Serhii Havrylov

Current location	Amsterdam, the Netherlands	**Github**	github.com/serhii-havrylov
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Education

2016 – PhD candidate – Institute for Logic, Language, and Computation, University of Amsterdam

2012 – 2014 MSc in Applied Mathematics – National Technical University of Ukraine
Diploma with honours

2008 – 2012 BSc in Applied Mathematics – National Technical University of Ukraine
Diploma with honours

Work experience

Oct 2013 - Apr 2016 Grammarly
Research engineer

Researching, prototyping and implementing machine learning algorithms for improving the accuracy of Grammarly's language core.

Sep 2015 - Oct 2016 Clashot
Machine learning consultant

Consulting R&D team on how to build automatic image tagging and description generating systems.

May 2013 - Oct 2013 Silver Cup
Quantitative analyst

Applying machine learning techniques for development and improvement trading strategies.

Projects

Quagga – CUDA/Python library that allows multi-GPU utilization by exploiting model parallelism for deep learning architectures [code, documentation]

Project reproduces the model from Show and Tell: A Neural Image Caption Generator [code]

Financial coding of school's budgets and expenditures (5^{th} /50, drivendata) [code, slides]

Applying recurrent neural networks with fast dropout regularization for modeling and classification of human motion (Master's thesis)

Classification of Psychiatric Problems Based on Saccades (2^{nd} award in IJCNN 2012 Competition: International Joint Conference on Neural Networks, Brisbane, Australia)

Development of dynamical visibility algorithm for time series analysis via complex networks, and its application for heart disease classification (Bachelor's thesis)

Publications

Havrylov, S., Titov, I. Emergence of Language with Multi-agent Games: Learning to Communicate with Sequences of Symbols. // ICLR2017 Workshop track

Bražinskas, A., Havrylov, S., & Titov, I. Embedding Words as Distributions with a Bayesian Skip-gram Model. // Bayesian Deep Learning NIPS 2016 Workshop

Gavrylov S.V. Classifying motion capture sequences using recurrent neural networks // SAIT 2014: System analysis and information technologies, Kyiv, Ukraine

Gavrylov S.V., Drobyshev Y.P. Human motion recognition using recurrent neural networks with fast dropout regularization // IAI 2014: XIV International Conference "Intelligent analysis of information", Kyiv, Ukraine

Volunteering, teaching

Natural Language Processing 1, University of Amsterdam, Teacher Assistant, Fall term 2016

Summer school "AACIMP-2015": Theano tutorial, lectures on convolutional neural networks and neural language models, project supervisor

Co-organizer and speaker at Kyiv deep learning study group

Completed Trainings and Online Courses

NetCracker's training center (Java SE/EE, Oracle DB)
Probabilistic Graphical Models, Stanford University
Machine Learning, Stanford University
Networked life, University of Pennsylvania
Learning from data, Caltech

Key Skills

Technical skills

Python with data science stack: NumPy, SciPy, Pandas, scikit-learn, Theano, TensorFlow, PyTorch
CUDA C/C++, Java SE, R, MatLab

Languages

English - full professional proficiency
Ukrainian, Russian - native