# 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, efficient deep learning for AR, mobile system design for AR
- Computer Graphics and Computer Vision: Realistic AR rendering, real world 3D understanding, 3D reconstruction

# **EXPERIENCE**

## Worcester Polytechnic Institute, Worcester, MA, USA

August 2019 - Present

Research Assistant, Advisor: Prof. Tian Guo

- Develop tools and deep learning models on large scale point cloud data.
- Design efficient and accurate deep learning models for indoor AR lighting estimation.
- Build system for deep learning based on-device mobile AR lighting estimation inference.

# $\bf Baidu\ Inc.,$ Beijing, China

July, 2018 - September, 2018

Software Engineering Intern

- Develop mobile applications for Baidu smart speaker (Amazon Alex like) with modern hybrid web technologies and Android toolchain.
- Closely worked with visual designers for designing and developing user interface component library.

# Tianjin Normal University, Tianjin, China

December 2016 - May 2018

Research Assistant, Advisor: Prof. Ziping Zhao

- Focused on applied machine learning and affective computing.
- Designed and implemented a novel deep neural network that effectively learns the spatial and temporal features of human speech emotion from speech audio spectrogram signal.

#### **PUBLICATIONS**

- Yiqin Zhao, Tian Guo, PointAR: Efcient Lighting Estimation for Mobile Augmented Reality. 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 Python programming
- Proficient in common data science frameworks like: NumPy, Numba, PyTorch
- Proficient in JavaScript programming
- Proficient in modern web frameworks like React.js, Vue.js
- Familiar with Unity3D/Unreal Engine 4
- Familiar with Swift/C# Programming
- Familiar with C/C++ programming

#### AWARDS AND SCHOLARSHIPS

# China Collegiate Computing Contest, Apple Inc., China

This contest is held by Tsinghua University, Zhejiang University and Apple, Inc China to all 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%

# Tianjin Normal University Scholarship, Tianjin Normal University

$\bullet~2018$ - 2019 academic first grade scholarship, top $10\%$	May 2019
$\bullet~2017$ - 2018 academic year top grade scholarship, top $5\%$	$September\ 2018$
$\bullet~2016$ - 2017 academic year second grade scholarship, top $20\%$	September 2017
$\bullet~2015$ - 2016 academic year first grade scholarship, top $10\%$	September 2016

#### **LEADERSHIP**

### Founder and President of TJNU iOS Club, Tianjin Normal University

2017 - 2018

- Held biweekly application development and design discussions 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.
- Grew the Tianjin Normal University iOS Club to be the largest and most influential student technology club on campus.