

# Curriculum vitae

## Personal information

Name and surname: Iryna Korshunova

E-mail: [irene.korshunova@gmail.com](mailto:irene.korshunova@gmail.com)

Current location: Ghent, Belgium

Date of birth: 27 April, 1991

LinkedIn: <https://www.linkedin.com/in/IraKorshunova>

Github: <https://github.com/IraKorshunova>

Kaggle: <http://www.kaggle.com/users/190873/golondrina>

## Education

PhD in Machine Learning

topic: “Sign language translation using deep learning”

Sept. 2015 – 2019

Ghent University, Belgium

MSc in Statistical Data Analysis

Sept. 2013 – Sept. 2015

Ghent University, Belgium

magna cum laude

MSc in Applied Mathematics

Sept. 2012 – June 2015

Faculty of applied mathematics,

diploma with honours

National Technical University of Ukraine “Kiev Polytechnic Institute”

BSc in Applied Mathematics

Sept 2008 – Sept 2012

Faculty of applied mathematics,

diploma with honours

National Technical University of Ukraine “Kiev Polytechnic Institute”

## Extra courses

Machine Learning Summer School , Tuebingen 2015

Deep Learning Summer School, Montreal 2015 [[poster](#)]

## Projects and research

**Python+Theano** (2014-2015):

- [National Data Science Bowl](#) ( $\approx$  Deep Sea  $\approx$  team 1<sup>st</sup>/1049, Kaggle) [[blog post](#)]
- [American Epilepsy Society Seizure Prediction Challenge](#) (10<sup>th</sup>/504, Kaggle) [[code](#), [blog post](#)]
- [DecMeg2014 - Decoding the Human Brain](#) (19<sup>th</sup>/ 267, Kaggle)
- [UPenn and Mayo Clinic's Seizure Detection Challenge](#) (56<sup>th</sup>/200, Kaggle) [[code](#)]

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### C++ (2013):

- Numerically stable implementation of Viterbi and Forward-Backward algorithms in context of Hidden Markov Models [[code](#)]

### Java (2010-2012):

- [Classification of psychiatric problems based on saccades](#) (2<sup>nd</sup> award in IJCNN 2012 Competition: International Joint Conference on Neural Networks, Brisbane, Australia)
- Classifier of the bone shapes for arthritis diagnostics with free-knot splines
- Application for melody generation and its harmonization [[code](#)]
- Illustrative 3D visualization software for differential evolution

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## Work Experience

### Research Engineer Intern

Grammarly, Inc., Kiev, Ukraine

created a multipurpose Wikipedia-based corpus; trained a topic model and implemented an algorithm for its evaluation, integrated this model into contextual spell checker; compared the performance of several named-entity recognizers (used Java SE, Mallet, Apache OpenNLP)

Summer 2013

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## Publications

- *Iryna Korshunova, Pieter Buteneers, Sander Dieleman, Joni Dambre* Epileptic seizure prediction using convolutional neural networks // 31 st International Epilepsy Congress, Istanbul 5-9 Sept, 2015 (accepted for a best poster)
- *Iryna Korshunova* Free knot splines for functional data classification // SAIT 2012: International Conference on System Analysis and Information Technologies, Kyiv, Ukraine
- *Iryna Korshunova* Classification of functional data with free knots splines // System Research and Information Technologies. — 2014. — № 2. — P. 115–124. [[abstract](#)]

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## Skills and competences

### Computer skills

- Programming languages: Python (+Theano), R, Java SE
- Other: Linux, Git, LaTeX, Weka

### Languages

- English – fluent
- Dutch – beginner
- Ukrainian, Russian – native

### Other

- Playing cello (currently at Ghent University Symphony Orchestra)
  - Hiking
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