Shuo Zhang

Skills

Expertise areas	Python, Java, R, Swift, Matlab; tensorflow, pytorch, praat Machine learning, deep learning, NLP, audio and music computing
Natural languages	Mandarin (native), English (fluent), Spanish, Japanese, French Employment
 Senior machine learning Focus on machine learning Use deep learning and I localization, voice energy Spearheaded and led hithing Lead and oversee deep Hire and supervise emp 	Tachine Learning Research Engineer 07/2017 - present research engineer in Bose Research (NLP), speech and audio signal processing P to solve problems such as audio understanding and classification, sound rediction, audio super resolution using microphone and recording data a-impact deep learning for audio signal processing projects arning work in interdisciplinary research projects in teams yees, interns and co-ops in machine learning for audio and NLP Project Management) by Scrum Alliance
 Music Technology Grou CompMusic Project (Congresser Council, PI: Presearch Council, PI: Presearch in National Presearch in National Presearch 	Spain), Researcher Collaborator
Contribute to researchContributed to high-imResearch experience in	O Research Assistant
	Professional Services
EMNLP2022, IEEE-MMS ICASSP2022, ARR2022, ACMMM-Asia2021, EUS EACL2021, EUSIPCO202	al and conference publications)
AI Accelerator Institute a Mentor, FourthBrain.ai, a Mentor, NAACL 2019	mbassador (2020-2021) artup backed by Andrew Ng (2020-2021) ons, DCASE Workshop conference 2021, 2022
	Selected Patents
Bose Corp., Co-inventor . Spatialized Voice Assista	
- /	AR Content Harvesting and Information Extraction, US20200278831

Hearing Augmentation and Wearable System with Localized Feedback US2021049008

Bose Corp., Co-inventor
Bose Corp., Co-inventor
Bose Corp., Co-inventor
Invited Talks & Conference Tutorials
Invited talks
Conference tutorials, co-instructor
Academics
Georgetown University, Washington DC
University of Pittsburgh, <i>Pittsburgh</i> , <i>PA</i>
Peking University, Beijing, China
Publications
Peer-reviewed publications (selected)

- (2017) Zhang, S. Rank Lyrics: A ranking-based approach to automatic song lyrics generation. Poster at MASCSLL'17 .
- (2017) Zhang, S., Zeldes, A. GitDOX: A Linked Version Controlled Online XML Editor for Manuscript Transcription. Proc. of FLAIRS 30 (published by AAAI Press).
- (2016) Zhang, S. Mining linguistic tone patterns with symbolic representation. Proc. of the 14th SIGMORPHON at ACL 2016.
- (2016) Zeldes, A, Zhang, S. When Schemas Change Rules Help: A Configurable Approach to Coreference beyond OntoNotes. Proc. of CORBON at NAACL 2016.
- (2015) Zhang, S., Caro, R., Serra, X. Predicting pairwise pitch contour relations based on linguistic tone information in Beijing opera singing. Proc. of ISMIR 2015.
- (2014) Zhang, S, Caro, R, Serra, X,. Study of the similarity between linguistic tones and melodic pitch contours in Beijing Opera singing. Proc. of ISMIR 2014.
- (2010) Zhang, S. Speech-to-Song Illusion: Evidence from MC. Sino-European Winter School of Logic, Language, and Computation.