

Iason Skylitsis

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Experience

AMLab, University of Amsterdam [↗](#)

[Amsterdam, Netherlands](#)

RESEARCH INTERN

Jun. 2025 - Present

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

Twiki Solutions [↗](#)

[Rotterdam, Netherlands](#)

SOFTWARE ENGINEER

Jun. 2023 - Present

- Leading Data-Driven Services, developing dashboards and AI models for logistics, including an ETA prediction model.
- Migrated OpenRPA scrapers to Python (BeautifulSoup, Selenium), boosting accuracy by 20% and speed by 7× in Twiki Container Tracker v3.

Amsterdam University Medical Center (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.

Publications

REPRODUCTION AND EXTENSION OF "ROBUST FAIR CLUSTERING: A NOVEL FAIRNESS ATTACK AND DEFENSE FRAMEWORK"

- Reproduced and extended the ICLR'23 paper by Chhabra et al., refining the codebase, adding new metrics and datasets, and exploring novel attack strategies.
- Conducted comprehensive evaluations, including targeted attacks and an ablation study, to validate original claims and broaden the research landscape.

Projects

INJECTING IMAGE GUIDANCE INTO TEXT-CONDITIONED DIFFUSION MODELS AT INFERENCE

- Proposed Visual Concept Fusion (VCF), the first inference-time method enabling dual image-text conditioning in Stable Diffusion without re-training.
- Demonstrated improved alignment between text prompts and reference styles by aligning CLIP image features with text embeddings.

(EVEN MORE) EFFICIENT EQUIVARIANT TRANSFER LEARNING FROM PRETRAINED MODELS

- Reproduced and extended Basu et al. (2023), verifying missing experiments and refining λ -equitune results.
- Proposed equiattention, an Attention-based extension improving equivariant transfer learning performance.

DEEP LEARNING AND EXPLAINABLE ARTIFICIAL INTELLIGENCE TECHNIQUES FOR ALZHEIMER'S DISEASE DETECTION ON MRI

- Built a deep-learning pipeline for Alzheimer's detection on 2,180 MRI scans from ADNI.
- Improved model explainability with Grad-CAM visualizations for clinical interpretability.

Education

University of Amsterdam

[Amsterdam, Netherlands](#)

MSC IN ARTIFICIAL INTELLIGENCE

Sep. 2023 - Present

- Current GPA: 7.9/10
- Relevant Courses: Machine Learning I, Deep Learning I & II, Foundation Models, Reinforcement 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 Project: "Deep learning and Explainable Artificial Intelligence techniques for Alzheimer's disease detection on MRI"; Grade: 10/10