

# 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/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://doi.org/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**

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<b>Lomonosov Moscow State University</b> , Computer Science, NLP	Moscow, Russia
• Thesis: A Study of Methods for Automatic Nested Named Entity Recognition	2018 – 2022
• Advisor: Natalia Loukachevitch	
<b>Lomonosov Moscow State University</b> , Computer Science, NLP	Moscow, Russia
• Thesis: Recognizing nested entities based on flat annotation	2022 – 2024
• Advisor: Natalia Loukachevitch	
<b>Lomonosov Moscow State University</b> , Computer Science, NLP	Moscow, Russia
• Thesis: Methods for Nested Named Entity Recognition	2024 – present
• Advisor: Natalia Loukachevitch	

## **Conference Presentations**

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<b>Dialogue Evaluation 2022</b>	2022
• Machine Reading Comprehension Model in RuNNE Competition (oral)	
<b>Huawei workshop ‘ML/AI/NLP for search-engine performance improvement’</b>	2022
• Prompts in few-shot and cross-domain tasks of nested named entity recognition	
<b>Lomonosov Readings 2024, Section of Computational Mathematics and Cybernetics</b>	2024
• Pre-trained Language Models for Nested Named Entity Recognition (oral)	
<b>Conference ‘Programming and Computational Mathematics’ Dedicated to the 100th Anniversary of N. P. Trifonov</b>	2025
• Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream (oral)	

## **Experience**

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<b>Research Computing Center of Lomonosov Moscow State University</b> , Researcher	Moscow, Russia
• Research on nested NER and RE methods, biomedical NLP, dataset development, shared task organization	2022 – present 4 years
<b>Ivannikov Institute for System Programming of the Russian Academy of Sciences</b> , Research Intern	Moscow, Russia
• Research on LLM evaluation in domain-specific settings; hallucination detection using information retrieval methods	2024 – present 2 years

## **Teaching Assistantship**

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<b>Methods and Tools of Information Retrieval</b>	2024
<b>Methods and Tools of Information Retrieval</b>	2025

<b>Departmental Practicum</b>	2025
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## **Professional Service**

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

## **Awards**

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<b>Lomonosov Moscow State University Scholarship for Young Researchers, Graduate Students, and Students with Outstanding Achievements in Teaching and Research</b>	2024
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## **Skills**

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<b>Technical Skills:</b> Python, PyTorch, HuggingFace Transformers, Docker
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## **Languages**

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**English:** C1

**Russian / Русский:** Native

**Japanese / 日本語:** B1 level / JLPT N4