

PhD in Deep Learning with expertise in Computer Vision, Self-Supervised Learning, and Efficient Learning. Proven track record in developing new models, contributing to 4 patents and over 10 publications. Seeking to leverage strong research acumen to drive innovation as an industrial Research Scientist.

## Experience

- 2022 - 2024 Postdoc Researcher - **TU Eindhoven** - Netherlands  
Self-supervised Learning & Efficient Learning
- 2020 - 2021 Research Scientist Intern - **Huawei** - Finland  
Visual Image Search
- 2017 - 2022 Graduate Research Assistant - **Qualcomm (QUVA) Labs** - Netherlands  
Action and Object Detection
- 2013 - 2016 Graduate Research Assistant - **Hacettepe University** - Turkey  
Vision-and-Language Models

## Education

- 2017 - 2022 **PhD Deep Learning** - University of Amsterdam - Netherlands  
Computer Vision • Object Detection • Scene Understanding  
Thesis: Contextual Understanding of Visual Interactions  
Advisor: Prof. Arnold Smeulders
- 2013 - 2016 **MSc Computer Vision** - Hacettepe University - Turkey  
Computer Vision • Vision and Language  
Thesis: Visual Importance with Applications to Vision and Language  
Advisor: Prof. Nazli Ikizler-Cinbis

## Publications

### Selected Papers

- 2023 Locality Aware Hyperspectral Imaging - *BMVC*  
F. Zhou, M. Kilickaya and J. Vanschoren
- 2023 Are Labels Needed for Incremental Instance Learning? - *CVPRW (Oral)*  
M. Kilickaya and J. Vanschoren
- 2021 Human-object Interaction Detection via Weak Supervision - *BMVC*  
M. Kilickaya and A.W.M. Smeulders
- 2020 Structured Visual Search via Composition-aware Learning - *WACV*  
M. Kilickaya and A.W.M. Smeulders
- 2017 Re-evaluating Automatic Metrics for Image Captioning - *EACL (Oral)*  
M. Kilickaya, A. Erdem, N. Ikizler-Cinbis, E. Erdem

### Patents

- 2022 Visual Search via Conversational Interaction (Con-VIS) - *Huawei Ref. 92005865*
- 2021 Network For Interacted Object Localization - *Qualcomm Ref. 206518*
- 2020 Context-driven Learning of Human-object Interactions - *Qualcomm Ref. 200249GR1*
- 2019 Subject-object Interaction Recognition Model - *US 20200302232A1*

## Technical Skills

**Platforms** (*proficient*): PyTorch, TensorFlow, (*familiar*): HuggingFace, Jax

**Scientific** (*proficient*): OpenCV, Scikit-Learn, SciPy, Pandas, Numpy

**Languages** (*proficient*): Python (*familiar*): HTML/CSS, C/C++

## Miscellaneous

**Grants** TL150k grant from the Scientific Council to start-up our Visual Analytics Platform, 2016 - Turkey  
\$20k grant from the Scientific Council of Quebec for research internship, 2014 - Canada

**Reviewer** *ECCV (24), EMNLP (21, 22, 23), ACL (23), ICML (23, 24), NeurIPS (23, 24), ICLR (23, 24).*

20 May 2024