Ekaterina Artemova

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🎓 Academic Positions

Postdoctoral Researcher   **2019-present**
HSE University, Moscow, Russia
Topics: Natural Language Processing
  – Analysing and interpreting neural networks
  – Benchmarking in NLP
  – Natural language understanding
  – NLP for social sciences

Senior Lecturer   **2016-present**
HSE University, Moscow, Russia
Courses: Deep Learning for NLP

📚 Education

PhD in Mathematical Models, Numerical Methods and Integrated Software   **Nov, 2016**
Institute of Systems Analysis Russian Academy of Sciences, Moscow, Russia
Topic: Character-level langugage models for morphologically-rich languages
Advisor: Prof., Dr. Boris Mirkin

BSc & MSc in Computer Science   **2006-2012**
HSE University, Moscow, Russia

💰 Funding

Cross-lingual Knowledge Base Construction and Maintenance   **2019-2022**
Russian Scientific Fund Grant, PI: Dr. Natalia Loukachevitch
Role: lead a team of MSc and PhD students to develop information extraction models

Next-generation computational linguistics platform for the Russian language digital recording   **2019-2022**
Russian Ministry of Education and Science, PI's: Dr. Andrey Sobolevsky, Dr. Anastasia Bonch-Osmolovskaya
Role: lead a team of MSc and PhD students to create novel datasets in Russian

Industrial fellowship   **2020-2022**
Huawei Noah's Ark Lab
Role: develop models for dialogue systems

📑 Selected Peer-Reviewed Publications

[1] L. Kushnareva, D. Cherniavskii, V. Mikhailov, **Artemova, E.**, S. Barannikov, A. Bernstein, I. Piontkovskaya, D. Piontkovski, and E. Burnaev, "Artificial Text Detection via Examining the Topology of Attention Maps", in Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (2021), pp. 635–649.

[2] A. Podolskiy, D. Lipin, A. Bout, **Artemova, E.**, and I. Piontkovskaya, "Revisiting Mahalanobis Distance for Transformer-Based Out-of-Domain Detection", in Proceedings of the AAAI Conference on Artificial Intelligence, Vol. 35, 15 (2021), pp. 13675–13682.

[3] A. Shelmanov, D. Puzyrev, L. Kupriyanova, D. Belyakov, D. Larionov, N. Khromov, O. Kozlova, **Artemova, E.**, D. V. Dylov, and A. Panchenko, "Active Learning for Sequence Tagging with Deep Pre-trained Models and Bayesian Uncertainty Estimates", in Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics (2021), pp. 1698–1712.

[4] P. Burnyshev, V. Malykh, A. Bout, **Artemova, E.**, and I. Piontkovskaya, "Single example can improve zero-shot data generation", in Proceedings of the 14th International Conference on Natural Language Generation (2021), pp. 201–211.

[5] N. Loukachevitch, **Artemova, E.**, T. Batura, P. Braslavski, I. Denisov, V. Ivanov, S. Manandhar, A. Pugachev, and E. Tutubalina, "NEREL: A Russian Dataset with Nested Named Entities, Relations and Events", in Proceedings of the International Conference on Recent Advances in Natural Language Processing (RANLP 2021) (2021), pp. 876–885.

[6] E. Taktasheva, V. Mikhailov, and **Artemova, E.**, "Shaking Syntactic Trees on the Sesame Street: Multilingual Probing with Controllable Perturbations", in Proceedings of the 1st Workshop on Multilingual Representation Learning (2021), pp. 191–210.

[7] V. Malykh, K. Chernis, **Artemova, E.**, and I. Piontkovskaya, "SumTitles: a Summarization Dataset with Low Extractiveness", in Proceedings of the 28th International Conference on Computational Linguistics (2020), pp. 5718–5730.

[8] V. Logacheva, D. Teslenko, A. Shelmanov, S. Remus, D. Ustalov, A. Kutuzov, **Artemova, E.**, C. Biemann, S. P. Ponzetto, and A. Panchenko, "Word Sense Disambiguation for 158 Languages using Word Embeddings Only", English, in Proceedings of the 12th Language Resources and Evaluation Conference (2020), pp. 5943–5952.

[9] T. Shavrina, A. Fenogenova, E. Anton, D. Shevelev, **Artemova, E.**, V. Malykh, V. Mikhailov, M. Tikhonova, A. Chertok, and A. Evlampiev, "RussianSuperGLUE: A Russian Language Understanding Evaluation Benchmark", in Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP) (2020), pp. 4717–4726.

[10] V. Mikhailov, E. Taktasheva, E. Sigdel, and **Artemova, E.**, "RuSentEval: Linguistic Source, Encoder Force!", in Proceedings of the 8th Workshop on Balto-Slavic Natural Language Processing (2021), pp. 43–65.

[11] V. Mikhailov, O. Serikov, and **Artemova, E.**, "Morph Call: Probing Morphosyntactic Content of Multilingual Transformers", in Proceedings of the Third Workshop on Computational Typology and Multilingual NLP (2021), pp. 97–121.

[12] **Chernyak, E.**, "An Approach to the Problem of Annotation of Research Publications", in Proceedings of the Eighth ACM International Conference on Web Search and Data Mining (2015), pp. 429–434.

🏫 Teaching Experience

Deep Learning for Natural Language Processing	**2016-present**

HSE University, Moscow, Russia
Courses for undergraduate students in CS and computational linguistics

MSc and BSc students supervisor	**2016-present**

HSE University, Moscow, Russia
Selected topics:
  – Adversarial attacks on cross-lingual NLU models
  – Hallucination detection in machine translation models
  – Neural accent detection in Russian
  – Binary question-answering dataset collection

MOOC Deep learning for Natural Language Processing	**2021**

OpenEdu.ru ([link]

👥 Community Service

Reviewer: ACL, EMNLP, EACL, NAACL, RANLP, LREC	since 2020
Workshop organizer: The First Workshop on Efficient Benchmarking in NLP [nlp-power.github.io]	ACL 2022
Shared tasks organizer:	Dialogue, 2020-2022
1. Artificial Text Detection	RuATD
2. Sentence Simplification Evaluation	RSSE
3. Relation Extraction for Business	RuReBUS

🎒 Employment

Research Engineer   **2018-2019**
Sber, Moscow, Russia
Tasks: built models for named entity recognition and topic modelling

Research Intern   **2017-2018**
Philips Lab, Moscow, Russia
Tasks: built models for information extraction from EHR

Research Intern   **2016**
TU Darsmstadt, Germany, Supervisor: Nils Reimers
Tasks: built models for few-shot event extraction

🤝 References

- Dr. Pavel Braslavskii, PBraslavski@hse.ru, *HSE University, Moscow, Russia*
- Dr. Prof. Alexander Panchenko, A.Panchenko@skoltech.ru, *Skoltech, Moscow, Russia*
- Dr. Prof. Preslav Nakov, preslav.nakov@gmail.com, *Qatar Computing Research Institute (QCRI), HBKU*

🐱 Personal Information

🗣 **Languages**: 🇷🇺 Russian (native), 🇬🇧 English (fluent), 🇩🇪 German (fluent), 🇮🇱 Hebrew (basic)

⭐ **Hobbies**: swimming, biking, watching movies, reading, visiting museums