

## Yuzhong Huang

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CONTACT INFORMATION      4676 Admiralty Way, Suite 1001, Room 950      Phone: (213) 284-4654  
Marina Del Rey, CA 90292      Email: yuzhongh@usc.edu

RESEARCH INTERESTS      Natural Language Processing, Graph Embedding, Representation Learning

EDUCATION      **University of Southern California (USC)**

Ph.D. in Computer Science. Advisor: Fred Morstatter.      *Aug 2019 - Present*

M.S. in Electrical Engineering. Advisor: C.-C. Jay Kuo.      *Aug 2017 - May 2019*

**Zhejiang University, China**

B.Eng. in Computer Science.      *Aug 2012 - Jun 2016*

**Singapore University of Technology and Design, Singapore**

Exchange Student      *Sep 2014 - Dec 2014*

PUBLICATIONS      **Learning Where to Cut from Edited Videos**

**Yuzhong Huang**, Xue Bai, Oliver Wang, Fabian Caba, Aseem Agarwala  
CVEU workshop at ICCV 2021. Work done during Adobe internship.

**Graph Embedding with Personalized Context Distribution**

**Yuzhong Huang**, Di Huang, Zihao He, Kexuan Sun, Sami Abu-El-Haija, Bryan Perozi, Kristina Lerman, Fred Morstatter, Aram Galstyan

Oral Presentation, The Fifth International Workshop on Deep Learning for Graphs

**Anchor Attention for Hybrid Crowd Forecasts Aggregation**

**Yuzhong Huang**, Andrés Abeliuk, Fred Morstatter, Pavel Atanasov, Aram Galstyan  
Extended Abstract, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS) 2020

**Statistical Equity: A Fairness Classification Objective**

Ninareh Mehrabi, **Yuzhong Huang**, Fred Morstatter  
EAAMO 2021.

**On extended long short-term memory and dependent bidirectional recurrent neural network**

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo  
Neurocomputing, 2019, Vol.356, p.151-161

**Efficient Text Classification Using Tree-structured Multi-linear Principal Component Analysis**

Yuanhang Su, **Yuzhong Huang**, and C.-C. Jay Kuo  
2018 24th International Conference on Pattern Recognition (ICPR)

**InteriorNet: Mega-scale multi-sensor photo-realistic indoor scenes dataset**

Wenbin Li, Sajad Saeedi, John McCormac, Ronald Clark, Dimos Tzoumanikas, Qing Ye, **Yuzhong Huang**, Rui Tang, Stefan Leutenegger  
2018 British Machine Vision Conference (BMVC)

## EXPERIENCE

### **Adobe, Inc**

*Research Intern*

*May 2020 - Aug 2020*

- Working on video understanding and temporal video segmentation

### **Information Sciences Institute, USC**

*Research Assistant*

*Jun 2018 - Present*

- Propose Anchor Attention, an attention based model for sequence summary. Apply it on forecasts aggregation task, integrate into SAGE project. Implemented with Tensorflow.
- Propose Decomposed Word Embedding by Topic Modeling, an embedding method that use a mixture of topic vectors as word embedding. In-Progress.

### **Media Communications Lab, USC**

*Student worker*

*Sep 2017 - Jun 2018*

- Propose ELSTM, a variant of LSTM cell with extended memory capacity.
- Propose TMPCA, a tree structure accelerated PCA for text classification.

### **Hangzhou Qunhe Information Technology**

*Software Engineer*

*Jul 2016 - Jul 2017*

- Integrate image super resolution into a CUDA-based GPU renderer engine.
- Propose an albedo map guided image super resolution method to improve texture detail quality.
- Implement steganography in renderer engine for copyright protection.

### **Digital Media Computing & Design Lab, Zhejiang University**

*Member*

*Dec 2015 - July 2016*

- Work on knowledge base population and event extraction.
- Participate in 2017 NIST Text Analysis Conference, Knowledge Base Population Competition. Ranked 3rd out of 7 teams.

### **Linux User Group, Zhejiang University**

*Co-founder, maintainer*

*May 2013 - July 2014*

- Setup open source mirror in Zhejiang University.
- Linux system maintenance, upgrade and synchronization.