

YOU (NEIL) ZHANG

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RESEARCH INTERESTS: APPLIED MACHINE LEARNING IN SPEECH, ACOUSTICS, AND AUDIO SIGNAL PROCESSING

- * **Spatial Audio AI:** Sound Source Localization and Detection; Head-Related Transfer Function (HRTF) Personalization
- * **Security and Privacy in Speech & Audio:** Speech Anti-Spoofing, Singing Voice Deepfake Detection; Audio Watermarking
- * **Multimodal Learning:** Audio-Visual Segmentation, Diarization and Separation; Emotion Understanding and Rendering

EDUCATION

University of Rochester (UR) <i>Ph.D., Electrical and Computer Engineering</i>	Aug 2019 – May 2026 (Expected) <i>Rochester, NY</i>
University of Rochester (UR) <i>M.S., Electrical and Computer Engineering</i>	Aug 2019 – May 2021 <i>Rochester, NY</i>
University of California, Berkeley (UCB) <i>Bachelor's Reciprocity Student, Electrical Engineering and Computer Science</i>	Jan 2018 – Jan 2019 <i>Berkeley, CA</i>
University of Electronic Science and Technology of China (UESTC) <i>B.Eng., Automation</i>	Sep 2015 – Jun 2019 <i>Chengdu, Sichuan, China</i>

HONORS & AWARDS

IEEE WASPAA Best Student Paper Award (3 awarded out of 95 accepted papers) and Travel Grant (\$462) [link]	Fall 2025
Open Scholarship Award @ OSC Rochester (11 awardees in 2025 among all UR graduate students) [link]	Spring 2025
IEEE Signal Processing Society (SPS) Scholarship (45 international recipients in 2024) [link]	Fall 2024
National Institute of Justice (NIJ) Graduate Research Fellowship (24 national awardees in 2023) [link]	Fall 2023
Top 3% of all papers accepted at IEEE ICASSP 2023 (75 awarded out of 2722 accepted papers) [link]	Summer 2023
IEEE ICASSP Rising Stars in Signal Processing (24 international awardees in 2023) [link]	Summer 2023
Signal Processing at the ASA Student Paper Award - Second Place (\$200)	Spring 2023
Travel Grant from AS&E Graduate Student Association @ UR (\$500 each)	Fall 2021 & Summer 2022
Travel Grant from NSF-NRT AR/VR Training Program (\$1000)	Spring 2022
Outstanding Graduate @ UESTC (top 1% in the same year of graduation)	Spring 2019
Renmin Scholarship (top 3% in the same grade and major)	Fall 2016 & Fall 2017 & Fall 2018

ACADEMIC & INDUSTRIAL RESEARCH EXPERIENCE

Dolby Laboratories – Multimodal Experiences Lab **Jun 2025 – Present**
Senior Researcher, Supervisor: [Dr. Lie Lu](#) *Atlanta, GA*

- **Spatial Audio and Multimodal AI**
 - * Building spatial foundation models supporting sound localization, captioning, and separation
 - * Researching multimodal spatial audio understanding across audio and vision

University of Rochester – Audio Information Research Lab **Aug 2019 – Present**
PhD Candidate, Committee: [Prof. Zhiyao Duan](#) (Advisor), [Prof. Mujdat Cetin](#), [Prof. Jiebo Luo](#) *Rochester, NY*

- **Audio Deepfake Detection / Speaker Verification Anti-Spoofing**
 - * Generalization Ability: Developed **one-class learning** for better detecting unseen spoofing attacks; Extended the one-class learning idea with speaker attractor multi-center one-class learning to maintain speaker diversity in real speech
 - * Channel Robustness: Established that **channel effect** is a primary reason for cross-dataset performance degradation, and developed training strategies to improve the channel robustness for anti-spoofing
 - * Joint Optimization: Developed a **probabilistic fusion framework** for spoofing aware speaker verification
 - * Singing Voice Deepfake Detection (SVDD): Proposed novel SVDD task and identified challenges with the collected SingFake dataset; Organized SVDD 2024 Challenge at IEEE SLT2024 and MIREX@ISMIR2024

