

Personal Info

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Date of birth

29-08-1994

LinkedIn

www.linkedin.com/in/tom-pelsmaeker

GitHub

<https://github.com/tom-pelsmaeker>

WWW

<https://tom-pelsmaeker.github.io/>

Skills

Version control with Git for small projects.

Cloud computing with Amazon AWS, SURFsara Lisa and DAS-4.

Website design with WordPress.

Scientific writing with LaTeX.

Programming Languages

Advanced knowledge of Python, including scientific libraries (SciPy, NumPy), deep learning frameworks (PyTorch, TensorFlow, Caffe) and NLP toolkits (AllenNLP, OpenNMT, Fairseq, HuggingFace, NLTK, SpaCy).

Intermediate knowledge of MATLAB, including EEGLAB for processing of EEG data.

Intermediate knowledge of Java, including deep learning frameworks Deeplearning4j and Neuroph.

Basic knowledge of C, C++, SQL, Lua, JavaScript, PHP, HTML and CSS.

Additional Activities

08-2019 - 09-2019

Machine Learning Summer School (MLSS) in Moscow.

09-2016 - 09-2018

Treasurer in the activity committee of my student association AmsterDance.

Tom Pelsmaeker

Education

- 09-2016 - 02-2019 **MSc Artificial Intelligence, University of Amsterdam**
120 ECTS. Cum laude.
Thesis: Effective Estimation of Deep Generative Models of Language.
- 09-2015 - 09-2016 **Transition Year Artificial Intelligence, University of Amsterdam**
30 ECTS. Weighted average grade: 9.4/10.
- 09-2011 - 09-2014 **BSc Psychology, University of Amsterdam**
212 ECTS. Cum laude, including Honours Programme (32 ECTS).
- 09-2005 - 09-2011 **VWO, VeenLanden College Mijdrecht**
Pre-university education. Specialization: Nature & Technology and Nature & Health.

Experience

- 03-2020 - 06-2020 **Machine Learning Research Engineer (Intern)**
Unbabel, Lisbon
Full-time. Unbabel provides an AI-powered, human-refined translation service. During my internship with the fundamental AI team I researched the effect of noise on machine translation quality. I also parallelised their internal neural training tool, enabling a speed-up of up to a factor of ten. I was supervised by Dr André Martins and Dr Amin Farajian.
- 02-2019 - 02-2020 **PhD Candidate, Machine Learning**
University of Edinburgh, Edinburgh
Full-time. Low-resource machine translation with deep generative models, supervised by Dr Ivan Titov and Dr Alexandra Birch. My responsibilities included research planning, presenting, programming and reading, writing and discussing scientific papers. I created large-scale machine learning models which I trained on GPU-clusters, making extensive use of Pytorch, AllenNLP, Fairseq and OpenNMT. I left to pursue a career in industry.
- 11-2017 - 05-2018 **Research Assistant**
University of Amsterdam, Amsterdam
10 hours per week. Research into natural language generation with generative adversarial networks together with a fellow master's student and a PhD candidate.
- 09-2017 - 01-2018 **Machine Learning Research Engineer (Intern)**
Birds.ai, Delft
Full-time. Birds.ai provides automatic analysis of drone imagery with artificial intelligence to give companies insight into the state of their assets. I helped them to improve their computer vision algorithms for automatic object detection and segmentation, working extensively with Caffe, Torch, Amazon EC2 and Git.
- 09-2014 - 05-2016 **Co-founder**
BrainFitness, Amsterdam
Full-time. BrainFitness was founded by me and two fellow psychology students. Our aim was to provide consumers, companies and health care professionals with novel neurotechnology, and help them use it to combat mental health issues. My responsibilities included marketing, website design, product research, workshop development and management in general.

Publications

- 06-2020 [ACL 2020] Pelsmaeker, T., & Aziz, W. (2019). Effective estimation of deep generative language models. arXiv preprint arXiv:1904.08194.