JINGBIAO MEI Peterhouse, Trumpington Street, CB2 1RD +44(0)7529143111 jm2245@cam.ac.uk website: https://jingbiao.ml/ Education **University of Cambridge** Oct. 2022 - 2025 Ph.D. at Machine Intelligence Laboratory Speech Research Group Peterhouse, University of Cambridge Oct. 2018 - 2022 M.Eng & BA Information and Computer Engineering Courses: Statistical signal processing, Statistical machine learning, Deep learning, Computer vision, Optimizations, Computational neuroscience, Computer systems, Business modules Experience Artificial Intelligence Research Intern Huawei Cambridge Research Centre July.2022 - June.2023 Research and develop production-level efficient automatic speech recognition (ASR) system Apply model compression techniques to reduce the model parameter of the ASR system • Explore methods to simplify the model architecture to improve inference latency of the system **Deep Learning Research Intern** University of Cambridge June.2021 - Sept.2021 Research into multimodal hateful speech detection systems Experiment on various single stream and dual stream visual language transformer models • Use ensemble learning to create state-of-the-art hateful speech detection models Deep Learning Research Intern John Hopcroft Centre for Computer Science Shanghai Jiao Tong University Sept.2020 - Dec.2020 Research into fault tolerant neural network architectures Tested various ways of improving robustness by error-correction coding and ReRAM resistance variation • Developing a novel neural network architecture to handle fault with Bayesian Methods and Neural Architecture Search PyTorch programming, trained hundreds of models on GPU HPC, explored various Deep Learning tasks Accepted by DAC2021 as [BayesFT: Bayesian Optimization for Fault Tolerant Neural Network Architecture] Web Programmer Jieqi Edge Computing July - Sept.2019 • Rewrote website using Jekyll to improve efficiency and add functions like download and multi-language. (https://jieqi.io) • Examined and tested the faulty PCB and came up with solutions to fix the boards. • Tested initial design of the container with 3D printing. • Took videos and edited using Adobe Premiere to produce set-up tutorial videos. Publication • Ye, N., Mei, J., 2021. BayesFT: Bayesian Optimization for Fault Tolerant Neural Network Architecture. 2021 58th ACM/IEEE Design Automation Conference (DAC) **Extra-curricular Activities –** Cambridge University Chinese Cultural Society Media Coordinator March.2019-March.2020 Took Photos for various events Edit freshers' guide and publish to help freshers to fit in university life • Organise Orientation Camp

Courses -

- Deep Learning Specialization deeplearning.ai
- Machine Learning, Mathematics for Machine Learning
- Ai for Medical Diagnose/Prognose

Additional Skills -

- Deep Learning Framework (PyTorch, TensorFlow, Keras, PaddlePaddle)
- Programming (familiar with Python, Visual Basic, C++)
- HTML, CSS, Ruby, Markdown, Latex
- Microsoft Office
- CAD Software (Solidworks)
- Adobe Lightroom/Premiere/Photoshop/After Effects