

Education

- 2016 - 2020 **University of Amsterdam** - PhD Candidate - Computer Vision - Netherlands
 - Research: action recognition, temporal modeling, video description, visual storytelling
 - Advisors: Arnold Smeulders, Efstratios Gavves
- 2014 - 2015 **University of Southampton** - MSc Artificial Intelligence - UK
 - Computer Vision • Machine Learning • Intelligent Agents • Computational Finance
 - Thesis: End-to-end Hierarchical CNN for Large-Scale Traffic Sign Detection and Recognition
- 2005 - 2012 **Ain Shams University** - BSc Computer and System Engineering - Egypt
 - Software Engineering • Neural Networks • Operating Systems • Computer Networks
 - Data Structures and Algorithms • Computer Security • Computer Architecture
 - Thesis: Arabic Sign Language Recognition in Real Time (Distinction, Award-winning)

Publications

- 2019 **VideoGraph: Recognizing Minutes-Long Human Activities in Videos** - *Under Review*
[N. Hussein](#), E. Gavves and A.W.M. Smeulders
- 2019 **Timeception for Complex Action Recognition** - *CVPR* - [Oral Presentation](#)
[N. Hussein](#), E. Gavves and A.W.M. Smeulders
- 2017 **Unified Embedding and Metric Learning for Zero-Exemplar Event Detection** - *CVPR*
[N. Hussein](#), E. Gavves and A.W.M. Smeulders
- 2016 **Searching Videos, Detecting Events and Describing Videos** - *TRECVID Workshop*
C. Snoek, J. Dong, X. Li, X. Wang, Q. Wei, W. Lan E. Gavves, [N. Hussein](#), D.C. Koelma and A. Smeulders

Professional Experience

- 01.16 - 04.20 **Graduate Research Assistant** - University of Amsterdam - Netherlands
 - Conduct world-class research published in top conferences: CVPR
 - Co-supervising MSc/BSc thesis projects, and assisting in teaching BSc subjects
 - Reviewer for conferences and journals: IEEE-ToM, ACM-MM16, ICCV17, CVPR17, CVPR18
 - Helped in organizing academic conferences: ECCV16, ACM-MM16
- 05.13 - 05.14 **Software Developer** - Breeze IT - UK
 - Designed/developed web and mobile solutions using C#, ASP.Net, MVC, Xamarin
 - Developed educational, augmented reality app for iPad using C#, Unity3D
- 11.12 - 04.13 **Software Development Engineer** - ITWorx - Egypt
 - Saved 60% of server monitoring time by developing automated-monitoring tool
 - Proof of concept and investigation for integrating different technologies

Teaching Experience

- Thesis Supervision**
 - 2019 • Multi-Modal Detection for Boats using Vision and Radar, Juan Buhagiar - *MSc AI*
 - 2018 • Improving Word Embeddings for Zero-Shot Event Localisation, Joop Pascha - *MSc AI*
 - 2017 • Real-Time Composing of Restaurant Label Classifiers Utilizing Word Similarity, Tony Nguyen - *BSc AI*
- Teaching Assistance**
 - 2016, 2018 • Autonomous Mobile Robots - BSc Computer Science, Artificial Intelligence
 - 2017 • Information Visualization - BSc Computer Science

Miscellaneous

- Patents** Unified Embedding and Metric Learning for Zero-Exemplar Event Detection, US 20180137360A1
- Grants** \$50k angel funding from Microsoft to start-up our health-care platform HealthBuzz, 2012 - USA
- Awards**
 - 1st place in Kaggle in-class competition for recommender systems, 2015
 - 3rd place in Microsoft Imagine Cup Grant competition, \$50k angel funding, 2012 - USA
 - 1st place worldwide, Windows Phone category, Microsoft Imagine Cup, \$8k prize, 2012 - Australia
 - 1st place in Software Design, Imagine Cup Egypt, competed in the world finals, 2010 - Poland
- Talks**
 - The road to start-up your idea, Social Innovation Summit, 2012 - USA
 - How I led my team to win the 1st place, Microsoft Middle East Annual Meeting, 2012 - Turkey

Technical Skills

- Deep learning: Keras, TensorFlow, PyTorch, Caffe2, Gensim, Nltk
- Scientific: OpenCV, Scikit-Image, PyLearn, Scikit-Learn, SciPy
- Programming: Python, C#, Java, Matlab, HTML, JavaScript, C++
- Software development: web, mobile, database, algorithms, data structures