Mert Kilickaya

kilickayamert@gmail.com
• google scholar • website
+31 627 13 23 06 • Amsterdam, Netherlands

Deep Learning Researcher in computational pathology; PhD in Computer Vision and SSL. 4 US patents, 10+ top-tier publications.

Experience

2023 - Now **Deep Learning Researcher** - Agendia, Netherlands
- Developed novel biomarkers for breast cancer recurrence; patent filed and IVDR submission in progress.
- Drove full stack: ideation → algorithm development → implementation → containerization and deployment.

2022 - 2023 **Postdoctoral Researcher** - TU Eindhoven, Netherlands
- Supervised 5+ PhD/MSc students; work led to publications at ECCV and BMVC.
- Developed continual pre-training of foundation models via self-supervision.

2020 - 2021 **Research Scientist Intern** - Huawei, Finland
- Improved large-scale mobile visual search engine performance.
- Built text-interactive visual search algorithms; patent approved.

2017 - 2022 **Graduate Research Assistant** - Qualcomm (QUVA) Labs, Netherlands
- Worked on deep vision from search to detection and recognition; resulted in 4 patents and several publications.

Education

2017 - 2022 **PhD in Deep Learning** - University of Amsterdam, Netherlands
Thesis: *Contextual Understanding of Visual Interactions*
Keywords: human–object interaction, weak supervision, retrieval

2013 - 2016 **MSc in Computer Vision** - Hacettepe University, Turkey
Thesis: *Visual Importance with Applications to Vision and Language*

Selected Publications

HyTAS: A Transformer Architecture Search Benchmark (***ECCV*** *2024*)
Locality-Aware ViTs for Hyperspectral Imaging (***BMVC*** *2023*)
Are Labels Needed for Incremental Instance Learning? (***CVPRW*** *2023, Oral*)
Structured Visual Search via Composition-aware Learning (***WACV*** *2021*)
HOI Detection via Weak Supervision (***BMVC*** *2021*)
Re-evaluating Automatic Metrics for Image Captioning (***EACL*** *2017, Oral*)

Patents

Visual Search via Conversational Interaction (***Huawei****, 2022*)
Network for Interacted Object Localization (***Qualcomm****, 2021*)
Context-driven Learning of Human–Object Interactions (***Qualcomm****, 2020*)
Subject–Object Interaction Recognition Model (***Qualcomm****, 2019*)

Technical Skills

Stack PyTorch, TensorFlow, HuggingFace, OpenCV, Docker, Weights&Biases, Ray
Libraries Scikit-Learn, Pandas, NumPy, SciPy
Languages Python, C/C++

Service & Awards

Reviewer CVPR (25), ECCV (24), ICML (23, 24), NeurIPS (23, 24), ICLR (23, 24), EMNLP (21–23)
Award Best Reviewer (*ECCV 2024*)

05 Oct 2025