

IASON OFEIDIS

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EDUCATION

Yale University , New Haven, CT	Expected May 2028
<i>Ph.D.</i> , Electrical & Computer Engineering	
<i>Selected Courses</i> : Intermediate Machine Learning, Distributed Systems, Graph Neural Networks, Big Data Systems	
<i>Awards</i> : Gerondelis Foundation Award, Yale Graduate School of Arts and Sciences Student Fellowship	

Aristotle University of Thessaloniki , Thessaloniki, Greece	June 2020
<i>M.Eng.</i> , Electrical & Computer Engineering, Major: Telecommunications	

RESEARCH EXPERIENCE

Nokia Bell Labs , <i>Networking Research Intern</i> , Murray Hill, NJ	June – August 2025
• Engineered a scalable, Clustered Federated Learning framework for joint anomaly detection and attack classification in resource-constrained IoT environments, with findings currently being prepared for publication.	
Yale University , <i>Graduate Researcher</i> , New Haven, CT	August 2023 – Present
• Co-designed and developed compression modules for Split Learning, achieving up to a 4x reduction in network usage compared to baseline models. Conducted comprehensive simulations and real-world experiments across multiple datasets, communication and device setups to demonstrate the effectiveness of the approach.	
• Currently investigating Split Federated Learning with multi-modality, incorporating large language models (LLMs) to address diverse communication and computation constraints, focusing on system efficiency and performance.	
• Collaborated with cross-functional teams on NSF-funded projects spanning U.S. and international universities, actively attending and showcasing research at annual meetings to share insights and strategies.	
Yale University , <i>Research Engineer</i> , New Haven, CT	November 2021 – July 2023
• Benchmarked 7 data loading libraries through 10 hyperparameter experiments across 3 computer vision datasets, conducted both locally and in the cloud, addressing performance and efficiency issues.	
• Developed and currently maintain the first open-source framework for data loader benchmarks, highlighting inherent differences, facilitating even comparison, and suggesting new research directions.	
• Built an Ethereum data scraper, managed and analyzed 2TB+ of blockchain data to reveal how Decentralized Finance (DeFi) responds to federal monetary policy decisions, impacting digital asset returns.	

Center of Research & Technology Hellas , <i>Research Assistant</i> , Thessaloniki, Greece	July – October 2021
• Led the redesign and refactoring of TRIPR, a bioinformatics software, transforming it into a fully functional Bioconductor package with both standalone and library capabilities, significantly boosting its user base.	
• Improved lab efficiency by automating code testing and evaluation workflows using GitHub Actions, resulting in streamlined computational processes and faster project completion times.	

TECHNICAL SKILLS

• Programming Languages: Python, Go, Rust, R, Java, C/C++, MATLAB, Linux/MacOS Shell Scripting (Bash)
• Frameworks: PyTorch, TensorFlow, PyG, Scikit-Learn, Django
• Tools: Git, Jupyter Notebooks, Docker, Kubernetes, k3s, protobuf, LaTeX, Pandas, NumPy, SciPy, Conda

SELECTED PUBLICATIONS

• Ofeidis, I. , Panitsas, I. & Tassiulas, L. (2025). “ <i>On-Device Multimodal Federated Learning for Efficient Jamming Detection</i> .” arXiv preprint arXiv:2508.09369.
• Ofeidis, I. , Kiedanski, D., & Tassiulas, L. “ <i>An Overview of the Data-Loader Landscape: Comparative Performance Analysis</i> ”. Accepted at the 2024 IEEE International Conference on Big Data.
• Mudvari A., Vainio A., Ofeidis I. , Tarkoma S., & Tassiulas L. “ <i>Adaptive Compression-Aware Split Learning and Inference for Enhanced Network Efficiency</i> ”. ACM Transactions on Internet Technology 2024.