

# 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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### **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), and AI medical diagnosis at Stony Brook University.

## PUBLICATIONS

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

**Modeling Touch Pointing for People with Parkinson's Disease** (submitted UbiComp 2023)

Description: I applied CNN-Transformer and LSTM models using PyTorch to classify Parkinson's disease (PD) on the time series dataset (plus data augmentation) and achieved promising results (AUC=0.97, F1-score=0.97).

**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)

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%)

## 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.