

Computer Vision and Machine Learning PhD Researcher. I have expertise on: Visual Object/Action Detection, Vision-Language Pre-training, Visual Image Search, Self-Supervised Learning and Continual Learning.

## Experience

- 2022 - 2023 Post-doc Researcher - **TU Eindhoven** - Netherlands  
Conducting research on self-supervised continual learning
- 2020 - 2021 Research Intern - **Huawei** - Finland  
Conducted research on visual search engine | Published a US Patent
- 2017 - 2022 Graduate Research Assistant - **University of Amsterdam** - Netherlands  
Conducted research on visual action recognition | Published at BMVC, WACV
- 2013 - 2016 Graduate Research Assistant - **Hacettepe University** - Turkey  
Conducted research on vision and language | Published at EACL

## Education

- 2017 - 2022 **PhD Computer Vision** - University of Amsterdam - Netherlands  
Action Recognition • Visual Retrieval • Human-object Interactions  
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 Towards Label-Efficient Incremental Learning: A Survey - *ArXiv*  
M. Kilickaya, Joost van de Weijer and Yuki M. Asano
- 2022 Are Labels Needed for Incremental Instance Learning? - *ArXiv*  
M. Kilickaya and Joaquin 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
- 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, (*familiar*): HuggingFace
- 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** *IEEE ToM, EMNLP (21, 22, 23), ACL (23), ICML (23).*