Yufeng Yin

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Education

Ph.D. in Computer Science, University of Southern California, 2019 to 2024 (expected)
B.E. in Computer Science and Technology, Tsinghua University, 2015 to 2019
B.S. in Pure and Applied Mathematics (Second Major), Tsinghua University, 2016 to 2019

Publications

[1] Suping Zhou, Jia Jia, **Yufeng Yin**, Xiang Li, Yang Yao, Ying Zhang, Zeyang Ye, Kehua Lei, Yan Huang, Jialie Shen. Understanding the Teaching Styles by an Attention based Multi-task Cross-media Dimensional Modeling. In the Proceedings of the 27th ACM International Conference on Multimedia (**ACM MM'19**)
[2] Jia Jia, Suping Zhou, **Yufeng Yin**, Boya Wu, Wei Chen, Fanbo Meng and Yanfeng Wang. Inferring Emotions From Large-scale Internet Voice Data. IEEE Transactions on Multimedia, 2018 (**TMM'18**)
[3] Suping Zhou, Jia Jia, Qi Wang, Yufei Dong, **Yufeng Yin** and Kehua Lei. Inferring Emotion from Conversational Voice Data: A Semi-supervised Multi-path Generative Neural Network Approach. In the Proceedings of the 32nd AAAI Conference on Artificial Intelligence (**AAAI'18**)
[4] Sherry Ruan, Jiayu He, Rui Ying, Jonathan Burkle, Dunia Hakim, Anna Wang, **Yufeng Yin**, Lily Zhou, Qianyao Xu, Abdallah AbuHashem, Griffin Dietz, Elizabeth L Murnane, Emma Brunskill, James A Landay. Supporting children's math learning with feedback-augmented narrative technology. In Proceedings of the 19th Interaction Design and Children Conference (**IDC'20**)
[5] **Yufeng Yin**, Baiyu Huang, Yizhen Wu, Mohammad Soleymani. Speaker-Invariant Adversarial Domain Adaptation for Emotion Recognition. In Proceedings of the 2020 International Conference on Multimodal Interaction (**ICMI'20**)

Research Experience

University of Southern California Intelligent Human Perception Lab, 2019 - now
Advisor: Prof. Mohammad Soleymani
Speaker-Invariant Adversarial Domain Adaptation for Emotion Recognition, 2020

- Studied the unsupervised domain adaptation problem on emotion recognition with multimodal data
- Proposed Speaker-Invariant Domain-Adversarial Neural Network to reduce both the domain bias and the speaker bias
- Authored a paper published in **ICMI'20**

Tsinghua University Human-Computer Speech Interaction Research Group, 2016 to 2019
Advisor: Prof. Jia Jia
Understanding the Teaching Styles by an Attention based Multi-task Cross-media Dimensional Modeling, 2018

- Established a fully-annotated voice data set (4,451 utterances) with pleasure and arousal values
- Created a two-dimensional Teaching Style Semantic Space (TSSS) to determine teachers' teaching styles
- Proposed a multi-task cross-media model to map acoustic features to coordinates on the TSSS
- Co-authored a paper published in **ACM MM'19**

Inferring Emotions from Large-scale Internet Voice Data, 2017 to 2018

- Employed DNN and LSTM with autoencoders to infer emotions from large-scale internet voice data
- Processed data, created neural networks, conducted experiments and edited the paper
- Co-authored a paper published in **TMM'19**

Inferring Emotion from Conversational Voice Data: A Semi-supervised Multi-path

Generative Neural Network Approach, 2017

- Proposed a novel model to infer emotion from conversational voice data
- Collected over 24,000 real-world utterance, processed data and edited paper
- Co-authored a paper published in **AAAI'18**

Stanford University Human-Computer Interaction Research Group, 2018
Advisors: Prof. James Landay, Prof. Emma Brunskill
The Smart Primer, 2018

- A personal tutor for children that uses narrative and embedded physical world activities to enhance learning
- **Stanford University Undergraduate Visiting Research Program (UGVR)**
- Created a chat bot and a quiz bot to guide users
- Worked as the architect of the project for both frontend and backend coding

Work Experience

Fall 2018: Teaching Assistant for Principles of Signal Processing

- Tsinghua University
- Helped Prof. Jia to prepare lessons, especially those including mathematical derivations
- Participated in editing slides, answering students' questions and correcting homework

Summer 2018: Research Assistant

- Stanford University Human-Computer Interaction Research Group
- Developed an educational software on tablets named the Smart Primer

Supervisors: Prof. James Landay, Prof. Emma Brunskill

Awards & Honors

Tsinghua University Department of Computer Science and Technologies Outstanding Graduates, 2019
Tsinghua University Academic Excellence Scholarship (Top 10% of Department), 2017
Tsinghua University Comprehensive Excellence Scholarship (Top 5% of Department), 2016

Skills & Others

Languages: Mandarin, English.
Programming Languages: C, C++, Python, Java, JavaScript, R, HTML, Assembly, LaTeX, Matlab, Qt
Research Skills: vim, git, bash, cmake, gcc, gdb
Software: Visual Studio, Android Studio, Eclipse