

# Zhongping Zhang

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## EDUCATION

**Boston University**, Boston, MA, US  
*Ph.D.*, Computer Science, Sep 2019 - present

**University of Rochester**, Rochester, NY, US  
*Master of Science*, Electrical Engineering, Sep 2016 - May 2018

**Harbin Institute of Technology**, Harbin, China  
*Bachelor of Engineering*, Control Science & Engineering, Sep 2012 - July 2016

## RESEARCH INTERESTS

Computer Vision, Natural Language Processing, Machine Learning

## EXPERIENCES

**Boston University** Boston, MA  
Research Assistant, IVC Group Sep 2019 - present  
Advisor: *Bryan Plummer*  
image similarity, image manipulation, defending against machine manipulated media

**Kwai Inc.** Palo Alto, CA  
Research Intern May 2020 - Aug 2020  
Advisor: *Zhenyu Liao*  
portrait edge detection, image manipulation

**Los Alamos National Laboratory** Los Alamos, NM  
Research Associate Jun 2018 - Jan 2019  
Advisor: *Youzuo Lin*  
data mining for geophysics and geology

**University of Rochester** Rochester, NY  
Research Assistant, VISA Group Sep 2017 - May 2018  
Advisor: *Jiebo Luo*  
image forgery detection, social media data mining, image captioning

**Sogou Inc.** Beijing, China  
Research Intern May 2017 - Aug 2017  
speech denoising and dereverberating

## SELECTED PUBLICATIONS

**Zhongping Zhang**, Youzuo Lin. “Data-Driven Seismic Waveform Inversion: A Study on the Robustness and Generalization”, *IEEE Transactions on Geoscience and Remote Sensing (TGRS)*, 2020.

**Zhongping Zhang**, Youzuo Lin, Zheng Zhou, Tianlang Chen. “Adaptive Filtering for Event Recognition from Noisy Signal: An Application to Earthquake Detection”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2019.

**Zhongping Zhang**, Yue Wu, Zheng Zhou, Youzuo Lin. “VelocityGAN: Data-driven Full Waveform Inversion by Conditional Adversarial Networks”, *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2019.

**Zhongping Zhang**, Tianlang Chen, Zheng Zhou, Jiaxin Li, Jiebo Luo. “How to Become Instagram Famous: Post Popularity Prediction with Dual-Attention”, *IEEE International Conference on Big Data (IEEE Big Data)*, 2018.

Tianlang Chen, **Zhongping Zhang**, Quanzeng You, Chen Fang, Zhaowen Wang, Hailin Jin, Jiebo Luo. ““Factual” or “Emotional”: Stylized Image Captioning with Adaptive Learning and Attention”, *European Conference on Computer Vision (ECCV)*, 2018.

**Zhongping Zhang**, Yixuan Zhang, Zheng Zhou, Jiebo Luo. “Boundary-based Image Forgery Detection by Fast Shallow CNN”, *International Conference on Pattern Recognition (ICPR)*, 2018.

Yingchao Meng\*, **Zhongping Zhang**\*, Huaqiang Yin, and Tao Ma. “Automatic Detection of Particle Size Distribution by Image Analysis Based on Local Adaptive Canny Edge Detection and Modified Circular Hough Transform”, *Micron*, 2018 (\* means equal contribution)

## PROFESSIONAL ACTIVITIES

### Presentation

- “VelocityGAN: Subsurface Velocity Image Estimation Using Conditional Adversarial Networks”, *IEEE Winter Conference on Applications of Computer Vision (WACV)*, Hilton Waikoloa Village, Hawaii, Jan. 2019 (Spotlight)
- “DeepDetect: Earthquake Detection with Convolutional Neural Network”, *Joint Meeting on Machine Learning Applications to Seismology*, University of New Mexico, Albuquerque, NM, Aug. 2018. (Invited Talk)
- “Spatial-temporal Densely Connected Convolutional Networks: An Application to CO2 Leakage Detection”, *International Exposition 88th Annual Meeting, Society of Exploration, Geophysicists (SEG)*, Anaheim, CA, Oct. 2018. (Oral)
- “Data-driven Methods for Subsurface Velocity Estimation”, *Recent Advances in Machine Learning and Computational Methods for Geoscience*, University of Minnesota, Minneapolis, MN, Oct. 2018. (Poster)

### Teaching Fellow, Boston University

- 2020 Fall - CS542 Machine Learning
- 2019 Fall - CS101 Introduction to Computer Science

### Teaching Assistant, University of Rochester

- 2018 Spring - Circuits & Microcontrollers for Engineers
- 2017 Fall - Introduction to Signals & Circuits

### Reviewer

Micron’19; ICPR’18

## SKILLS

**Languages:** Python, MATLAB, R, Java, L<sup>A</sup>T<sub>E</sub>X

**Frameworks:** PyTorch, Keras, TensorFlow, OpenCV

**Operating Systems:** Linux, Mac OSX, Windows