

# HANG ZHAO

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## EDUCATION

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### **Stony Brook University**

*Jan 2021 - Dec 2024 (Expected)*

Ph.D. Candidate in Computer Science (GPA: 3.83/4.00)

### **Stony Brook University**

*Jan 2019 - Dec 2020*

Master of Science in Computer Science

Courses: Machine Learning, Theory of Database Systems, Analysis of Algorithms, Data Visualization, Computing with Logic, System Fundamentals II, Principle of Programming Languages, Human-Computer Interaction

## EXPERIENCES

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### **Software Engineer, Machine Learning Intern at Meta**

*May 2024 - Aug 2024*

*Monetization GenAI Eng Team*

- Fine-tuned LLAMA3-8B models with LoRA on the multi-class classification task. It achieved 100% F1-score and outperformed the LLAMA3-70B model with prompt engineering plus few-shot examples.
- Consolidated fine-tuned LLAMA3-8B models of two or more classification tasks such that it outperformed dual SFT models and reduced latency by half during inference time. Deployed Fine-tuned LLAMA3 and consolidated models into production.

### **Human-Computer Interaction Laboratory at Stony Brook University**

*Dec 2019 - Present*

*Ph.D. Advisor: Prof. Xiaojun Bi*

My research experiences are related to Machine Learning, Deep Learning (Transformer, CNN, LSTM), Reinforcement Learning (DQN), AI medical diagnosis, and Large Language Model.

## PUBLICATIONS

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**Hang Zhao**, Kaiyan Ling, IV Ramakrishnan, M.D. Guy Schwartz, Xiaojun Bi.

**Modeling Mouse-based Pointing and Steering Tasks for People with PD** (submitted IMWUT 2024)

Description: I utilized CNN-Transformer models and Bayesian hierarchical models to detect Parkinson's disease (PD) symptoms on a time series dataset, achieving promising results (AUC=0.95, F1-score=0.96).

Kaiyan Ling, **Hang Zhao**, Xiangmin Fan, Xiaohui Niu, Wenchao Yin, Yue Liu, Cui Wang, Xiaojun Bi.

**Modeling Touch Pointing and Detect Parkinson's Disease via a Mobile Game**

*In Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2024)*

**Hang Zhao**, Sophia Gu, Chun Yu, Xiaojun Bi.

**Bayesian Hierarchical Pointing Models**

*The 35th Annual ACM Symposium on User Interface Software and Technology (UIST 2022)*

Zhi Li, Maozheng Zhao, Didyendu Das, **Hang Zhao**, Yan Ma, etc.

**Select or Suggest? Reinforcement Learning-based Method for High-Accuracy Target Selection on Touchscreen**

*CHI Conference on Human Factors in Computing Systems (CHI 2022)*

**Hang Zhao**, Michael Wang, Xiaolei Zhou, Xiangshi Ren, Xiaojun Bi.

**Variance and Distribution Models for Steering Tasks**

*The 34th Annual ACM Symposium on User Interface Software and Technology (UIST 2021)*

Yu-Jung Ko, **Hang Zhao**, IV Ramakrishnan, Shumin Zhai, Xiaojun Bi.

**Modeling One-Dimensional Touch Pointing with Nominal Target Width**

*The 47th Annual Graphics Interface Conference (Graphics Interface 2021)*

Yu-Jung Ko, **Hang Zhao**, IV Ramakrishnan, Shumin Zhai, Xiaojun Bi.

**Issues Related to Using Finger-Fitts Law to Model One-Dimensional Touch Pointing Tasks**

*CHI Conference on Human Factors in Computing Systems (CHI 2021)*

Yu-Jung Ko, **Hang Zhao**, Yoosang Kim, IV Ramakrishnan, Shumin Zhai, Xiaojun Bi.

**Modeling Two Dimensional Touch Pointing**

*The 33rd Annual ACM Symposium on User Interface Software and Technology (UIST 2020)*

## **HONORS & AWARDS**

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Stony Brook University GAANN Fellowship Award (2023-2024)

Best Paper Honorable Mention Award at 33rd Annual ACM Symposium on UIST 2021 (Top 5%)

Best Paper Honorable Mention Award at the International Symposium of CHI (Top 5%)

Kaggle Competition Silver Medal (Top 4%) On OTTO - Multi-Objective Recommender System

## **LICENSES & CERTIFICATIONS**

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Large Language Models: Application through Production certified by edX

Large Language Models: Foundation Models from the Ground Up certified by edX

Generative AI with Large Language Models certified by Coursera

Generative AI for Everyone certified by Coursera

Deep Learning Specialization certified by Coursera

Machine Learning Specialization certified by Coursera

Machine Learning certified by Coursera

Introduction to Machine Learning in Production certified by Coursera

Natural Language Processing with Classification and Vector Spaces certified by Coursera

AI for Medical Diagnosis certified by Coursera

## **SKILLS**

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Programming Language: C++ (Proficient), Java (Proficient), Python (Proficient), R, JavaScript, MATLAB.

Library: PyTorch (Proficient), TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Open-CV, Flask.