

Curriculum Vitae

BASIC INFORMATION

Name: Lixiang Li
Gender: Male
Email: li4256@purdue.edu; Phone: 2012385321

EDUCATION

PhD Candidate of Computer Science Purdue University, West Lafayette, Indiana Advisor: Professor Bharat Bhargava	2021.8 – Now
Master of Applied Science in Electrical and Computer Engineering Dalhousie University, Halifax, Nova Scotia, Canada	2013.9 – 2016.5
Bachelor's in Engineering, Guangdong University of Technology, Guangzhou, P.R China	2009.9 – 2013.6

RESEARCH PROJECT

Temporal Aware Custom Language Model for Consumer Sentiment
Purdue University (supervised by Professor Bhargava)
(1) Conduct research on Temporal aware custom language model on consumer sentiment analysis as PHD in Purdue University
(2) Code and train a 700 million custom encoder-based model that is pre-trained on news dataset and fine-tuned on University of Michigan consumer sentiment survey dataset; The results beats SOTA GPT3.5 and GPT4
(3) Results published in as workshop paper in Neurips conference

Bias in Pre-trained Text Representation
Purdue University
(1) Conduct research social bias in various embeddings including Glove, Elmo, BERT in Purdue University

PUBLICATIONS

Lixiang Li, Nagender Neja, Alina Nesen and Bharat Bhargava, "SentimentPulse: Temporal Aware Custom Language Model vs GPT3.5 on Consumer Sentiment", accepted in **Neurips Workshop 2023**

PROFESSIONAL TRAINING AND RESEARCH INTERNSHIP EXPERIENCE

Research Internship Meta Inc., Sunnyvale, California (1) Research in improving recommendation tasks by using continual pretraining in ads_data_intelligence team (2) Experiment with google-T5, Pythia backbone language model in recommendation framework TASTE (3) Proposed a data curation pipeline to improve the performance of recommendation system	2024.5 - 2024.8
Insight Data Engineering Fellow Insight Data Science, New York, USA (1) Build a data pipeline that users can use to process compare similarity between images (Use S3, Spark and Postgres to process 100G+ image data from ImageNet and display similarity comparison results in the front end UI) Project repo -> https://github.com/lixali/Image_IP_protection Project website -> http://www.data-engineering.xyz	2020.1 – 2020.8

RESEARCH AND TECHNICAL SKILLS

Research Focus: Large Language model, Natural Language Processing's Bias in language model
Language: Proficient in Python, Java, bash/csh(Unix/Linux scripting)
Framework: Pytorch, Sci-kit learn

SCHOLARSHIP AND AWARD

Purdue University Teaching Assistantship	2021.8 – Now
NSERC Post-Graduate Doctoral Scholarship, Canada	2021.8 – Now
NSERC ASPIRE Program (Dalhousie University, NS, Canada)	2014.5 – 2015.6
Research Assistant Stipend (University of Saskatchewan, SK, Canada)	2014.5 – 2014.12

TEAMWORK AND PERSONALITY

I believe that I am a quick-learner and I am very easy to work with different people from different culture backgrounds and personalities. I pay attention to details and always put a positive attitude to work and life. I am drawn to a culture that build people up and I always build people up around me.