Translation</b> Siqi Ouyang, Rong Ye, Lei Li	ACL 2023
<b>Pre-trained Language Models Can be Fully Zero-Shot Learners</b> Xuandong Zhao, Siqi Ouyang, Zhiguo Yu, Ming Wu, Lei Li	ACL 2023
<b>On the Impact of Noises in Crowd-Sourced Data for Speech Translation</b> Siqi Ouyang, Rong Ye, Lei Li	IWSLT 2022

**Efficient Monotonic Multihead Attention**

Arxiv 2023

Xutai Ma, Anna Sun, Siqi Ouyang, Hirofumi Inaguma, Paden Tomasello

**Knowledge Guided Geometric Editing for Unsupervised Drug Design**

OpenReview 2021

Yuwei Yang, Siqi Ouyang, Meihua Dang, Mingyue Zheng, Lei Li, Hao Zhou

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MENTORED STUDENTS

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Chinmay Dandekar, CS Undergraduate at UC Santa Barbara

Xi Xu, CS Master at CMU