

# Wenwei Zhang

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## Education

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### Wuhan University

Wuhan, China

B.S. in Software Engineering, GPA: 3.65/4, Ranking: 3/305 (Top 1%)

Sept. 2015 - May 2019 (Expected)

**Relevant Coursework:** Artificial Intelligence, Pattern Recognition, Data Mining, Digital Image Processing, Computer Network, Data Structure and Algorithms, Computer Organization and Architectures.

## Professional Experience

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### iNCML Lab, York University

Toronto, Canada

SUMMER RESEARCH INTERN

Jun. 2018 - Aug. 2018

- Conducted literature reviews and reproduced experimental results from building Question and Answering (QA) models based on findings in research papers
- Implemented a QA model with the Fixed-Size Ordinally-Forgetting Encoding (FOFE) method and feedforward neural network
- Delivered a presentation at the annual Undergraduate Summer Student Research Conference of York University

### SenseTime Group Ltd

Beijing, China

RESEARCH INTERN AT THE SEGMENTATION GROUP

Jan. 2018 - May 2018

- Conducted research on vehicle panorama stitching for free space detection and warning, and incorporated this technique into the Advanced Driver Assistant System
- Developed scene recovery algorithms in the vehicle path planning project for autonomous driving
- Investigated lane segmentation using Fully Convolutional Networks, conducted experiments on the CULane Dataset and improved the F1 measure; applied for patents and co-authored a research paper accepted by ACMMM 2018

### Financial Information and Services Science Laboratory, Wuhan University

Wuhan, China

RESEARCH ASSISTANT

Dec. 2015 - Feb. 2018

- Investigated the origin of consciousness and human intelligence by surveying relevant literature and published the findings in books and papers
- Analyzed the Chinese voiceprint to standardize the speech for speech recognition using FFT
- Researched on the Blockchain frameworks currently used in the market, including Bitcoin and Ethereum
- Led a team of 11 students to develop a blockchain-based online educational platform based on Ethereum in the 2017 Citi Financial Innovation Application Competition and was awarded the winning prize
- Created Wuhan University (WHU)'s first WeChat application for campus tour guidance for 6000+ users, and an H5 application for the promotion of popular food around WHU using the statistics collected by the News Center of Ziqiang Studio

## Publication

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### ***Before the Rise of Machines, The beginning of Consciousness and the Human Intelligence***

H. J. CAI, TIANQI CAI, WENWEI ZHANG, KAI WANG

Tsinghua University Press, March, 2017

Awarded the Wu Wenjun Award for Science and Technology of Artificial Intelligence.

### **StripNet: Towards Topology Consistent Strip Structure Segmentation**

GUOXIANG QU\*, WENWEI ZHANG\*, ZHE WANG, XING DAI, JIANPING SHI, YU QIAO

ACM International Conference on Multimedia (ACMMM), 2018

### **The Beginning and Evolution of Consciousness**

H. J. CAI, TIANQI CAI, WENWEI ZHANG, KAI WANG

International Conference on Artificial Intelligence and Industrial Engineering (AIIIE), 2016

## Skills

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**Technical Languages** Pytorch, Torch, Matlab, OpenCV, Caffe, Python, C++/JAVA Programming, Latex  
Fluent in English, GRE 323 (Verbal 156 + Quantitative 167) + AW 3.5, TOEFL 101