YIQIN ZHAO

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EDUCATION

Worcester Polytechnic Institute, Worcester, MA, USA *August 2019 - Present*
M.S. in Computer Science

Tianjin Normal University, Tianjin, China *September 2015 - June 2019*
B.Eng. in Software Engineering

RESEARCH INTERESTS

- **Mobile Augmented Reality System:** mobile AR lighting estimation, mobile AR system design

- **Computer Graphics & Vision:** photorealistic AR rendering, real world 3D scene understanding

EXPERIENCE

Worcester Polytechnic Institute, Worcester, MA, USA *August 2019 - Present*
Research Assistant, Advisor: Prof. Tian Guo

- *Research topic:* lighting estimation for mobile augmented reality

- Developed resource efficient lighting estimation deep learning models.

- Implemented data processing pipeline for large scale point cloud data.

- Implemented edge assisted inference system for mobile AR lighting estimation.

Baidu Inc., Beijing, China *July, 2018 - September, 2018*
Software Engineering Intern

- *Job description:* mobile application front-end development for Baidu smart speaker (like Amazon Alex) with hybrid web technologies.

- Closely worked with UI designers and component infrastructure team for designing and developing applications and user interface component library.

- Designed and implemented internal tools for improving testing and debugging workflow efficiency.

Tianjin Normal University, Tianjin, China *December 2016 - May 2018*
Undergraduate Research Assistant, Advisor: Prof. Ziping Zhao

- *Research topic*: affective computing and applied machine learning.

- Designed novel deep neural networks that effectively learns the spatial and temporal features of human emotions from speech audio spectrogram signals.

PUBLICATIONS

- **Zhao, Yiqin**, and Tian Guo. "**PointAR: Efficient Lighting Estimation for Mobile Augmented Reality.**" In proceedings of the 16th European Conference On Computer Vision (ECCV'20). 2020.

- **Zhao, Yiqin**, and Tian Guo. "**PointAR: Efficient Lighting Estimation for Mobile Augmented Reality.**" The 21st International Workshop on Mobile Computing Systems and Applications (HotMobile 2020) poster.

- Ziping Zhao, Zhongtian Bao, **Yiqin Zhao**, Zixing Zhang, Nicholas Cummins, Zhao Ren, Björn W. Schuller. **Exploring Deep Spectrum Representations via Attention-Based Recurrent and Convolutional Neural Networks for Speech Emotion Recognition**. IEEE Access 7: 97515-97525 (2019)

- Ziping Zhao, **Yiqin Zhao**, Zhongtian Bao, Haishuai Wang, Zixing Zhang, and Chao Li. **Deep Spectrum Feature Representations for Speech Emotion Recognition**, ASMMC-MMAC'18

- Ziping Zhao, Yu Zheng, Zixing Zhang, Haishuai Wang, **Yiqin Zhao**, Chao Li. **Exploring Spatio-Temporal Representations by Integrating Attention-based Bidirectional-LSTM-RNNs and FCNs for Speech Emotion Recognition**, INTERSPEECH 2018

SKILLS

- Proficient in system programming with Python, JavaScript, C# and Swift

- Proficient in data science technologies like: NumPy, Numba, PyTorch and TensorFlow

- Familiar with modern GPU programming like: WebGL, shader and CUDA

AWARDS AND SCHOLARSHIPS

China Collegiate Computing Contest, Apple Inc., China
This contest is held by Tsinghua University, Zhejiang University and Apple, Inc China to students from the great China area for developing and designing innovative mobile applications.

- 2017 national third prize, October 2017, top 6%   *October 2017*

- 2016 national third prize, October 2016, top 10%   *October 2016*

Wang Kechang Culture and Technology Innovation Scholarship, Tianjin Normal University
Fewer than 1%   *September 2018*

Tianjin Normal University Scholarship , Tianjin Normal University

- 2018 - 2019 academic first grade scholarship, top 10%   *May 2019*

- 2017 - 2018 academic year top grade scholarship, top 5%   *September 2018*

- 2016 - 2017 academic year second grade scholarship, top 20%   *September 2017*

- 2015 - 2016 academic year first grade scholarship, top 10%   *September 2016*

LEADERSHIP EXPERIENCE

Founder and President of TJNU iOS Club, Tianjin Normal University   *2017 - 2018*

- Organized biweekly mobile application development and design workshops on campus.

- Led collaborative student activities with Apple Inc. at the local Apple Store.

- Led team to attend national iOS Club summer and winter camps held by Apple Inc.

- Developed the Tianjin Normal University iOS Club to be the largest and most influential student technology club in the college.