Anastasia Kobzeva

About me

I am a PhD Candidate in computational psycholinguistics at NTNU transitioning to data science. I have a strong foundation in natural language processing, data handling and statistical analysis, and experimental research design.

Contact details

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Personal information

Citizenship: Russian Federation
Residence: Norway (permanent oppholdstillatelse)
Languages: Russian (native), English (C1), Norwegian (B2), German (B1), French (A2)

Skills

- Python, R, basic SQL
- Version control: git
- MS Office, LaTeX
- OS: UNIX and Windows
- Academic writing
- Research dissemination
- Teaching

Work and Volunteer Work Experience

Volunteer Data Analyst at *ReStore (NO)* **Feb 2024–pres.**
◇ I am an active member of the ReSearch group, where we analyze data on CO2 emissions saved by ReStore in Trondheim. Recently, I developed a Streamlit-hosted Python app to track visitors during ReStore openings, significantly reducing volunteer effort. Currently, I am automating data handling processes by building Python pipelines for data pre-processing, analysis, and visualization.

Researcher at *City University of New York (US)* **Apr 2019–Jun 2019**
◇ I did a research internship at the Eye-Tracking and Language Processing Laboratory where I collected and analyzed quantitative experimental data using Python and R.

Researcher at *Center for Language and Brain (RU)* **Jul 2014–Dec 2015**
◇ I developed and standardized the syntax sub-test of the Russian Aphasia Test, collected and analyzed experimental data from individuals with aphasia.

Volunteer Teacher of Russian at *UiT (NO)* **Feb 2016–May 2016**
◇ I taught Russian as a foreign to a group of 10 students (beginner level).

Education

PhD in Computational Psycholinguistics **2020–2024**
Norwegian University of Science and Technology (NO)
◇ Thesis: *Computational modeling of filler-gap acquisition in Norwegian* (supervised by Dave Kush and Tal Linzen)
◇ I trained statistical and neural language models (n-gram/LSTM/GPT2) to explore their ability to learn a specific linguistic phenomenon in Norwegian.
◇ My PhD involved experimental design, data collection, analysis, and visualization, as well as academic writing and research dissemination.
◇ I managed EyeLands Lab and taught BA and MA courses at NTNU.

MSc in Clinical Linguistics, Joint Degree (EMCL+) **2017–2019**
U. of Groningen (NL), U. of Potsdam (DE), U. of Eastern Finland (FI)
◇ Thesis: *Distributional properties of input in heritage language acquisition*
◇ Coursework: Neurolinguistics, Psycholinguistics, Neuroimaging, Language Acquisition, Statistics, Programming
◇ Overall grade: A (excellent)

BA in Fundamental and Computational Linguistics **2013–2017**
National Research U. Higher School of Economics, Moscow (RU)
◇ Thesis: *Exploring the Relationship between Working Memory Capacity and Syntactic Deficits in Aphasia*
◇ Coursework: Theory of Language, Natural Language Processing, Programming, Probability Theory, Statistics, Algorithms, Experimental Linguistics
◇ GPA: 9.12/10

Selected Research Publications

◇ Kobzeva, A. & Kush, D. (2024). Grammar and Expectation in Active Dependency Resolution: Experimental and Modeling Evidence from Norwegian. *Journal of Cognitive Science.* Paper

◇ Kobzeva, A., Arehalli, S., Linzen, T. & Kush, D. (2023). Neural Networks Can Learn Patterns of Island-insensitivity in Norwegian. In *Proceedings of the Society for Computation in Linguistics*. Paper

◇ Kobzeva, A., Arehalli, S., Linzen, T. & Kush, D. (2022). LSTMs Can Learn Basic Wh-and Relative Clause Dependencies in Norwegian. In *Proceedings of the Annual Meeting of the Cognitive Science Society*. Paper