

IASON OFEIDIS

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EDUCATION

Yale University, New Haven, CT

Expected May 2028

Ph.D., Electrical & Computer Engineering

Awards: Gerondelis Foundation Award, Yale Graduate School of Arts and Sciences Student Fellowship

Aristotle University of Thessaloniki, Thessaloniki, Greece

June 2020

M.Eng., Electrical & Computer Engineering, Major: Telecommunications

RESEARCH EXPERIENCE

Nokia Bell Labs, *Networking Research Intern*, Murray Hill, NJ

June – August 2025

- Engineered **CLAD**, a Clustered Federated Learning framework unifying unsupervised anomaly detection and supervised attack classification for label-scarce IoT, achieving a 30% relative gain in detection at 80% unlabeled clients with half the communication cost.

Yale University, *Graduate Researcher*, New Haven, CT

August 2023 – Present

- Designed **ModalShare**, a contribution-aware bandwidth allocator for multimodal Split Learning that uses a server-side Shapley probe to split a fixed uplink budget across modalities, improving accuracy by up to 15.4 pp over uniform allocation at matched payload with no added communication cost; gains held across three compressors, three datasets, and four budgets.
- 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.

Yale University, *Research Engineer*, New Haven, CT

November 2021 – July 2023

- Built the **first open-source framework** for data-loader benchmarking, evaluating 7 libraries across 10 hyperparameter settings and 3 vision datasets, locally and in the cloud, exposing performance and efficiency issues.
- 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, *Research Assistant*, 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. “*FedJam: Multimodal Federated Learning Framework for Jamming Detection*”. IEEE INFOCOM 2026.
- Ofeidis I.**, & Tassiulas L. “*Contribution-Aware Bandwidth Allocation for Multimodal Split Learning*”. *arXiv* 2026.
- Ofeidis, I.**, Kiedanski, D., & Tassiulas, L. “*An Overview of the Data-Loader Landscape: Comparative Performance Analysis*”. IEEE International Conference on Big Data 2024.
- Mudvari A., Vainio A., **Ofeidis I.**, Tarkoma S., & Tassiulas L. “*Adaptive Compression-Aware Split Learning and Inference for Enhanced Network Efficiency*”. ACM Transactions on Internet Technology 2024.