

Henry Li Xinyuan

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About

- PhD Student at Johns Hopkins University, Center for Speech and Language Processing.
- Advised by Sanjeev Khudanpur
- Focus areas : Speech Recognition, Speech Translation, Adversarial Robustness

Education

Johns Hopkins Whiting School of Engineering <i>PhD in Electrical and Computer Engineering</i>	Baltimore, Maryland <i>Sep. 2022–</i>
Johns Hopkins Whiting School of Engineering <i>MSE in Computer Science</i>	Baltimore, Maryland <i>Jan. 2021– May. 2022</i>
University of Oxford <i>BA Mathematics and Computer Science</i>	Oxford, United Kingdom <i>2016–2019</i>

Publications

Clustering Unsupervised Representations as Defense Against Poisoning Attacks <i>Interspeech 2023</i>	<i>Dec. 2023</i>
Joint Energy-Based Model for Robust Speech Classification System Against Poisoning Attacks <i>Interspeech 2023</i>	<i>Dec. 2023</i>
HK-LegCoST : Leveraging Non-Verbatim Transcripts for Speech Translation <i>Interspeech 2023</i>	<i>Dec. 2023</i>
JHU IWSLT 2023 Multilingual Speech Translation System Description <i>IWSLT 2023</i>	<i>Jul. 2023</i>
Learning a Formality-Aware Japanese Sentence Representation	<i>Jan. 2023</i>

Other Projects

Continual Learning for Multilingual Automatic Speech Recognition <i>Continual Learning ; ASR</i>	JHU CLSP <i>Sep. 2021–May. 2022</i>
The Phonology of consonant voicing in Shanghainese	JHU, Term Paper <i>May. 2021</i>
Approximate solutions for the Multi-Commodity Flow problem : a survey	JHU, Term Paper <i>May. 2021</i>
Voice Control Rave Goggles <i>Speech Recognition, Arduino</i>	Oxford Hack 2017 <i>Nov. 2017</i>

Contribution to Open Source Projects

K2 Icefall, Lhotse : Added new recipe to speech toolkit.	<i>Jan 2024</i>
Adversarial Robustness Toolbox : Implemented clean label poisoning attacks in the audio domain.	<i>Feb 2024</i>

Experience

Work Experience.....

Graduate Research Assistant

Johns Hopkins University Center for Language and Speech Processing

Baltimore, Maryland

Sep. 2021–Present

Course Assistant : CS 601.645 Natural Language Processing

Johns Hopkins University

Baltimore, Maryland

Sep. 2022–Dec. 2022, Sep. 2023–Dec. 2023

Course Assistant : EN 520.666 Information Extraction from Speech and Text

Johns Hopkins University

Baltimore, Maryland

Sep. 2022–Dec. 2022, Sep. 2023–Dec. 2023

Architecture Intern

NVIDIA

Shanghai, China

Oct. 2019–Jan. 2021

Other.....

Conference Paper Reviewer

ICASSP, LREC-COLING

Jan. 2024–Present

Student Researcher

Frederick Jelinek Memorial Summer Workshop (JSALT)

Baltimore, Maryland

Jun. 2022–Aug. 2022

Director General

Oxford Global Education Development Ltd.

Oxford, United Kingdom

Feb. 2019–Dec. 2019

Topology Seminar TA

Harvard Summit for Young Leaders in China

Shanghai, China

Aug. 2018

Languages

Chinese(Mandarin), Shanghainese, English, French : Native or Fluent

Italian, German : Basic