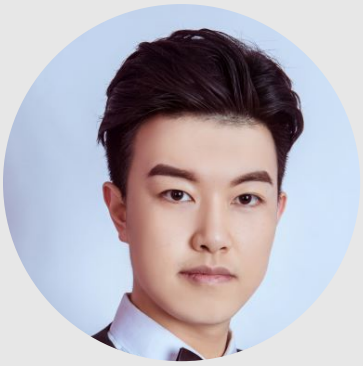

# Xuhong WANG

Ver. 2020.08


2 May 1995

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## Interests

Anomaly Detection
Fraud Detection
Graph Neural Networks
Variational Inference
Self-supervised Learning
Imbalanced Learning
Graph Embedding
Encoder-Decoder Networks
Generative Adversarial Networks

## Skills

Languages: Python, Matlab, C/C++, SQL, Latex, etc.

Development: Linux, Git, Shell, etc.

Frameworks: PyTorch, Deep Graph Library, Tensorflow, Matlab, Scikit-Learn, etc.

## Strengths

Good understanding for papers
Rich experience in model coding
Innovator
Fast Learner
self-motivated

## Education

since 2017 — Shanghai Jiao Tong University, Shanghai, China — Ph.D. candidate
Majoring in Automation GPA 3.82/4

Feb. 2017 — Keio University, Tokyo, Japan — Exchange Student
The international Campus

2013 - 2017 — Sichuan University, Sichuan, China — Bachelor
Majoring in Electronic Engineering (EE) average mark 84.5

## Experience

2020.6 - — Research Intern — Alipay, Alibaba Group, Hangzhou, CHN
We use attention mechanism to aggregate static long-term relationships and dynamic short-term relationships, effectively improving the effectiveness of fraud detection in a giant graph with 100 million nodes and 400 million edges.

2020.4 - 6 — Research Intern — Microsoft Research Aisa, Beijing, CHN
Tree-Lstm based Azure cloud system performance issue detection.

2019.7 - 12 — Deep Learning Intern — Intel Asia-Pacific, Shanghai, CHN
We used my adVAE model in unsupervised biopsy image recognition, which even exceeds the performance of supervised Resnet-50.

## Publications

- *X. Wang** et al. "adVAE: A self-adversarial variational autoencoder with Gaussian anomaly prior knowledge for anomaly detection." Knowledge-Based Systems 190 (2020): 105187. (IF=5.3, H-index=94) [Paper, Code]
- *X. Wang** et al. "One-Class Graph Neural Networks for Anomaly Detection in Attributed Networks." arXiv preprint arXiv:2002.09594 (2020). [Paper, Code]
- S. Lin, F. Xu, *X. Wang**, W. Yang, L. Yu. "Efficient Spatial-Temporal Normalization of SAE Representation for Event Camera." IEEE Robotics and Automation Letters 5.3 (2020): 4265-4272. [Paper, Code]
- *X. Wang** et al. "Variational Autoencoder Based Fault Detection and Location Method for Power Distribution Network." Condition Monitoring and Diagnosis. IEEE, 2020. (Accept, Oral)
- P. Cui, *X. Wang**, Y. Yang. "Statistics manifold learning approach and its application to non-Gaussian process monitoring.", Chinese Control Conference (international), 2020. (Accept)
- Y. Du, Y. Liu, *X. Wang**, J. Fang, G. Sheng, X. Jiang. "Predicting Weather-Related Failures in Distribution Systems Using Bayesian Neural Network.", IEEE Transactions on Smart Grid. (Accept)
- J. Huang, *X. Wang**, S. Lin, H. Zhao, Z. Hu. "A Pull-type Braille Screen and its Components Reuse Method." (Patent, No. CN106781881A, July 2017)

## Honers and Awards

Sept. 2019 — PhD Academic Scholarship of Shanghai Jiao Tong Univ. (TOP 5%)
Oct. 2016 — 1st Prize, Outstanding Scholarship of Sichuan Univ. (TOP 5%)
May 2016 — 2nd Prize, Outstanding Scholarship of Sichuan Univ. (TOP 10%)
Oct. 2015 — 2nd Prize, Outstanding Scholarship of Sichuan Univ. (TOP 10%)

Sept. 2016 — 2nd Prize, China "Internet+" College Students Innovation and Entrepreneurship Competition
Oct. 2015 — 3rd Prize, National Undergraduate Electronic Design Competition

May 2019 — Excellent Postgraduate Student of Shanghai Jiao Tong Univ.
May 2018 — Excellent Postgraduate Student of Shanghai Jiao Tong Univ.
Nov. 2015 — Excellent Student Cadre of Sichuan Univ.
July 2015 — Outstanding Academic Student Association Leader of Sichuan Univ.