

YONGSHENG MEI

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TECHNICAL SKILLS

Programming	Python, C, C++, MATLAB, Java, SQL, R, Verilog
Libraries	PyTorch, TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, BoTorch
Databases	MySQL, PostgreSQL, Microsoft SQL, NoSQL
Tools	Vim, Git, Bash, GDB, PyCharm, Jupyter, L ^A T _E X, Visual Studio, Altium Designer

EDUCATION

The George Washington University (GWU) Ph.D. in Electrical Engineering, GPA: 4.00	Sept. 2019 – Present <i>Washington, DC, US</i>
Huazhong University of Science and Technology (HUST) B.E. in Automation Engineering, GPA: 3.81	Sept. 2015 – June 2019 <i>Wuhan, Hubei, China</i>

EXPERIENCE

Research Assistant <i>Lab for Intelligent Networking and Computing (LINC), GWU</i>	Sept. 2019 - Present <i>Washington, DC, US</i>
Topic 1: Bayesian Optimization (BO) <ul style="list-style-type: none">Led to develop several novel BO frameworks for determining local optima with the gradient information for hyperparameter tuning, and estimate arrival intensity with the peak, idle time, and change point detection for doubly stochastic point process.	May 2022 – Present
Topic 2: Multi-Agent Reinforcement Learning (MARL) <ul style="list-style-type: none">Led several MARL projects, such as MAC-PO and AccMER, to develop an optimized prioritized experience replay MARL scheme and data-reuse strategy for MARL acceleration.	Aug. 2020 – Present
Topic 3: Multi-modal Medical Image Processing <ul style="list-style-type: none">Led to develop a multi-modal segmentation model for brain tumor MRI images via data fusion and attention with extracted correlated common information microstructures among modalities.	Feb. 2021 – Dec. 2022
Topic 4: Network Security via Protocol Customization <ul style="list-style-type: none">Led a project, MPD, to develop a reliable application-layer moving target defense model via customized communication protocols with dynamic synchronization and management.	Sept. 2019 – Aug. 2021
Visiting Scholar <i>Intelligence Optimization for Networks (ION) Lab, Purdue University</i>	June 2023 – Aug. 2023 <i>West Lafayette, IN, US</i>
Collaborated with Prof. Christopher Brinton on developing a class-incremental federated learning model , and used the diffusion model as the generative model for the server and clients for better learning performance.	
Electronic Engineer Student Intern <i>Electrical and Electronic Technology Innovation Center, HUST</i>	Feb. 2017 – Aug. 2017 <i>Wuhan, Hubei, China</i>
Led the printed circuit board design and FPGA programming for an adaptive signal filter and won the Second Prize of Hubei Province in the 2017 National Undergraduate Electronic Design Contest.	

REPRESENTATIVE PAPERS

- Yongsheng Mei**, Mahdi Imani, and Tian Lan, *Bayesian Optimization through Gaussian Cox Process Models for Spatio-temporal Data*, ICLR, May 2024. [\[PDF\]](#)
- Yongsheng Mei**, Hanhan Zhou, Tian Lan, Guru Venkataramani, and Peng Wei, *MAC-PO: Multi-Agent Experience Replay via Collective Priority Optimization*, AAMAS, 2023. [\[PDF\]](#)
- Yongsheng Mei**, Guru Venkataramani, and Tian Lan, *Exploiting Partial Common Information Microstructure for Multi-Modal Brain Tumor Segmentation*, ICML-ML4MHD, 2023. [\[PDF\]](#)
- Yongsheng Mei**, Kailash Gogineni, Tian Lan, and Guru Venkataramani, *MPD: Moving Target Defense through Communication Protocol Dialects*, SecureComm, 2021. [\[PDF\]](#)