Mert Kilickaya

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Senior Deep Learning Scientist

PhD in Deep Learning with 4 US patents and 10+ top-tier publications.

Experience

2023 - Now **Deep Learning Researcher** - Agendia, Netherlands

- **Spearheaded** development of novel biomarkers for breast cancer recurrence, resulting in a **filed patent** and ongoing IVDR submission.
- **Drove full-stack ML life cycle**: ideation → algorithm development → implementation → containerization and deployment (Docker, PyTorch).

2022 - 2023 **Postdoctoral Researcher** - TU Eindhoven, Netherlands

- **Mentored** 5+ PhD/MSc students on deep learning projects, leading to publications at **ECCV** and **BMVC**.
- Conducted research on continual pre-training of foundation models via self-supervision.

2020 - 2021 **Research Scientist Intern** - Huawei, Finland

- **Improved** large-scale mobile visual search engine performance and efficiency.
- **Built** text-interactive visual search algorithms, resulting in an **approved patent**.

2017 - 2022 **Graduate Research Assistant** - Qualcomm (QUVA) Labs, Netherlands

- Developed deep vision models for key areas: visual search, detection, and recognition.
- Resulted in **4 US patents** and several top-tier publications.

Education

2017 - 2022 **PhD in Deep Learning** - University of Amsterdam, Netherlands
Thesis: *Contextual Understanding of Visual Interactions*

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

Selected Publications

(**H-index**: 6, **Citations**: 323+)

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

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

Service & Awards

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

06 Oct 2025