

IRINA SAPARINA

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PROFILE

I am a 3rd year Ph.D. student at the University of Edinburgh, under the supervision of Prof. [Mirella Lapata](#). I work on Natural Language Processing and Understanding, with a research focus on Semantic Parsing and Code Generation, particularly in text-to-SQL semantic parsing. My primary area of interest is addressing linguistic variability and ambiguity.

EDUCATION

Ph.D. student in Informatics, The University of Edinburgh Thesis: Linguistic Variability and Ambiguity in Semantic Parsing	October 2022 - present <i>Edinburgh, UK</i>
Ph.D. student in Computer Science, HSE University (GPA: 9.5/10.0) Thesis: Augmenting Semantic Parsing with Intermediate Representations and Search	November 2020 - August 2022 <i>Moscow, Russia</i>
Master of Computer Science, HSE University (GPA: 9.5/10.0) Thesis: Cost-sensitive training for autoregressive models	September 2018 - June 2020 <i>Moscow, Russia</i>
Bachelor of Computer Science, Moscow State University (GPA: 4.9/5.0) Thesis: Language-Independent Methods of Extracting Keywords in Web Texts	September 2014 - June 2018 <i>Moscow, Russia</i>

WORK EXPERIENCE

Yandex Research , Research Assistant Improved training and inference in text-to-SQL semantic parsing using auxiliary annotation.	July 2020 - September 2022 <i>Moscow, Russia</i>
Samsung Laboratory , Research Assistant Developed imitation learning algorithms for training sequence prediction models.	June 2018 – July 2020 <i>Moscow, Russia</i>
Laboratory of Programming Technologies, Moscow State University , Intern Developed a Python tool for analyzing texts posted on social media.	June 2017 – September 2017 <i>Moscow, Russia</i>

PUBLICATIONS

AMBROSIA: A Benchmark for Parsing Ambiguous Questions into Database Queries. Irina Saparina and Mirella Lapata. <i>NeurIPS 2024 (Spotlight).</i>	PDF , Website
Improving Generalization in Semantic Parsing by Increasing Natural Language Variation. Irina Saparina and Mirella Lapata. <i>EACL 2024 (Oral).</i>	PDF , Code
Searching for Better Database Queries. Anton Osokin and Irina Saparina and Ramil Yarullin. <i>Findings of EACL 2023.</i>	PDF , Code
SPARQLing Database Queries from Intermediate Question Decompositions. Irina Saparina and Anton Osokin. <i>EMNLP 2021.</i>	PDF , Code
Cost-Sensitive Training for Autoregressive Models. Irina Saparina and Anton Osokin. <i>WiML @ NeurIPS 2019.</i>	PDF

SKILLS

- Python (daily use), SQL, C/C++
- PyTorch, HF Transformers, Git, Docker, Linux, Slurm, Kubernetes, LaTeX
- Reviewer: WiML @ NeurIPS 2019, EMNLP 2023, ACL ARR 2024 February (ACL 2024), June (EMNLP 2024)