- * Algorithm Deployment: Impact real-world by working with [IngenID](#) to deploy the developed anti-spoofing algorithms
- **Personalized Head-Related Transfer Function (HRTF) Modeling for Spatial Audio**
 - * Established learning **neural field representations** to unify measured HRTFs databases for upsampling and personalization
 - * Developed a novel **position-dependent normalization strategy** that effectively mitigates the influence of cross-database differences to improve the learned representation further
 - * Built a deep learning system to predict the **spherical harmonic coefficients** from anthropometric measurements and scanned head geometry of subjects for HRTF personalization
- **Audio-Visual Rendering and Analysis**
 - * Emotional Talking Face Generation: Implemented and evaluated a baseline method and took charge of the subjective evaluation section, including the Amazon Mechanical Turk (AMT) setup, survey design, and data analysis
 - * Audio-Visual Speaker Diarization: Alleviated audio-visual **synchronization** and **off-screen speakers** problem
 - * Audio-Visual Deepfake Detection: Developed a multi-stream fusion framework complemented with **one-class learning** to improve the generalization ability for audio-visual deepfake detection
 - * Audio-Visual Segmentation: Proposed using language space as a bridge to unify audio-visual semantics and improved segmentation performance through cross-modal foundation models

Meta – *Reality Labs Research Audio*

May 2024 – Dec 2024

Research Intern (part-time since Sep 2024), Mentor: [Dr. Ishwarya Ananthabhotla](#)

Redmond, WA

- **Perceptual Head-Related Transfer Function (HRTF) Representation Learning**
 - * Proposed a **perception-informed HRTF representation learning** framework that integrates perceptual loss functions and analyzed the learned latent space through alignment with computational auditory models.

Microsoft – *Applied Sciences*

May 2023 – Aug 2023

Research Intern, Mentor: [Dr. Kazuhito Koishida](#)

Redmond, WA

- **Audio-Visual Segmentation by Prompting Segment Anything Model**
 - * Proposed a **prompting framework** to augment a vision foundation model (Segment Anything Model, SAM) with auditory understanding capabilities, enabling it to **simultaneously localize and segment** sounding sources in video frames.

Tencent America – *Tencent AI Lab*

May 2022 – Aug 2022

Research Intern, Mentor: [Dr. Shi-Xiong \(Austin\) Zhang](#)

Bellevue, WA

- **Multi-Channel Audio-Visual Speaker Diarization with Spatial Features**
 - * Proposed a probabilistic framework to incorporate the spatial information from multi-channel audio, speaker characteristics, and visual information to perform **speaker diarization**.

Bytedance / Tiktok – *Speech, Audio & Music Intelligence*

May 2021 – Aug 2021

Research Intern, Mentor: [Dr. Ming Tu](#)

Mountain View, CA

- **Audio-Visual Active Speaker Detection with Noisy Student Training**
 - * Implemented state-of-the-art active speaker detection methods and adapted them to real-world data on short-video platforms with a **semi-supervised learning** method, noisy student training.

Tencent – *Tencent Media Lab*

Jun 2019 – Aug 2019

Research Intern, Mentor: [Dr. Yannan Wang](#)

Shenzhen, Guangdong, China

- **Perceptual Loss Design for Mask-based Speech Enhancement**
 - * Improved the perceptual quality of the enhanced speech using **multi-task learning** with the implementation of several perception-inspired losses using **uncertainty**.

EXTERNAL GRANTS AWARDED

I contributed substantially to the **proposal development and writing** of the following externally awarded grants, including independently developing my own graduate fellowship proposal. I was typically the primary PhD student researcher on these projects.

