Tom Pelsmaeker

Personal Info

Address
Heesterveld 252
1102SC Amsterdam

Phone
+31610274516

E-mail
tlpelsmaeker@gmail.com

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.

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.

04-2018 - 02-2019
IT Support
LEREN&ZO, Amsterdam
4-8 hour per week. LEREN&ZO is a tutoring institute for primary and secondary school students. I was responsible for the setup and management of their IT facilities.

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.

10-2014 - 06-2016

Publications

Municipality of Amstelveen, Amstelveen

8 hours per week. I was responsible for publishing issued permits on the website of the municipality.

02-2013 - 02-2015

Project Coordinator

Academie van de Stad, Amsterdam

10 hours per week. Academie van de Stad improves neighbourhoods by having students develop and lead social projects for youth and the elderly. As one of four members of the student team in the Dapperbuurt, Amsterdam, I was responsible for the creation and coordination of a weekly Dutch reading course aimed at young children from minority groups, and for the management of interns.

07-2011 - 03-2013

Store Clerk

Dirck III, Amsterdam

8 hours per week.

Publications

06-2020

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