Iason **Skylitsis**

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Education

University of Amsterdam — *Amsterdam, Netherlands*

MSc in Artificial Intelligence — *Sep. 2023 - Present*

- Current GPA: 8.0/10
- Relevant Courses: Foundation Models, Deep Learning I & II, Machine Learning I, Reinforcment Learning, Causality

University of West Attica — *Athens, Greece*

BSc & MSc in Informatics & Computer Engineering (5-year degree; 300 ECTS) — *Oct. 2015 - Sep. 2022*

- GPA: 8.17/10; (Graduated 3rd in my class)
- Thesis: Deep learning and Explainable AI techniques for Alzheimer's disease detection on MRI, applying transfer learning and Grad-CAM visualizations to improve diagnostic interpretability. Grade: 10/10

Publications

Disentangling Sampling from Training Budget in Class-Imbalanced CT Body Composition Segmentation — *arXiv preprint*

I. Skylitsis, *D. Karkalousos, I. Išgum* — *2026*

- Designed controlled experiments isolating sampling strategy from training budget in class-imbalanced CT segmentation.
- Showed that most of episodic sampling's reported advantage is a budget artifact from epoch-based scheduling.

Injecting Image Guidance into Text-Conditioned Diffusion Models at Inference — *arXiv preprint*

A. Żywot, ***I. Skylitsis****, T. Nijdam, Z. Tzifa-Kratira, D. Prinzhorn, K. Szewczyk, A. Bhowmik* — *2026*

- Proposed Visual Concept Fusion (VCF), an inference-time method enabling dual image-text conditioning in Stable Diffusion without retraining.

Reproduction and Extension of "Robust Fair Clustering: A Novel Fairness Attack and Defense Framework" — *TMLR*

I. Skylitsis*, Z. Feng, I. Nasim, C. Niessink* — *2024*

- Reproduced and extended Chhabra et al. (ICLR'23), refining the codebase, adding metrics and datasets, exploring novel attack strategies, and conducting an ablation study to validate and broaden the original findings.

Experience

QurAI, Amsterdam UMC — *Amsterdam, Netherlands*

Master's Thesis Intern — *Jan. 2026 - Present*

- Building label-efficient 3D segmentation models for automated body composition analysis in CT scans.
- Extending a prototypical network framework with foundation model encoders (DINO, MedGemma, TAP-CT) to enable few- and zero-shot segmentation of novel tissue classes without large-scale annotation.

AMLab, University of Amsterdam — *Amsterdam, Netherlands*

Research Intern — *Jun. 2025 - Nov. 2025*

- Extended the Structural Causal Bandits framework to operate on equivalence classes (CPDAGs, PAGs) learned through causal discovery.
- Incorporated non-manipulable variables into the intervention-selection process to handle realistic decision-making constraints.

Twiki Solutions — *Rotterdam, Netherlands*

Software Engineer — *Jun. 2023 - Nov. 2025*

- Owned end-to-end development and deployment of an ML-based ETA prediction model for vessel arrivals in production, alongside internal and customer-facing analytics dashboards.
- Migrated OpenRPA scrapers to Python (BeautifulSoup, Selenium), boosting accuracy by 20% and speed by 7× in Twiki Container Tracker v3.

Amsterdam UMC (AMC) — *Amsterdam, Netherlands*

Research Intern — *Oct. 2022 - May 2023*

- Conducted research on MRI reconstruction methods, benchmarking supervised and self-supervised deep learning techniques.
- Contributed to evaluation and reporting of deep learning models for accelerated MRI reconstruction.

HOMLI (YC S22) — *Athens, Greece*

Data Science Intern — *Jun. 2022 - Aug. 2022*

- Built a transfer-time model between properties and major destinations, cutting Google service costs by 30%.
- Developed property price estimation models and automated analytics reports for data-driven decisions.