



Tom Runia

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Education

- 2016 – **Ph.D. in Computer Science**, University of Amsterdam
QUVA Deep Vision Lab (partial funding by Qualcomm Research)
Advisors: Cees G.M. Snoek and Arnold W.M. Smeulders
- 2013 – 2015 **M.S. in Computer Science**, Delft University of Technology
Cum Laude (GPA 8.5/10)
Thesis: High-Speed Object Detection
Advisor: Marco Loog
- 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
- 2013 – 2015 **Software Engineer**, Dept
Back-end developer in the Operational Services team
- 2012 – 2013 **Research Assistant**, Delft University of Technology
Scientific programmer in the Quantitative Imaging group
- 2009 – 2010 **Software Engineer**, Innovative Design Delft
Back-end developer

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. Primitive Motion Types for Learning from Instructional Video. In *The Fine-Grained Instructional Video Understanding Workshop* at CVPR 2018.
- 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.
- 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

- 2015 **Ngi-NGN Award** for best M.S. Thesis in Computer Science (€1.000)
The Royal Holland Society of Science and Humanities

Teaching

- 2016 – 2018 **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

Conference and Journal Reviewing

- 2018 CVPR, ECCV, BMVC, NIPS
- 2017 CVPR, ICCV, NIPS, PAMI
- 2016 CVPR, ECCV, NIPS, ACM MM

Extracurricular Activities

- 2014 **Entrepreneurial Study Trip** to Silicon Valley (Google, Apple, etc.)
- 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