Attributable Watermarking and Deepfake Detection for Responsible Audiobox (PI: [Zhiyao Duan](#))

Dec 2024 – Nov 2025

Meta Audiobox Responsible Generation Grant

\$50,000

Audio Deepfake Detection for Forensics and Security (Awarded Fellow: [You Zhang](#))

Jan 2024 – Jul 2025

National Institute of Justice (NIJ) Graduate Research Fellowship

\$64,003

Safeguarding Generative AI by Audio-Visual Deepfake Detection (PI: Zhiyao Duan) <i>National AI Research Resource (NAIRR) Pilot</i>	Jul 2024 – Jun 2025 10,000 GPU hours
Toward Noise Resilient Voice Spoofing Countermeasures (PI: Zhiyao Duan) <i>New York State Center of Excellence in Data Science</i>	Jan 2024 – Dec 2024 \$60,000
Training Audio-Visual Foundation Models to Capture Fine-Grained Dependencies (PI: Zhiyao Duan) <i>Microsoft Accelerate Foundation Models Research (AFMR) initiative</i>	Nov 2023 – Jun 2024 20,000 Azure credits
Developing and Deploying Spoofing Aware Speaker Verification Systems (PI: Zhiyao Duan) <i>New York State Center of Excellence in Data Science</i>	Jan 2023 – Dec 2023 \$59,989
Personalized Immersive Spatial Audio with Neural Field (PIs: Zhiyao Duan and Mark Bocko) <i>University of Rochester Goergen Institute for Data Science seed funding program</i>	Nov 2022 – Oct 2023 \$20,000

MEDIA COVERAGE

Why AI-generated audio is so hard to detect [link]	NBC News
News10NBC Investigates: Here's what happened when we did a deep fake on Berkeley Breaun's voice [link]	WHEC-TV Rochester
Audio deepfake detective developing new sleuthing techniques [link]	UR News Center

INVITED TALKS

[6] From Neural Fields to Perception-Informed Learning: Scalable and Perceptually Grounded HRTF Personalization [video] <i>C4DM Seminar Series, Queen Mary University of London, UK – Online</i>	Feb 2026
[5] Generalizing Audio Deepfake Detection <i>Carnegie Mellon University (CMU) Speech Lunch, USA – Online</i>	Nov 2024
[4] Audio Deepfake Detection [video] <i>Generative AI Spring School & Global AI Bootcamp, Ukraine – Online</i>	Mar 2024
[3] Improving Generalization Ability for Audio Deepfake Detection <i>Learning And Mining from Data (LAMDA) Lab, Nanjing University, China</i>	Dec 2023
[2] Generalizing Voice Presentation Attack Detection to Unseen Synthetic Attacks <i>ISCA Special Interest Group (SIG) - Security and Privacy in Speech Communication (SPSC) webinar – Online</i>	Feb 2023
[1] One-class Learning Towards Synthetic Voice Spoofing Detection <i>National Institute of Informatics (NII) Yamagishi Lab, Japan – Online</i>	Jan 2021

TUTORIALS

[3] Machine Learning for Acoustics (Co-presented with Ryan McCarthy , Samuel A. Verburg , Peter Gerstoft) <i>Acoustical Society of America (ASA) 187th Meeting, Online</i>	Nov 2024
[2] Multimedia Deepfake Detection (Co-presented with Menglu Li , Luchuan Song , Co-organized with Xiao-Ping Zhang , Chenliang Xu , Zhiyao Duan) <i>IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS), Taiwan – Online</i> <i>IEEE International Conference on Multimedia and Expo (ICME), Niagara Falls, Canada</i>	Aug 2025 Jul 2024
[1] Machine Learning for Personalized Head-Related Transfer Functions (HRTFs) Modeling in Gaming [slides] <i>AES 6th International Conference on Audio for Games, Tokyo, Japan</i>	Apr 2024

SPECIAL SESSIONS AND CHALLENGES CO-ORGANIZED

[3] Frontiers in Deepfake Voice Detection and Beyond <i>Special Session</i> <i>IEEE Automatic Speech Recognition and Understanding Workshop (ASRU), Honolulu, HI</i>	Dec 2025
[2] Singing Voice Deepfake Detection (SVDD) Challenge and Special Session <i>IEEE Spoken Language Technology Workshop (SLT), Macao, China</i>	Dec 2024
[1] Singing Voice Deepfake Detection (SVDD) Task in MIREX Challenge <i>International Society for Music Information Retrieval (ISMIR) Conference, San Francisco, CA</i>	Nov 2024

