Tilemachos Aravanis

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PhD student, Visual Recognition Group, CTU in Prague - instance-level recognition, open-world segmentation, retrieval.

Experience and Education

Sept. 2025 – Present — **PhD Student, VRG, CTU in Prague** (expected graduation: Sept. 2029). Supervised by Giorgos Tolias; instance-level recognition in the open world (retrieve, classify, detect and segment particular objects). First-author **CVPR 2026 Highlight** (*Retrieve and Segment*) with public code; co-author of an **ICLR 2026** paper on efficient attentive probing.

Dec. 2024 – May 2025 — **Research Intern, VRG, CTU in Prague.** Few-shot, retrieval-augmented open-vocabulary segmentation with vision-language models, under Giorgos Tolias; the work became *Retrieve and Segment* (CVPR 2026 Highlight).

2019 – 2025 — **M.Eng. in Electrical and Computer Engineering, National Technical University of Athens (NTUA)**. GPA: 9.2/10 (top 4%, with honors).
Diploma Thesis: *Personalization of Text to Image Generation via Explainability of Attention Mechanism.* Conducted within CVSP Lab under the supervision of Petros Maragos and George Retsinas.

Research Publications

1. **Tilemachos Aravanis**, Panagiotis Filntisis, Petros Maragos, and George Retsinas. "Only-Style: Stylistic Consistency in Image Generation without Content Leakage". In: *Proceedings of the IEEE/CVF International Conference on Computer Vision (**ICCV**) Workshops*. **Best Student Paper Award** at the Personalization in Generative AI Workshop. [PDF] [Code] [Project page]. Oct. 2025.
2. **Tilemachos Aravanis**, Vladan Stojnić, Bill Psomas, Nikos Komodakis, and Giorgos Tolias. "Retrieve and Segment: Are a Few Examples Enough to Bridge the Supervision Gap in Open-Vocabulary Segmentation?" In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**)*. **Highlight**; Best Oral Presentation at the Greeks in AI Symposium 2026. [PDF] [Code] [Project page]. June 2026.
3. Bill Psomas, Dionysis Christopoulos, Eirini Baltzi, Ioannis Kakogeorgiou, **Tilemachos Aravanis**, Nikos Komodakis, Konstantinos Karantzalos, Yannis Avrithis, and Giorgos Tolias. "Attention, Please! Revisiting Attentive Probing Through the Lens of Efficiency". In: *Proceedings of the International Conference on Learning Representations (**ICLR**)*. [PDF] [Code] [Project page]. Apr. 2026.

Awards and Achievements

2026 — **Best Oral Presentation**, Greeks in AI Symposium 2026, Athens, for *Retrieve and Segment*.

CVPR 2026 Highlight, *Retrieve and Segment* (first author).

2025 — **Best Student Paper Award**, Personalization in Generative AI (P13N) Workshop, ICCV 2025, for *Only-Style* (first author).

2024 — **Winner, Makeathon 2024**, the first AI student hackathon in Greece, organised by UniAI.

Skills

Deep learning	PyTorch (expert; multi-GPU training), Hugging Face `transformers`/`diffusers`, vision-language and foundation models (CLIP, DINO, SAM, Stable Diffusion), nearest-neighbour search methods (FAISS), test-time adaptation and few-shot learning.
Programming	Python (expert), C/C++, Bash, Linux, SLURM clusters.
Research	First-author papers at CVPR (Highlight) and ICCV Workshops (Best Student Paper); official open-source code releases.
Languages	Greek (native), English (C2, Cambridge Certificate of Proficiency in English), German (B1, Goethe-Zertifikat).

Volunteering and Community

2025 – 2026	**Volunteer, Greeks in AI Symposium**, Athens — two consecutive editions of the annual meeting of the Greek AI research community. greeksin.ai
2024 – Present	**Education Associate**, UniAI — Student initiative bringing students closer to AI in Greece. uniai.gr
2023	**Rocketry Department Member**, Spin Space Innovation — Non-profit advancing Greek space technology. space-innovation.org