

Ekaterina Antonenko

Education

- since 2020 **École Polytechnique**, *PhD candidate*.
Data Science and Mining (DaSciM) team, Laboratoire d'informatique (LIX)
Scientific advisor: Jesse Read
- 2014–2016 **British Higher School of Art & Design**, *2D-animation*.
- 2012–2014 **Moscow Bioinformatics School**.
- 2009–2014 **Moscow State University**, *Diploma in Mathematics*.

Employment

- since 2020 **Data scientist**, *DigitalentLab, MIA (Paris, France)*.
- 2017–2018 **Math instructor**, *Russian School of Mathematics (New York, USA)*.

Preprints

1. E. Antonenko, A. Carreño, J. Read, *Missing Value Imputation with Multi-label Random Forests*
2. M. Konnova, E. Antonenko, J. Read, *Missing Value Imputation for Genomics Data using a Sequence Based Generative Adversarial Network*
3. E. Antonenko, M. Mechenich, R. Beigaite, I. Zliobaite, J. Read, *Probabilistic prediction of land cover at the global scale: modeling absence of human activity*

Publications

1. E. Antonenko, J. Read, *Chains of Autoreplicative Random Forests for missing value imputation in high-dimensional datasets*, [Best paper award], Multi-Label Learning workshop at the ECML conference, 2022, <https://arxiv.org/abs/2301.00595/>.
2. E. Antonenko, J. Read, *Multi-modal ensembles of regressor chains for multi-output prediction*, Advances in Intelligent Data Analysis XXI - 21st International Symposium, IDA 2022, 2022.
3. V. Ivanenko, E. Antonenko, M. Gelfand, J. Yager, F. Ferrari, *Changes in segmentation and setation along the anterior/posterior axis of the homonomous trunk limbs of a remipede (Crustacea, Arthropoda)*, PeerJ, 2016, <https://peerj.com/articles/2305/>.

Talks

1. *Chains of Autoreplicative Random Forests for missing value imputation in high-dimensional datasets*, Multi-Label Learning workshop: current trends and open challenges, ECML PKDD 2022, Grenoble, France, September 2022.

2. *Multi-modal ensembles of regressor chains for multi-output prediction*, Intelligent Data Analysis XXI - 21st International Symposium, IDA 2022, Rennes, France, April 2022.

Teaching

- CSE204 Machine Learning (Bachelor Programme), Teaching assistant, *Ecole Polytechnique*, Spring 2023.
- CSE204 Machine Learning (Bachelor Programme), Teaching assistant, *Ecole Polytechnique*, Spring 2022.

Additional training

- Data Science: Multiple Imputation in Practice, *Utrecht University, The Netherlands*, July 2022.
- Introduction to quantitative genetics, *MIPT, Russia*, Autumn 2021.
- Summer School on Machine Learning in Bioinformatics, *HSE University, Russia*, August 2020.

Completed online-courses

- AI for Medicine Specialization, *Deeplearning.ai*, 2021, [Certificate](#).
- Deep Learning Specialization, *Deeplearning.ai*, 2020, [Certificate](#).
- Machine Learning, *Stanford University*, 2019, [Certificate](#).
- Molecular Biology – Part 3: RNA Processing and Translation, *Massachusetts Institute of Technology*, 2019, [Certificate](#).
- Molecular Biology – Part 2: Transcription and Transposition, *Massachusetts Institute of Technology*, 2019, [Certificate](#).
- Molecular Biology – Part 1: DNA Replication and Repair, *Massachusetts Institute of Technology*, 2018, [Certificate](#).
- Quantitative Biology Workshop, *Massachusetts Institute of Technology*, 2018, [Certificate](#).
- Introduction to Biology – The Secret of Life, *Massachusetts Institute of Technology*, 2018, [Certificate](#).
- Bioinformatics Algorithms (Part 1), *University of California, San Diego*, 2014, [Certificate](#).

Additional skills

- Programming: Python, R, MatLab
- Languages: Russian (native), English (fluent), French (intermediate)