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# Ekaterina Chernyak

Researcher

## Mail

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## Web & Git

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hse.ru/en/staff/echernyak  
github.com/echernyak

## Experience

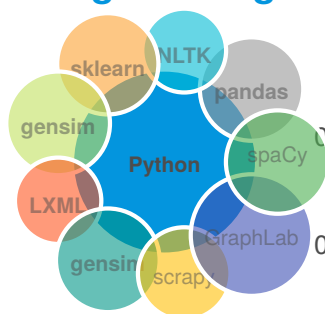
09/13 - Now **Senior lecturer** HSE

- Introductory courses on NLP and ML for BSc and MSc students
- Advanced NLP course for PhD students

09/13 - Now **Researcher** HSE

- Accent detection in Russian words
- Scholar trajectory modelling
- Word embeddings for literary studies
- Medical history standartization

## Programming



06/16 - 01/17 **Visiting researcher** UKP, TU Darmstadt

- Developing a tool for unsupervised event extraction

07/10 - 09/10 **Intern** COPSRO, New University of Lisbon

- Developing a tool for multi-label text classification

## Research interests

Timeline creation,  
event extraction and  
event ordering  
Multimodal NLP  
Text visualization  
Distributional  
semantics  
Information and  
knowledge extraction  
Digital humanities  
Deep learning  
NLP techniques for  
Russian

## Education

2012 - 2016 **Candidate of Sciences (PhD) in NLP** HSE

PhD thesis topic: "Annotated suffix tree as a tool for text representation"

2010 - 2012 **Master's Degree (MSc) in Data Science** HSE

MSc thesis topic: "Semi-supervised taxonomy construction using Wikipedia data"

2006 - 2010 **Bachelor's Degree (BSc) in Applied Mathematics** HSE

BSc thesis topic: "Annotated suffix tree-based string to text relevance"

## Other

15, 16, 17 **Summer University** HSE

"Introduction to NLP" lectures and practise classes (in English)

16, 17 **Adult education centre** HSE

"Introduction to NLP" lectures and practise classes

09/11–06/16 **Methods for text analysis and visualisation** HSE

The aims of the project were constructing web corpus of newspapers visualisation of the corpus by means of conceptual maps

09/13–06/13 **Teaching assistant** HSE

MOOC "Core concepts in Data Analysis" on Coursera by Prof. Boris Mirkin

## Languages

Russian ★★★★★  
English ★★★★★  
German ★★★★★  
Hebrew ★★★★★

HSE always stands for Computer Science Faculty of National Research University – Higher School of Economics, Moscow, Russia.

## Selected papers

1. Chernyak E., Mirkin B. Refining a Taxonomy by Using Annotated Suffix Trees and Wikipedia Resources, in: Annals of Data Science. 2015. Vol. 2. No. 1. P. 61-82
2. Chernyak E. An approach to the problem of annotation of research publications, in: Proceedings of The Eighth International Conference on Web Search and Data Mining. NY, United States of America: ACM, 2014. Ch. 58. P. 429-434
3. Rodin I., Chernyak E., Dubov M., Mirkin B. Visualization of Dynamic Reference Graphs, in: Proceedings of TextGraphs-10: the Workshop on Graph-based Methods for Natural Language Processing, San Diego, CA, USA, ACL, pp.34-38, 2016
4. Ilvovsky D., Chernyak E. Natural Language Processing Software, in: Open System Publications, 2014, Ch. 1, P. 51-53. (in Russian)