

Peining Zhang

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Education

Rutgers University

2019 - 2021

Master of Science in Computer Science

Overall GPA: 3.94/4.0 GRE: 324 + 3

Coursework includes: Computer Vision, Natural Language Processing, Advanced Data Management, Machine Learning, Massive Data Storing and Retrieval

University of Science and Technology of China

2015 - 2019

Bachelor of Science in Computer Science and Technology

Overall GPA: 3.24/4.3 Rank: 55/176

Research Experience

Semi-supervised Learning in Named Entity Recognition

Feb.2020 - Jan.2021

Course Project and Essay for Graduation, advised by Sungjin Ahn

- Applied pre-trained ALBERT model on the problem Named Entity Recognition
- Implemented multiple Semi-supervised technique for semi-supervised learning

Seq-to-Seq Thematic Music Comments Generation

Feb.2018 - Jun.2020

Researcher Assistant, in Laboratory of Semantic Computing and Data Mining, USTC, advised by Linli Xu

- Collected music and comments by web crawlers, and extracted features using WaveNet
- Implemented the model generating comments guided by extracted audio feature
- Optimized the Generative Adversarial Network model to progress 13.5 on Bleu than MLE

Improving the Evolutionary Search Algo

May 2017 - June 2018

Research Assistant, in USTC-Birmingham Joint Research Institute, advised by Ke Tang

- Added asymmetry to the distance measurement between the searching vectors to improve the efficiency of Negative Correlated Search for more than 10 times
- Improved effectiveness and surpassed all results of IEEE CEC-11 competition in application

Industry Experience

Realtime Advertising System

Jun.2021 - Present

Machine Learning Engineer, in Kuaishou Technology Company

- Designed and implemented the zero-inflated model for GMV(Gross merchandise volume) prediction modeling for audience targeting
- Applied an MTL model with ESMM structure on CTR prediction problem and improved ranking model in the recommendation system based on DeepFM. The AUC increased by 3.7 percent
- Developed Real-time bidding system through user lifetime value modelling

Optical Character Recognition

Jan.2019 - Mar.2019

Intern-Researcher, in Nantian Electronics Information Company

- Independently implemented the OCR project including region regression, text detection, recognition
- Used springboot to build web interface for remote access

Publications

Runlong Yu, Peining Zhang, Ke Tang. 2018. *Negatively Correlated Search with Asymmetry for Real-Parameter Optimization Problems* Journal of Computer Research and Development

Peining Zhang, Junliang Guo, Linli Xu, Mu You, Junming Yin. 2020. *Bridging Music and Text with Crowdsourced Music Comments: A Sequence-to-Sequence Framework for Thematic Music Comments Generation* submitted to AAAI.

Competitions

Kaggle – Quora Insincere Questions Classification

Silver Medal (26/3623)

Kaggle – VSB Power Line Fault Detection

Silver Medal (42/487)

USTC – USTC Mathematical Contest in Modeling

Second Prize (4/25)