



Tom Runia

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Education

- 2016 – **Ph.D. in Computer Science**, University of Amsterdam
Computer Vision and Machine Learning in QUVA Deep Vision Lab
Advisors: Cees G.M. Snoek and Arnold W.M. Smeulders
- 2013 – 2015 **M.S. in Computer Science**, Delft University of Technology
Graduated with distinction, GPA 8.5/10
- 2008 – 2012 **B.S. in Applied Physics**, Delft University of Technology

Employment

- 2014 – 2015 **Research Intern**, TomTom Automotive
Computer Vision in the Autonomous Driving team (C++, OpenCL)
- 2013 – 2015 **Software Engineer**, Dept Agency
Back-end developer in the Operational Services team (C#, .Net)
- 2012 – 2013 **Research Assistant**, Delft University of Technology
Scientific programmer in the Quantitative Imaging group (Java)
- 2009 – 2010 **Software Engineer**, Innovative Design Delft
Back-end developer (JavaScript, PHP)

Publications

- 2018 R. Wever, **T.F.H. Runia**, Subitizing with Variational Autoencoders.
In *European Conference on Computer Vision Workshops (ECCV-W)*
- 2018 **T.F.H. Runia**, C.G.M. Snoek and A.W.M. Smeulders. Repetition
Estimation. Under Review at the *International Journal of Computer
Vision (IJCV)*.

- 2018 **T.F.H. Runia**, C.G.M. Snoek and A.W.M. Smeulders. Real-World Repetition Estimation by Div, Grad and Curl. In *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. (Spotlight presentation)
- 2018 **T.F.H. Runia**, C.G.M. Snoek and A.W.M. Smeulders. Primitive Motion Types for Learning from Instructional Video. In *The Fine-Grained Instructional Video Understanding Workshop (CVPR-W)*.
- 2015 **T.F.H. Runia**, R. Lukassen, L. Zhang and M Loog. The System Design of a High-Speed Object Detector. In *The Dutch Conference on Computer Vision (NCCV)*.

Awards and Grants

- 2016 **e-COST Travel Grant** for the Summer School "Vision and Language" European Cooperation in Science and Technology
- 2015 **Ngi-NGN Award** for best M.S. Thesis in Computer Science (€1.000) The Royal Holland Society of Science and Humanities

Invited Talks

- 2018 **Deep Learning Meet-up** at the Dutch National Police (Amsterdam)

Workshops and Summer Schools

- 2017 **International Computer Vision Summer School** (Catania, Sicily) Summer school participation; Selected for poster presentation
- 2016 **iV&L Summer School** on Vision and Language (Msida, Malta) Summer school participation; Selected for poster presentation

Teaching

- 2016 – **Thesis supervision** for B.S. and M.S. students in Artificial Intelligence University of Amsterdam
- 2017 – 2018 Teaching Assistant: **Deep Learning** Graduate course at the University of Amsterdam
- 2016 Teaching Assistant: **Information Visualization** Undergraduate course at the University of Amsterdam

Professional Service

- 2018 Conference reviewing: CVPR, NIPS, ECCV, BMVC

2017 Conference reviewing: CVPR, NIPS, ICCV, PAMI
2016 Conference reviewing: CVPR, NIPS, ECCV, ACM-MM

Extracurricular Activities

2014 **Entrepreneurial Study Trip** to Silicon Valley (funded by TU Delft)
2012 – 2013 **Board Member**, Study Association for Applied Physics
2009 – 2012 **President**, Electronic Committee, Study Assoc. for Applied Physics
2010 **Editor in Chief**, Magazine for Applied Physics at the TU Delft

Technical Expertise

- **Programming languages.** C++, Java, C#, Python, JavaScript, R, Lua, Matlab
- **Deep learning frameworks.** TensorFlow, PyTorch, Caffe, Theano, Keras
- **Scientific software.** OpenCV, CUDA, OpenCL, LaTeX
- **Miscellaneous.** 3D rendering and animation (Blender, Autodesk 3ds Max)