Book Chapters

[B1] **You Zhang**, Fei Jiang, Ge Zhu, Xinhui Chen[‡], and Zhiyao Duan. “Generalizing Voice Presentation Attack Detection to Unseen Synthetic Attacks and Channel Variation”, *Handbook of Biometric Anti-spoofing (3rd ed.)*, Springer, 2023. [\[DOI\]](#) [\[code\]](#)

Journals

[J4] Ryan A McCarthy, **You Zhang**, Samuel A Verburg, William F Jenkins, and Peter Gerstoft. “Machine Learning in Acoustics: A Review and Open-Source Repository”, *npj Acoustics*, vol. 1, pp. 18, 2025. [\[DOI\]](#) [\[arXiv\]](#) [\[code\]](#)

[J3] Xin Wang, Héctor Delgado, Hemlata Tak, Jee-weon Jung, Hye-jin Shim, Massimiliano Todisco, Ivan Kukanov, Xuechen Liu, Md Sahidullah, Tomi Kinnunen, Nicholas Evans, Kong Aik Lee, Junichi Yamagishi, Myeonghun Jeong, Ge Zhu, Yongyi Zang, **You Zhang**, Soumi Maiti, Florian Lux, Nicolas Müller, Wangyou Zhang, Chengzhe Sun, Shuwei Hou, Siwei Lyu, Sébastien Le Maguer, Cheng Gong, Hanjie Guo, Liping Chen, and Vishwanath Singh. “ASVspoof 5: Design, collection and validation of resources for spoofing, deepfake, and adversarial attack detection using crowdsourced speech”, *Computer Speech & Language*, vol. 95, pp. 101825, 2025. [\[DOI\]](#) [\[dataset\]](#)

[J2] Sefik Emre Eskimez, **You Zhang**, and Zhiyao Duan. “Speech Driven Talking Face Generation from a Single Image and an Emotion Condition”, *IEEE Transactions on Multimedia*, vol. 24, pp. 3480-3490, 2021. [\[DOI\]](#) [\[code\]](#) [\[project webpage\]](#)

[J1] **You Zhang**, Fei Jiang, and Zhiyao Duan. “One-class Learning Towards Synthetic Voice Spoofing Detection”, *IEEE Signal Processing Letters*, vol. 28, pp. 937-941, 2021. [\[DOI\]](#) [\[code\]](#) [\[video\]](#) [\[project webpage\]](#)

Peer-Reviewed Conferences and Workshops

[P21] Xuanjun Chen, Chia-Yu Hu, I-Ming Lin, Yi-Cheng Lin, I-Hsiang Chiu, **You Zhang**, Sung-Feng Huang, Yi-Hsuan Yang, Haibin Wu, Hung-yi Lee, and Jyh-Shing Roger Jang. “How Does Instrumental Music Help SingFake Detection?”, *accepted by IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2026. [\[arXiv\]](#)

[P20] Kun Zhou, **You Zhang**, Dianwen Ng, Shengkui Zhao, Hao Wang, and Bin Ma. “Emotional Dimension Control in Language Model-Based Text-to-Speech: Spanning a Broad Spectrum of Human Emotions”, *accepted by IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2026. [\[arXiv\]](#) [\[demo\]](#)

[P19] **You Zhang**, Andrew Franci, Ruohan Gao, Paul Calamia, Zhiyao Duan, and Ishwarya Ananthabhotla. “Towards Perception-Informed Latent HRTF Representations”, *Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA)*, 2025. [\[DOI\]](#) [\[arXiv\]](#) [\[video\]](#) [\[slides\]](#) [\[poster\]](#) **(I won the IEEE WASPAA Best Student Paper Award and a travel grant.)**

[P18] **You Zhang***, Baotong Tian* (EC), Lin Zhang, and Zhiyao Duan. “PartialEdit: Identifying Partial Deepfakes in the Era of Neural Speech Editing”, *Proc. ISCA Interspeech*, 2025. [\[DOI\]](#) [\[arXiv\]](#) [\[dataset\]](#) [\[demo page\]](#)

