

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 : Voice Conversion, TTS, Adversarial Robustness, Speech Recognition, Speech Translation

Education

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

Publications

HLTCOE JHU Submission to the Voice Privacy Challenge 2024 <i>Henry Li Xinyuan, Z Cai, A Garg, K Duh, Leibny Paola García, S Khudanpur, N Andrews, M Wiesner</i> Best Paper at Voice Privacy Challenge 2024	VPC 2024, SPSC 2024 Sep. 2024
Clean Label Attacks against SLU Systems <i>Henry Li Xinyuan, Sonal Joshi, Thomas Thebaud, Jesus Villalba, Najim Dehak, Sanjeev Khudanpur</i>	IEEE SLT 2024 Dec. 2024
Privacy versus Emotion Preservation Trade-offs in Emotion-Preserving Speaker Anonymization <i>Zexin Cai, Henry Li Xinyuan, A Garg, Leibny Paola García, K Duh, S Khudanpur, N Andrews, M Wiesner</i>	IEEE SLT 2024 Dec. 2024
Clustering Unsupervised Representations as Defense Against Poisoning Attacks <i>Thomas Thebaud, Sonal Joshi, Henry Li, Martin Sustek, Jesús Villalba, Sanjeev Khudanpur, Najim Dehak</i>	ASRU 2023 Dec. 2023
Joint Energy-Based Model for Robust Speech Classification System Against Poisoning Attacks <i>Martin Sustek, Sonal Joshi, Henry Li, Thomas Thebaud, Jesús Villalba, Sanjeev Khudanpur, Najim Dehak</i>	ASRU 2023 Dec. 2023
HK-LegCoST : Leveraging Non-Verbatim Transcripts for Speech Translation <i>Cihan Xiao, Henry Li Xinyuan, Jinyi Yang, Dongji Gao, Matthew Wiesner, Kevin Duh, Sanjeev Khudanpur</i>	Interspeech 2023 Dec. 2023
JHU IWSLT 2023 Multilingual Speech Translation System Description <i>Henry Li Xinyuan, Neha Verma, Bismarck Bamfo Odoom, Ujvala Pradeep, Matthew Wiesner, Sanjeev Khudanpur</i> Ranked 1st in the IWSLT ACL 60-60 initiative, unconstrained track	IWSLT 2023 Jul. 2023
JHU IWSLT 2024 Dialectal and Low-resource System Description <i>NR Robinson, K Sun, C Xiao, N Bafna, W Tan, H Xu, Henry Li Xinyuan, ...</i>	IWSLT 2024 Jul. 2024
Learning a Formality-Aware Japanese Sentence Representation <i>Henry Li Xinyuan, Ray Lee, Jerry Chen, Kelly Marchisio</i>	Jan. 2023

Other Projects

Submission to the Generative Design in Minecraft (GDMC)	GDMC 2022 May. 2022
The Phonology of consonant voicing in Shanghainese	JHU, Term Paper May. 2021
Approximate solutions for the Multi-Commodity Flow problem : a survey	JHU, Term Paper May. 2021
Voice Control Rave Goggles	Oxford Hack 2017 Nov. 2017

Contribution to Open Source Projects

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

Experience

Work Experience.....

Graduate Research Assistant	Baltimore, Maryland
Johns Hopkins University Center for Language and Speech Processing	Sep. 2021–Present
Course Assistant : CS 601.645 Natural Language Processing	Baltimore, Maryland
Johns Hopkins University	Sep. 2022–Dec. 2022, Sep. 2023–Dec. 2023
Course Assistant : EN 520.666 Information Extraction from Speech and Text	Baltimore, Maryland
Johns Hopkins University	Sep. 2022–Dec. 2022, Sep. 2023–Dec. 2023
Architecture Intern	Shanghai, China
NVIDIA	Oct. 2019–Jan. 2021

Other.....

Conference Paper Reviewer	
ICASSP, LREC-COLING, INTERSPEECH	Jan. 2024–Present
Student Researcher	Baltimore, Maryland
Frederick Jelinek Memorial Summer Workshop (JSALT)	Jun. 2022–Aug. 2022
Director General	Oxford, United Kingdom
Oxford Global Education Development Ltd.	Feb. 2019–Dec. 2019
Topology Seminar TA	Shanghai, China
Harvard Summit for Young Leaders in China	Aug. 2018

Languages

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