

Iryna Korshunova

Location	Ghent, Belgium & London, UK	Website	irakorshunova.github.io
Email	irene.korshunova@gmail.com	Github	github.com/IraKorshunova
		Kaggle	kaggle.com/golondrina

Education

2018-	Visiting PhD student - Gatsby Computational Neuroscience Unit, UCL, London, UK Supervisor: Arthur Gretton
2015-	PhD student in Machine Learning - Reservoir Lab, Ghent University, Belgium
2013-2015	MSc in Statistical Data Analysis - Ghent University, Belgium <i>Magna cum laude</i>
2012-2015	MSc in Applied Mathematics - National Technical University of Ukraine "Kiev Polytechnic Institute" <i>Diploma with honours</i>
2008-2012	BSc in Applied Mathematics - National Technical University of Ukraine "Kiev Polytechnic Institute" <i>Diploma with honours</i>

Extra Courses

2018	Gaussian Process Summer School @ University of Sheffield
2018	Microsoft Research AI Summer School @ MSR Cambridge (received a poster prize)
2015	Deep Learning Summer School @ University of Montreal
2015	Machine Learning Summer School @ Max Planck Institute, Tübingen (received a travel stipend)

Work experience

Summer, 2017	Twitter, London, UK <i>Research Intern</i> Supervisors: Lucas Theis, Ferenc Huszár Pruned neural networks, contributed to PyTorch
Summer, 2016	Twitter / Magic Pony Technology, London, UK <i>Research Intern</i> Supervisors: Lucas Theis, Ferenc Huszár Developed a real-time face swapping method based on neural style transfer
Summer, 2013	Grammarly, Kiev, Ukraine <i>Research Engineer Intern</i> Worked on the evaluation of topic models and their integration into a contextual spell checker

Awards

2017	Data Science Bowl 2017 (Kaggle) <i>9th place, \$25K prize, team Deep Breath</i> Lung cancer prediction from chest CT scans
2016	Second Annual Data Science Bowl (Kaggle) <i>2th place, \$50K prize, team kunsthart</i> Cardiac volumes estimation based on 4D MRI-data of a heart

- 2015 National Data Science Bowl (Kaggle)
1st place, \$100K prize, team Deep Sea
 Classification of plankton images
- 2014 American Epilepsy Society Seizure Prediction Challenge (Kaggle)
10th place, top 2%
 Epileptic seizure prediction based on iEEG signals

Publications

Iryna Korshunova, Jonas Degraeve, Ferenc Huszár, Yarin Gal, Arthur Gretton, Joni Dambre. BRUNO: A Deep Recurrent Model for Exchangeable Data. *Accepted to Neural Information Processing Systems (NIPS), 2018*; preprint arXiv:1802.07535.

Lucas Theis, **Iryna Korshunova**, Alykhan Tejani, Ferenc Huszár. Faster gaze prediction with dense networks and Fisher pruning. *Preprint arXiv:1801.05787*, 2018.

Iryna Korshunova, Wenzhe Shi, Joni Dambre, Lucas Theis. Fast face-swap using convolutional neural networks. *IEEE International Conference on Computer Vision (ICCV), 2017*; arXiv:1611.09577

Iryna Korshunova, Pieter-Jan Kindermans, Jonas Degraeve, Thibault Verhoeven, Benjamin Brinkmann, Joni Dambre. Towards improved design and evaluation of epileptic seizure predictors. *IEEE Transactions on Biomedical Engineering*, 2017; DOI: 10.1109/TBME.2017.2700086

Benjamin H. Brinkmann, Joost Wagenaar,..., **Iryna Korshunova** et al. Crowdsourcing reproducible seizure forecasting in human and canine epilepsy. *Brain Jun 2016, 139 (6) 1713-1722*; DOI: 10.1093/brain/aww045

Bob L. Sturm, João F. Santos, Oded Ben-Tal, **Iryna Korshunova**. Music transcription modelling and composition using deep learning. *1st Conference on Computer Simulation of Musical Creativity*; arXiv:1604.08723 [code]

Bob L. Sturm, João F. Santos, and **Iryna Korshunova**. Folk music style modelling by recurrent neural networks with long short term memory units. *International Society for Music Information Retrieval conference, 2015* [pdf, code]

Iryna Korshunova Epileptic seizure prediction using deep learning. *Master dissertation, 2015* [pdf]

Iryna Korshunova Classification of functional data with free knots splines. *System Research and Information Technologies 2014, 115–124*; [abstract]

Other

Languages

Ukrainian, Russian - native
 English - full professional proficiency
 Dutch - intermediate

Personal interests

Playing cello (formerly at Ghent University Symphony Orchestra)