[P17] Kyungbok Lee[‡], **You Zhang**, and Zhiyao Duan. “Audio Visual Segmentation Through Text Embeddings”, *Proc. IEEE International Conference on Image Processing (ICIP)*, 2025. [\[DOI\]](#) [\[arXiv\]](#) [\[code\]](#)

[P16] Jiatong Shi, Hyejin Shim, Jinchuan Tian, Siddhant Arora, Haibin Wu, Darius Petermann, Jia Qi Yip, **You Zhang**, Yuxun Tang, Wangyou Zhang, Dareen Alharthi, Yichen Huang, Koichi Saito, Jionghao Han, Yiwen Zhao, Chris Donahue, and Shinji Watanabe. “VERSA: A Versatile Evaluation Toolkit for Speech, Audio, and Music”, *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL) – System Demonstration Track*, 2025. [\[DOI\]](#) [\[arXiv\]](#) [\[code\]](#)

[P15] **You Zhang**, Yongyi Zang, Jiatong Shi, Ryuichi Yamamoto, Tomoki Toda, and Zhiyao Duan. “SVDD 2024: The Inaugural Singing Voice Deepfake Detection Challenge”, *Proc. IEEE Spoken Language Technology Workshop (SLT)*, 2024. [\[DOI\]](#) [\[arXiv\]](#) [\[code\]](#)

[P14] Kyungbok Lee[‡], **You Zhang**, and Zhiyao Duan, “A Multi-Stream Fusion Approach with One-Class Learning for Audio-Visual Deepfake Detection”, *Proc. IEEE 26th International Workshop on Multimedia Signal Processing (MMSP)*, 2024. [\[DOI\]](#) [\[code\]](#)

[P13] Yongyi Zang[‡], Jiatong Shi, **You Zhang**, Ryuichi Yamamoto, Jionghao Han, Yuxun Tang, Shengyuan Xu, Wenxiao Zhao, Jing Guo, Tomoki Toda, and Zhiyao Duan. “CtrSVDD: A Benchmark Dataset and Baseline Analysis for Controlled Singing Voice Deepfake Detection”, *Proc. ISCA Interspeech*, 2024. [\[DOI\]](#) [\[code\]](#) [\[dataset\]](#)

[P12] Yongyi Zang^{*‡}, **You Zhang*** (EC), Mojtaba Heydari, and Zhiyao Duan. “SingFake: Singing Voice Deepfake Detection”, in *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2024. [\[DOI\]](#) [\[code\]](#) [\[project webpage\]](#)

[P11] Enting Zhou[‡], **You Zhang**, and Zhiyao Duan. “Learning Arousal-Valence Representation from Categorical Emotion Labels of Speech”, in *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2024. [\[DOI\]](#) [\[code\]](#)

[P10] Yutong Wen[‡], **You Zhang**, and Zhiyao Duan. “Mitigating Cross-Database Differences for Learning Unified HRTF Representation”, in *Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA)*, 2023. [\[DOI\]](#) [\[code\]](#) [\[video\]](#)

[P9] Yongyi Zang[‡], **You Zhang**, and Zhiyao Duan. “Phase Perturbation Improves Channel Robustness for Speech Spoofing Countermeasures”, in *Proc. ISCA Interspeech*, pp. 3162-3166, 2023. [\[DOI\]](#) [\[code\]](#)

[P8] Siwen Ding[‡], **You Zhang**, and Zhiyao Duan. “SAMO: Speaker Attractor Multi-Center One-Class Learning for Voice Anti-Spoofing”, in *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2023. [\[DOI\]](#) [\[code\]](#) [\[video\]](#)

[P7] **You Zhang**, Yuxiang Wang, and Zhiyao Duan. “HRTF Field: Unifying Measured HRTF Magnitude Representation with Neural Fields”, in *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2023. [\[DOI\]](#) [\[code\]](#) [\[video\]](#)
(Recognized as one of the top 3% of all papers accepted at IEEE ICASSP 2023)

