

# CHENGLEI WU

PhD Student, Lab of Multimedia and Networking, Tsinghua University

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## EDUCATION

Ph.D. in Computer Science

**Tsinghua University**

Sept 2018 - Now

Beijing

M.En. in Computer Technology

**Tsinghua University**

Sept 2015 - June 2018

Beijing

B.Sc. in Computer Science

**Sun Yat-Sen University**

Sept 2011 - June 2015

Guangzhou, Guangdong

## EXPERIENCE

Sogou

**AI Host Group**

Sept 2019 - Oct 2019

Beijing

- PhD student summer practice
- GAN based face swapping and editing

Alibaba Aliyun

**AIIRC**

Dec 2017 - Dec 2018

Hangzhou

- Cooperation project on SMS application, Dingding
- Real-time communication optimization

SenseTime

**Human Cyber Physical Intelligence Integration Group**

July 2017 - Sept 2017

Beijing

- Big data platform for content-based recommendation

## AWARD



**First prize scholarship**

Tsinghua University, 2016 and 2017



**First prize People's Daily scholarship**

Tsinghua University, 2018

## RESEARCH INTEREST

Algorithm

RL

Imitation Learning

Spherical Convolution

Online streaming optimization

360 video streaming

RL based ABR

Emerging multimedia application

360 video cinematography

## SKILLS

Programming Languages

Python

C/C++

Deep Learning Platform

Pytorch

## LANGUAGES

Chinese



English



## PUBLICATIONS

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### Conference Proceedings

- **Wu, Chenglei**, Ruixiao Zhang, Zhi Wang, and Lifeng Sun. “A Spherical Convolution Approach for Learning Long Term Viewport Prediction in 360 Immersive Video”. *Thirty-Fourth AAAI Conference on Artificial Intelligence*. New York, NY, USA, 2020. Print. **AAAI '20**.
  - Huang, Tianchi, Rui-Xiao Zhang, Xin Yao, **Chenglei Wu**, and Lifeng Sun. “Being more Effective and Interpretable: Bridging the Gap Between Heuristics and AI for ABR Algorithms”. *Proceedings of the ACM SIGCOMM 2019 Conference Posters and Demos*. ACM. 2019. 12–14. Print. **SIGCOMM '19 P&D**.
  - Huang, Tianchi, Chao Zhou, Rui-Xiao Zhang, **Chenglei Wu**, Xin Yao, and Lifeng Sun. “Comyco: Quality-Aware Adaptive Video Streaming via Imitation Learning”. *Proceedings of the 27th ACM International Conference on Multimedia*. ACM. 2019. 429–437. Print. **MM '19**.
  - Zhang, Rui-Xiao, Ming Ma, Tianchi Huang, Haitian Pang, Xin Yao, **Chenglei Wu**, Jiangchuan Liu, and Lifeng Sun. “Livesmart: A QoS-Guaranteed Cost-Minimum Framework of Viewer Scheduling for Crowdsourced Live Streaming”. *Proceedings of the 27th ACM International Conference on Multimedia*. ACM. 2019. 420–428. Print. **MM '19**.
  - **Wu, Chenglei**, Zhihao Tan, Zhi Wang, and Shiqiang Yang. “A dataset for exploring user behaviors in VR spherical video streaming”. *Proceedings of the 8th ACM on Multimedia Systems Conference*. ACM. 2017. 193–198. Print. **MMsys '17**.
  - **Wu, Chenglei**, Zhi Wang, Jiangchuan Liu, and Shiqiang Yang. “Crowdsourced Live Streaming over Aggregated Edge Networks”. *2016 IEEE Global Communications Conference (GLOBECOM)*. IEEE. 2016. 1–6. Print. **GLOBECOM '16**.
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## ACADEMIC SERVICE

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 **IEEE Transactions on Multimedia**  
Invited reviewer for 2 Times

## REFEREES

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