

Igor Rozhkov

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Research Interests

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

Education

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

Publications

Methods for Recognizing Nested Terms <i>Igor Rozhkov</i> , Natalia Loukachevitch 10.48550/arXiv.2504.16007	May 2025
Domain-Specific Named Entity Extraction from a Heterogeneous Input Stream N. V. Loukachevitch, <i>I. S. Rozhkov</i> , B. V. Dobrov (Programming and Computational Mathematics: Proceedings of the Conference Dedicated to the 100th Anniversary of N. P. Trifonov)	Jan 2025
NEREL: A Russian Information Extraction Dataset with Rich Annotation for Nested Entities, Relations, and Wikidata Entity Links Natalia Loukachevitch, Ekaterina Artemova, Tatiana Batura, Pavel Braslavski, Vladimir Ivanov, Suresh Manandhar, Alexander Pugachev, <i>Igor Rozhkov</i> , Artem Shelmanov, Elena Tutubalina, Alexey Yandutov 10.1007/s10579-023-09674-z (Language Resources and Evaluation)	June 2024
Pre-trained Language Models for Nested Named Entity Recognition N. V. Loukachevitch, <i>I. S. Rozhkov</i> (Lomonosov Readings 2024: Scientific Conference, Faculty of CMC, Lomonosov Moscow State University. Abstracts)	Jan 2024
Machine Reading Comprehension Model in Domain-Transfer Task <i>I. S. Rozhkov</i> , N. V. Loukachevitch 10.1134/S1995080223080504 (Lobachevskii Journal of Mathematics)	Aug 2023
Prompts in Few-Shot Named Entity Recognition <i>I. S. Rozhkov</i> , N. V. Loukachevitch 10.1134/S1054661823020104 (Pattern Recognition and Image Analysis)	June 2023
NEREL-BIO: A Dataset of Biomedical Abstracts Annotated with Nested Named Entities Natalia Loukachevitch, Suresh Manandhar, Elina Baral, <i>Igor Rozhkov</i> , Pavel Braslavski, Vladimir Ivanov, Tatiana Batura, Elena Tutubalina (Bioinformatics)	Jan 2023

RunNE-2022 Shared Task: Recognizing Nested Named Entities Ekaterina Artemova, Maxim Zmeev, Natalia Loukachevitch, <i>Igor Rozhkov</i> , Tatiana Batura, Vladimir Ivanov, Elena Tutubalina 10.28995/2075-7182-2022-21-33-41 (COMPUTATIONAL LINGUISTICS AND INTELLECTUAL TECHNOLOGIES)	June 2022
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Machine Reading Comprehension Model in RunNE Competition <i>Igor Rozhkov</i> , Natalia Loukachevitch 10.28995/2075-7182-2022-21-488-496 (Computational Linguistics and Intellectual Technologies)	June 2022
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Conference Presentations

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

Experience

Research Computing Center of Lomonosov Moscow State University , Researcher	Moscow, Russia 2022 – present 4 years
Ivannikov Institute for System Programming of the Russian Academy of Sciences , Research Intern	Moscow, Russia 2024 – present 2 years

Teaching Assistance

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

Professional Service

RunNE-2022 baseline organization	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

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Languages

English: C1

Russian / Русский: Native

Japanese / 日本語: B1 level / JLPT N4