

Igor Rozhkov

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Research Interests

Nested Named Entity Recognition, Relation Extraction, Biomedical NLP, Domain Adaptation for Information Retrieval

Publications

- Methods for Recognizing Nested Terms** May 2025
Igor Rozhkov, Natalia Loukachevitch
[10.48550/arXiv.2504.16007](https://arxiv.org/abs/10.48550/arXiv.2504.16007)
- Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream** Jan 2025
N. V. Loukachevitch, *I. S. Rozhkov*, B. V. Dobrov
(Programming and Computational Mathematics: Proceedings of the Conference Dedicated to the 100th Anniversary of N. P. Trifonov)
- NEREL: A Russian Information Extraction Dataset with Rich Annotation for Nested Entities, Relations, and Wikidata Entity Links** June 2024
Natalia Loukachevitch, Ekaterina Artemova, Tatiana Batura, Pavel Braslavski, Vladimir Ivanov, Suresh Manandhar, Alexander Pugachev, *Igor Rozhkov*, Artem Shelmanov, Elena Tutubalina, Alexey Yandutov
[10.1007/s10579-023-09674-z](https://www.aclweb.org/anthology/10.1007/s10579-023-09674-z) (Language Resources and Evaluation)
- Pre-trained Language Models for Nested Named Entity Recognition** Jan 2024
N. V. Loukachevitch, *I. S. Rozhkov*
(Lomonosov Readings 2024: Scientific Conference, Faculty of CMC, Lomonosov Moscow State University. Abstracts)
- Machine Reading Comprehension Model in Domain-Transfer Task** Aug 2023
I. S. Rozhkov, N. V. Loukachevitch
[10.1134/S1995080223080504](https://doi.org/10.1134/S1995080223080504) (Lobachevskii Journal of Mathematics)
- Prompts in Few-Shot Named Entity Recognition** June 2023
I. S. Rozhkov, N. V. Loukachevitch
[10.1134/S1054661823020104](https://doi.org/10.1134/S1054661823020104) (Pattern Recognition and Image Analysis)
- NEREL-BIO: A Dataset of Biomedical Abstracts Annotated with Nested Named Entities** Jan 2023
Natalia Loukachevitch, Suresh Manandhar, Elina Baral, *Igor Rozhkov*, Pavel Braslavski, Vladimir Ivanov, Tatiana Batura, Elena Tutubalina
(Bioinformatics)
- RuNNE-2022 Shared Task: Recognizing Nested Named Entities** June 2022
Ekaterina Artemova, Maxim Zmeev, Natalia Loukachevitch, *Igor Rozhkov*, Tatiana Batura, Vladimir Ivanov, Elena Tutubalina
[10.28995/2075-7182-2022-21-33-41](https://doi.org/10.28995/2075-7182-2022-21-33-41) (COMPUTATIONAL LINGUISTICS AND INTELLECTUAL TECHNOLOGIES)
- Machine Reading Comprehension Model in RuNNE Competition** June 2022
Igor Rozhkov, Natalia Loukachevitch
[10.28995/2075-7182-2022-21-488-496](https://doi.org/10.28995/2075-7182-2022-21-488-496) (Computational Linguistics and Intellectual Technologies)

Education

BSc,	Lomonosov Moscow State University , Computer Science, NLP	Moscow, Russia
	<ul style="list-style-type: none">Thesis: A Study of Methods for Automatic Nested Named Entity RecognitionAdvisor: Natalia Loukachevitch	2018 – 2022
MSc,	Lomonosov Moscow State University , Computer Science, NLP	Moscow, Russia
	<ul style="list-style-type: none">Thesis: Recognizing nested entities based on flat annotationAdvisor: Natalia Loukachevitch	2022 – 2024
PhD	Lomonosov Moscow State University , Computer Science, NLP	Moscow, Russia
(in progress)	Thesis: Methods for Nested Named Entity Recognition	2024 – present
	<ul style="list-style-type: none">Advisor: Natalia Loukachevitch	

Conference Presentations

Dialogue Evaluation 2022	2022
<ul style="list-style-type: none">Machine Reading Comprehension Model in RuNNE Competition (oral)	
Huawei workshop ‘ML/AI/NLP for search-engine performance improvement’	2022
<ul style="list-style-type: none">Prompts in few-shot and cross-domain tasks of nested named entity recognition	
Lomonosov Readings 2024, Section of Computational Mathematics and Cybernetics	2024
<ul style="list-style-type: none">Pre-trained Language Models for Nested Named Entity Recognition (oral)	
Conference ‘Programming and Computational Mathematics’ Dedicated to the 100th Anniversary of N. P. Trifonov	2025
<ul style="list-style-type: none">Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream (oral)	

Experience

Research Computing Center of Lomonosov Moscow State University , Researcher	Moscow, Russia
<ul style="list-style-type: none">Research on nested NER and RE methods, biomedical NLP, dataset development, shared task organization	2022 – present 4 years
Ivannikov Institute for System Programming of the Russian Academy of Sciences , Research Intern	Moscow, Russia
<ul style="list-style-type: none">Research on LLM evaluation in domain-specific settings; hallucination detection using information retrieval methods	2024 – present 2 years

Teaching Assistantship

Methods and Tools of Information Retrieval	2024
Methods and Tools of Information Retrieval	2025
Departmental Practicum	2025

Professional Service

Developed baseline system for RuNNE-2022 Shared Task	2022
BioNNE-R Shared Task competition at CLEF 2026 BioASQ	2026

Awards

Lomonosov Moscow State University Scholarship for Young Researchers, Graduate Students, and Students with Outstanding Achievements in Teaching and Research	2024
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Skills

Technical Skills: Python, PyTorch, HuggingFace Transformers, Docker

Languages

English: C1

Russian / Русский: Native

Japanese / 日本語: B1 level / JLPT N4