

Zhenhui Xu

Peking University, Beijing, P.R.China, 100871

🌐 motefly.github.io

✉ zhenhui.xu@pku.edu.cn

🐙 [motefly](https://github.com/motefly)

in [zhenhui-x-6930a68a](https://www.linkedin.com/in/zhenhui-x-6930a68a)

EDUCATION

Peking University

Master of Data Science

Beijing, China

Sept 2017 - Present

Jilin University

Bachelor of Computer Science

Changchun, China

Sept 2013 - July 2017

KEY SKILLS

DL, ML, NLP, Recommendation, CV, Graph; Linux, Emacs, Python, TensorFlow, Pytorch, C++, \LaTeX .

ACADEMIC PROJECTS

Efficient BERT Pre-training

Oct 2019 – Present

- Research in Efficient BERT Pre-training.

Adaptive Neural Network for Tabular Data

June 2019 – Present

- Research in tabular learning, focusing on design a adaptive and efficient neural network for tabular data.

Piecewise Linear Activation Function

June 2018 – May 2019

- Research in piecewise linear activation function for model compression and propose a new activation.
- The paper (as First author) has been submitted to NeurIPS'19.

Open-source Community Contributor

Mar 2019 – Apr 2019

- Contributor to "github.com/Microsoft/Recommenders"(over 4k stars).
- Applying LightGBM in the recommendation scenario, improved by Label Encoding when handling sparse categorical features.

DeepGBM

Sept 2018 - Feb 2019

- Propose a deep learning framework distilled by GBDT for online prediction tasks, named DeepGBM.
- The paper has been accepted by KDD'19, in Research Track, as an Oral paper (9%).

Opinion-aware Knowledge Embedding

Nov 2018 - Feb 2019

- Propose a novel method to integrate the knowledge from Knowledge Graph and the opinion from the text to enhance the performance on Stance Detection.
- The paper has been accepted by APweb-WAIM'19, as a full research paper.

EXPERIENCE

Microsoft Research Asia (MSRA)

Research Intern; Mentor: Guolin Ke

Beijing, China

June 2018 - Dec 2019

Internship in Machine Learning Group, be interested in Neural Networks, Graph Networks, Ensemble Trees Model (GBDT etc.) and some related areas.

The Chinese University of Hong Kong (CUHK)

Research Assistant; Advisor: Kim-Fai Wong

Hong Kong, China

Jul 2019 - Aug 2019

R&D for a ChatBot Project.

University of California, Los Angeles (UCLA)

Exchange Visitor; Advisor: Wei Wang

Los Angeles, CA, USA

Aug 2016 - Sept 2016

Start research in Machine Learning and Data Mining, try a competition in Kaggle.

Alibaba Group

Search R&D Engineer Intern; Manager: Shaozhi Liu

Internship in Engine Kernel Development Group, focuses on the Search Engine Development and Test Framework Building for the largest E-commerce platform in China.

Beijing, China

June 2016 - Aug 2016

PUBLICATIONS

- **Zhenhui Xu**, Guolin Ke, Jia Zhang, Jiang Bian, and Tie-Yan Liu. "Light Multi-segment Activation for Model Compression." In Thirty-Fourth AAAI Conference on Artificial Intelligence, AAAI, 2020.
- Guolin Ke, **Zhenhui Xu**, Jia Zhang, Jiang Bian, and Tie-Yan Liu. "DeepGBM: A Deep Learning Framework Distilled by GBDT for Online Prediction Tasks." In Proceedings of the 25th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining, ACM, 2019.
- **Zhenhui Xu**, Qiang Li, Wei Chen, Yingbao Cui, Zhen Qiu, and Tengjiao Wang. "Opinion-Aware Knowledge Embedding for Stance Detection." In Asia-Pacific Web (APWeb) and Web-Age Information Management (WAIM) Joint International Conference on Web and Big Data. Springer, Cham, 2019.
- Longlong Xu, Wutao Lin, **Zhenhui Xu**, Wei Chen, and Tengjiao Wang. "ChargeMap: An Electric Vehicle Charging Station Planning System." In Asia-Pacific Web (APWeb) and Web-Age Information Management (WAIM) Joint International Conference on Web and Big Data. Springer, Cham, 2017.

AWARDS AND ACHIEVEMENTS

- Silver Medal, The 40th ACM-ICPC Asian Regional, November 2015.
- Triple-A Student Scholarship, Peking University, September 2019.
- May Fourth Scholarship, Peking University, September 2018.
- Outstanding Research Award, Peking University, September 2018.
- Provincial First Prize, National Mathematical Modeling competition, October, 2016.