Mert Kilickaya

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PhD in Deep Learning with expertise in Computer Vision, Self-Supervised Learning, and Generative AI. 4 patents and 10+ top-tier publications. Proven track record in applying vision models to industrial challenges. Looking for impactful roles in industrial AI research.

Experience

2023 - Now **Deep Learning Researcher** - Agendia, Netherlands
Designed foundation models for histopathology and transcriptomics.

2022 - 2023 **Postdoctoral Researcher** - TU Eindhoven, Netherlands
Proposed self-supervised learning methods that can improve continuously.

2020 - 2021 **Research Scientist Intern** - Huawei, Finland
Proposed novel methods for interactive visual image search.

2017 - 2022 **Graduate Research Assistant** - Qualcomm (QUVA) Labs, Netherlands
Proposed methods for visual action and object detection.

2013 - 2016 **Graduate Research Assistant** - Hacettepe University, Turkey
Built vision-language foundation models for image captioning.

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*

Papers

10+ top-tier conference papers. Selected:

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

Patents

4 US patents in various AI technologies:

1. Visual Search via Conversational Interaction (***Huawei****, 2022*)
2. Network For Interacted Object Localization (***Qualcomm****, Ref. 206518, 2021*)
3. Context-driven Learning of Human-object Interactions (***Qualcomm****, 2020*)
4. Subject-object Interaction Recognition Model (***Qualcomm****, 2019*)

Technical Skills

Platforms PyTorch, TensorFlow, HuggingFace, OpenCV
Tools Scikit-Learn, Pandas, NumPy, SciPy
Languages Python, C/C++ (familiar)

Miscellaneous

Reviewer CVPR (25), ECCV (24), EMNLP (21, 22, 23), ICML (23, 24), NeurIPS (23, 24), ICLR (23, 24).
Awards Best Reviewer Award (*ECCV, 2024*)

09 Dec 2024