# **ZHENYU TANG**

Greenbelt, MD 20770 ♦ zhy@cs.umd.edu ♦ (404) 200-4217 ♦ <a href="http://www.cs.umd.edu/~zhy">http://www.cs.umd.edu/~zhy</a>

#### **EDUCATION**

#### **University of Maryland - College Park**

PhD in Computer Science, supervised by **Dinesh Manocha** 

College Park, MD, USA Aug. 2018 – Present (2022 expected)

**Zhejiang University** (Chu Kochen Honors College)

Bachelor in Engineering (with Honor), Opto-Electronic Science and Engineering

Cumulative GPA: 3.73/4.0, Major GPA: 3.83/4.0 (top 5%)

Hangzhou, Zhejiang, China Sept. 2013 – Jul. 2017

### **RESEARCH INTERESTS**

Computer graphics, Audio-visual system, Virtual/Augmented reality, Machine intelligence, Speech technology

#### **WORK EXPERIENCE**

Adobe Systems Seattle, WA

Creative Intelligence Lab Intern in Audio Group

May 2019 – Aug. 2019

- Devised new methods for synthesizing virtual sound that blends with real-world sound in augmented reality
- Submitted a research paper and a patent application for our original algorithm
- Integrated our learning-based acoustic analyzer onto Adobe's Sensei cloud machine learning framework

#### **PUBLICATIONS**

### Regression and Classification for Direction-of-Arrival Estimation with

Convolutional Recurrent Neural Networks

Zhenyu Tang, John D. Kanu, Kevin Hogan, Dinesh Manocha

Proceedings of INTERSPEECH 2019

Sept. 2019

#### Receiver placement for speech enhancement using sound propagation optimization

Nicolas Morales, **Zhenyu Tang**, Dinesh Manocha

Applied Acoustics Volume 155, Pages 53-62

Dec. 2019

### Dynamic Sound Field Synthesis for Speech and Music Optimization

Zhenyu Tang, Nicolas Morales, Dinesh Manocha

Proceedings of the 2018 ACM on Multimedia Conference. ACM, 2018

Oct. 2018

### Noise Field Control using Active Sound Propagation and Optimization

**Zhenvu Tang**. Dinesh Manocha

Sept. 2018

Acoustic Signal Enhancement (IWAENC), 2018 IEEE International Workshop on. IEEE, 2018

#### LightPainter: Creating Long Exposure Imagery from Videos

Yi-Ling Chen, Zhenyu Tang, Kwan-Liu Ma

Jul. 2018

*IEEE computer graphics and applications* 38, no. 4 (2018)

#### HeadPager: Page Turning with Computer Vision based Head Interaction

Zhenyu Tang, Chenyu Yan, Sijie Ren, Huagen Wan

Sept. 2016

13th Asian Conference on Computer Vision (ACCV'16)

#### **MANUSCRIPTS**

Low-frequency Compensated Synthetic Impulse Responses for Improved Far-field Speech Recognition

Zhenyu Tang, Hsien-Yu Meng, Dinesh Manocha

Oct. 2019

https://arxiv.org/abs/1910.10815

July. 2019

## **TECHNICAL STRENGTHS**

- **Programming:** C/C++, Python, Matlab, R, bash scripting
- Software and Tools: Pytorch/tensorflow, Kaldi, Blender, Qt
- Miscellaneous:, LaTex, parallel computing, OpenGL/CV, GLSL