[P6] Abudukelimu Wuerkaixi[‡], Kunda Yan, **You Zhang**, Zhiyao Duan, and Changshui Zhang. “DyViSE: Dynamic Vision-Guided Speaker Embedding for Audio-Visual Speaker Diarization”, in *Proc. IEEE 24th International Workshop on Multimedia Signal Processing (MMSP)*, pp. 1-6, 2022. [\[DOI\]](#) [\[code\]](#)

[P5] Abudukelimu Wuerkaixi[‡], **You Zhang**, Zhiyao Duan, and Changshui Zhang. “Rethinking Audio-visual Synchronization for Active Speaker Detection”, in *Proc. IEEE 32nd International Workshop on Machine Learning for Signal Processing (MLSP)*, 2022. [\[DOI\]](#)[\[code\]](#)

[P4] **You Zhang**, Ge Zhu, and Zhiyao Duan. “A Probabilistic Fusion Framework for Spoofing Aware Speaker Verification”, in *Proc. ISCA The Speaker and Language Recognition Workshop (Odyssey)*, pp. 77-84, 2022. [\[DOI\]](#) [\[code\]](#)

[P3] Xinhui Chen^{*‡}, **You Zhang*** (EC), Ge Zhu*, and Zhiyao Duan. “UR Channel-Robust Synthetic Speech Detection System for ASVspoof 2021”, in *Proc. ISCA ASVspoof 2021 Workshop*, pp. 75-82, 2021. [\[DOI\]](#) [\[code\]](#) [\[video\]](#)

[P2] **You Zhang**, Ge Zhu, Fei Jiang, and Zhiyao Duan. “An Empirical Study on Channel Effects for Synthetic Voice Spoofing Countermeasure Systems”, in *Proc. ISCA Interspeech*, pp. 4309-4313, 2021. [\[DOI\]](#) [\[code\]](#) [\[dataset\]](#) [\[video\]](#)

[P1] Yuxiang Wang, **You Zhang**, Zhiyao Duan, and Mark Bocko. “Global HRTF Personalization Using Anthropometric Measures”, in *Proc. Audio Engineering Society (AES) 150th Convention*, 2021. [\[DOI\]](#) [\[code\]](#) [\[video\]](#)

Technical Reports

[T3] **You Zhang**, Yongyi Zang, Jiatong Shi, Ryuichi Yamamoto, Jionghao Han, Yuxun Tang, Tomoki Toda, and Zhiyao Duan. “SVDD Challenge 2024: A Singing Voice Deepfake Detection Challenge Evaluation Plan”, 2024. [\[link\]](#) [\[challenge webpage\]](#)

[T2] **You Zhang***, Ge Zhu*, Julia M. Soto*, Samantha E. Lettenberger*(EC), Maryam Zafar, Peggy Auinger, Abigail Arky, Emma Waddell, Kelsey Spear, Rajbir Toor, Grace Nkrumah, Emily A. Hartman, Jacob Epifano, Michael J. Hasselberg, Anton P. Porsteinsson, Rich Christie, Zhiyao Duan, Aaron J. Masino, and E. Ray Dorsey, “Words Spoken Daily among Individuals with Neurodegenerative Conditions: A Pilot Study”, 2023. [\[link\]](#)

[T1] **You Zhang**, Ge Zhu, and Zhiyao Duan. “UR Spoofing Aware Speaker Verification System for the SASV Challenge”, 2022. [\[link\]](#)

Conference Abstracts

[C4] **You Zhang**, Andrew Franci, Ruohan Gao, Paul Calamia, Zhiyao Duan, and Ishwarya Ananthabhotla. “Perception-Informed Alignment of Learning Personalized Head-Related Transfer Function Latent Representations”, in *Acoustical Society of America (ASA) 189th Meeting—joint with the Acoustical Society of Japan*, 2025. (Invited Paper)

[C3] **You Zhang**, Yuxiang Wang, Mark Bocko, and Zhiyao Duan. “Grid-Agnostic Personalized Head-Related Transfer Function Modeling with Neural Fields”, in *Acoustical Society of America (ASA) 184th Meeting*, 2023. [\[DOI\]](#) (Recognized by Signal Processing at the ASA Student Paper Award - Second Place)

