

PEI CHEN

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EDUCATION

Ph.D. Candidate in Computer Science

2019.8 - 2023.12 (expected)

- Research Areas: Natural Language Processing;
- Research Interests: Large Language Model Pretraining and Prompting, Information Extraction;
- Overall GPA: 4.0/4.0 till now.

Texas A&M University

MS in Finance

2016.9 – 2018.6

- Thesis: Does News Sentiment Predict the Stock Market? An Example on Chinese Growth Market;
- Received 2017 National Scholarship for Graduate Student;
- Overall GPA: 3.9/5.0, ranking 1/178.

Southwestern University of Finance and Economics

B.Engr. in Simulation Engineering

2010.9 – 2014.6

- Thesis: Analyze and reconstruct the multi-resolution modeling technology of a simulation system;
- Overall GPA 88.61/100, ranking 1/45.

National University of Defense Technology

EXPERIENCE

AutoGluon Team, AIRE Lab, AWS

2023.5 – now

Applied Scientist (Intern)

Santa Clara, CA

Working on automatic prompting for large language models.

Bedrock Team, AIRE Lab, AWS

2022.6 – 2023.1

Applied Scientist (Intern)

Santa Clara, CA

Proposed and pretrained a novel tabular language model and improved table understanding tasks.

Tencent AI Lab

2021.6 – 2021.8

NLP Researcher (Intern)

Seattle, WA

Proposed a comprehensive zero-shot benchmark for zero-shot knowledge base completion tasks.

National Lab of Pattern Recognition, Chinese Academy of Sciences

2018.1 – 2019.8

Research Engineer

Beijing, China

Improved the event extraction and causality detection tasks from financial domain texts.

Innovation Lab of Global Exchange, State Street

2017.7- 2018.1

Data Analyst (Intern)

Hangzhou, China

Working on data cleaning, analysis, visualization and database construction for innovative financial applications.

PUBLICATIONS

One first-authored paper about tabular language model pretraining is under review.

Pei Chen, Wenlin Yao, Hongming Zhang, Xiaoman Pan, Dian Yu, Dong Yu, and Jianshu Chen. “ZeroKBC: A Comprehensive Benchmark for Zero-Shot Knowledge Base Completion.” ICDM-2022, KG workshop.

Pei Chen, Haotian Xu, Cheng Zhang, and Ruihong Huang. “Crossroads, Buildings and Neighborhoods: a Dataset for Fine-grained Location Recognition”. NAACL-2022, long paper, acceptance rate: 21.96%.

Pei Chen, Haibo Ding, Jun Araki, and Ruihong Huang. “Explicitly Capturing Relations between Entity Mentions via Graph Neural Networks for Domain-specific Named Entity Recognition.” ACL-2021, short paper, acceptance rate: 21.2%.

Pei Chen, Kang Liu, Yubo Chen, Taifeng Wang, and Jun Zhao. “Probing into the Root: A Dataset for Reason Extraction of Structural Events from Financial Documents.” EACL-2021, short paper, acceptance rate: 24.7%.

Pei Chen, Hang Yang, Kang Liu, Ruihong Huang, Yubo Chen, Taifeng Wang, and Jun Zhao. “Reconstructing Event Regions for Event Extraction via Graph Attention Networks.” AACL-2020, long paper, acceptance rate: 28.3%.

SKILLS

7 years of experience in Python, 4 years of experience in PyTorch, 2 years of experience in TensorFlow; 4 years of experience in C/C++ and 2 years of experience in SQL when in undergraduate; Experienced in parallel pretraining and training across multiple GPUs and machines.