

Post-doc in Machine (Meta) Learning from TU Eindhoven. Previously PhD in Computer Vision from the University of Amsterdam. I am experienced in visual recognition, detection and search of human actions and interactions.

## Experience

- 2022 - 2023 Graduate Research Assistant - **TU Eindhoven** - Netherlands  
Conduct research on meta learning and continual learning
- 2020 - 2021 Research Intern - **Huawei** - Finland  
Conduct research on visual search | Patent pending | Improved Huawei Petal Search Engine
- 2017 - 2022 Graduate Research Assistant - **University of Amsterdam** - Netherlands  
Conduct research on visual interactions | Published at BMVC, WACV
- 2013 - 2016 Graduate Research Assistant - **Hacettepe University** - Turkey  
Conduct research on vision and language | Published at EACL

## Education

- 2022 - 2023 **Post-doc Machine Learning** - TU Eindhoven - Netherlands  
Meta Learning • Incremental Learning
- 2017 - 2022 **PhD Computer Vision** - University of Amsterdam - Netherlands  
Action Recognition • Visual Retrieval • Multi-modal Learning • Human-object Interactions  
Thesis: Contextual Understanding of Visual Interactions  
Advisor: Prof. Arnold Smeulders
- 2013 - 2016 **MSc Computer Vision** - Hacettepe University - Turkey  
Computer Vision • Machine Learning • Data Science  
Thesis: Visual Importance with Applications to Vision and Language  
Advisor: Prof. Nazli Ikizler-Cinbis

## Publications

### Under Submissions

- 2022 Visual Image Search-by-Dots
- 2022 Visual Inter-Former for Novel Interaction Understanding

### Selected Papers

- 2021 Human-object Interaction Detection w/o Alignment 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
- 2020 Self-Selective Context for Interaction Recognition - *ICPR*  
M. Kilickaya, N. Hussein, E. Gavves and A.W.M. Smeulders
- 2017 Re-evaluating Automatic Metrics for Image Captioning - *ACL (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, Keras, (*familiar*): Gensim, Spacy
- Scientific** (*proficient*): OpenCV, Scikit-Image, Scikit-Learn, SciPy, Pandas, Numpy
- Languages** (*proficient*): Python, Matlab (*familiar*): HTML/CSS, C/C++
- Coding** object-oriented, algorithms, data structures, version control

## 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** *IEEE ToM, EMNLP, ACL, CVPR, ICCV, ECCV*