[C2] Samantha E. Lettenberger, Maryam Zafar, Julia M. Soto, **You Zhang**, Ge Zhu, Aaron J. Masino, Grace Nkrumah, Emma Waddell, Kelsey Spear, Abigail Arky, Rajbir Toor, Emily Hartman, Jacob Epifano, Rich Christie, Zhiyao Duan, and Ray Dorsey. “Words Spoken Daily: A Novel Measure of Cognition”, in *International Congress of Parkinson’s Disease and Movement Disorders (MDS)*, 2023. [\[DOI\]](#)

[C1] Yuxiang Wang, **You Zhang**, Zhiyao Duan, and Mark Bocko. “Employing Deep Learning Method to Predict Global Head-Related Transfer Functions from Scanned Head Geometry”, in *Acoustical Society of America (ASA) 181st Meeting*, 2021. [\[DOI\]](#)

PROFESSIONAL SERVICES

Leadership

- IEEE ICASSP 2024 Student Volunteer Spring 2024
- Executive Committee Member for AR/VR PhD training program Fall 2023 – Spring 2024
- Western New York AR/VR Mini-Conference Co-chair [\[link\]](#) Spring 2022 & Spring 2023
- Diversity, Equity, and Inclusion (DEI) Committee Member for ECE Department @ UR Fall 2022 – Spring 2023
- IEEEExtreme 16.0 Ambassador [\[link\]](#) Fall 2022

Reviewer

- **Journals:**

* IEEE Transactions on Audio, Speech, and Language Processing (TASLP)	2023-2026
* IEEE Transactions on Multimedia (TMM)	2025-2026
* IEEE Transactions on Information Forensics and Security (TIFS)	2026
* IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)	2024
* IEEE Journal of Selected Topics in Signal Processing (JSTSP)	2024
* IEEE Signal Processing Letters	2024-2026
* IEEE Open Journal of Signal Processing (OJSP)	2022-2025
* Transactions of the International Society for Music Information Retrieval (TISMIR)	2022-2026
* ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)	2024-2025
* EURASIP Journal on Information Security	2025-2026
* EURASIP Journal on Audio, Speech, and Music Processing	2024
* EURASIP Journal on Advances in Signal Processing	2023-2025
* Computer Speech & Language	2024
* ACM Computing Surveys	2024
* Neural Networks	2023-2025
* IEEE Access	2023-2026
* IEEE Transactions on Computational Imaging (TCI)	2021
• Peer-Reviewed Conferences and Workshops:	
* IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)	2024-2026
* ISCA Interspeech	2023-2025
* IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA)	2025
* IEEE Spoken Language Technology Workshop (Meta-reviewer for SVDD special session)	2024
* IEEE Workshop on Automatic Speech Recognition and Understanding (ASRU)	2025
* ACM Multimedia	2025
* Audio Engineering Society (AES) 152nd - 158th Convention	2022-2025
* International Joint Conference on Neural Networks (IJCNN)	2025
* ISCA Automatic Speaker Verification and Spoofing Countermeasures (ASVspoof) Workshop	2024
* ISCA Symposium on Security and Privacy in Speech Communication	2024-2025
* CVPR Multimodal Learning and Applications Workshop (MULA)	2023-2025
* IJCAI Workshop on Deepfake Audio Detection and Analysis (DADA)	2023

Membership

• IEEE Signal Processing Society (SPS) Student Member	2021-2026
• IEEE Graduate Student Member	2021-2026
• Acoustical Society of America (ASA) Student Member	2023-2025
• Association for Computing Machinery (ACM) Student Member	2022-2025
• Audio Engineering Society (AES) Student Member	2019-2025

SKILLS

Programming: Python (PyTorch, Numpy, Pandas), MATLAB, Java, R, VHDL, C, \LaTeX , Markdown

Platforms: Linux, Git, Jupyter Notebook, Slurm, Visual Studio Code, PyCharm, IntelliJ, Xilinx Vivado, Multisim

Languages: English (Fluent), Mandarin Chinese (Native)