

Egor Cherepanov

RL/Robotics Researcher

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EDUCATION

- **PhD in Computer Science**, *Moscow Independent Research Institute of Artificial Intelligence* 2025 -present
- **PhD in Cognitive Modeling**, *Moscow Institute of Physics and Technology* 2024 - 2024
- **Master of Petroleum Engineering**, *Skolkovo Institute of Science and Technology* 2022 - 2024
- **Bachelor of Physics**, *Lomonosov Moscow State University, Physics Department, Department of Quantum Electronics* 2018 - 2022

PUBLICATIONS & PREPRINTS (9)

KAGE-Bench: Fast Known-Axis Visual Generalization Evaluation for Reinforcement Learning *Under review*
arXiv preprint 2026
Egor Cherepanov, Daniil Zelezetsky, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2601.14232>

MARL-GPT: Foundation Model for Multi-Agent Reinforcement Learning *Under review*
7th International Workshop on Multi-Agent Path Finding (WoMAPF) @ AAAI 2026, Oral 2026
Maria Nesterova, Mikhail Kolosov, Anton Andreychuk, **Egor Cherepanov**, Oleg Bulichev, Alexey Kovalev, Konstantin Yakovlev, Aleksandr Panov, Alexey Skrynnik
<https://openreview.net/forum?id=4U6MH1tihw>

Memory Retention Is Not Enough to Master Memory Tasks in Reinforcement Learning *Poster*
The 25th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS 2026) 2026
Oleg Shchendrin, **Egor Cherepanov**, Alexey Kovalev, Aleksandr Panov
<https://arxiv.org/abs/2601.15086>

ELMUR: External Layer Memory with Update/Rewrite for Long-Horizon RL *Under review*
CoRL 2025 Workshop RemembeRL, Best Poster Award, Spotlight 2025
Egor Cherepanov, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2510.07151>

Memory, Benchmark & Robots: A Benchmark for Solving Complex Tasks with Reinforcement Learning *Spotlight*
publication withdrawn for administrative reasons (**NeurIPS 2025**) 2025
Egor Cherepanov, Nikita Kachaev, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2502.10550>

Recurrent Action Transformer with Memory *Poster*
publication withdrawn for administrative reasons (**NeurIPS 2025**) 2025
Egor Cherepanov*, Alexey Staroverov*, Dmitry Yudin, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2306.09459>

Unraveling the Complexity of Memory in RL Agents: an Approach for Classification and Evaluation *Under review*
CoRL 2025 Workshop RemembeRL 2025
Egor Cherepanov, Nikita Kachaev, Artem Zholus, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2412.06531>

A New Perspective on Transformers in Online Reinforcement Learning for Continuous Control *Under review*
ICLR 2025 Workshop 2025
Nikita Kachaev, Daniil Zelezetsky, **Egor Cherepanov**, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2510.13367>

Re: Frame-Retrieving Experience From Associative Memory *Journal*
Doklady Mathematics (2025) 2025
Daniil Zelezetsky*, **Egor Cherepanov**, Alexey K. Kovalev, Aleksandr I. Panov
<https://arxiv.org/abs/2508.19344>

ACADEMIC SERVICE

Conference reviewer

- International Conference on Learning Representations (**ICLR**) 2026
- Association for the Advancement of Artificial Intelligence (**AAAI**) 2026
- XXII Russian Conference on Artificial Intelligence with international participation (**RCAI**) 2025
- International Scientific and Technical Conference “**Neuroinformatics**” 2024

Workshop reviewer

- RemembeRL Workshop @ **CoRL** 2025
- 7th Robot Learning Workshop @ **ICLR** 2025
- New Frontiers in Associative Memories @ **ICLR** 2025

WORKSHOP PRESENTATIONS

MARL-GPT: Foundation Model for Multi-Agent Reinforcement Learning <i>7th International Workshop on Multi-Agent Path Finding (WoMAPF) @ AAAI 2026</i>	<i>Oral</i> 2026
ELMUR: External Layer Memory with Update/Rewrite for Long-Horizon RL <i>RemembeRL Workshop @ CoRL 2025</i>	<i>Spotlight, Best Poster Award</i> 2025
Memory, Benchmark & Robots: A Benchmark for Solving Complex Tasks with Reinforcement Learning <i>RemembeRL Workshop @ CoRL 2025</i>	<i>Poster</i> 2025
7th Robot Learning Workshop @ ICLR 2025	2025
Unraveling the Complexity of Memory in RL Agents: an Approach for Classification and Evaluation <i>RemembeRL Workshop @ CoRL 2025</i>	<i>Poster</i> 2025
A New Perspective on Transformers in Online Reinforcement Learning for Continuous Control <i>7th Robot Learning Workshop: Towards Robots with Human-Level Abilities @ ICLR 2025</i>	<i>Poster</i> 2025
Re: Frame-Retrieving Experience From Associative Memory <i>New Frontiers in Associative Memories @ ICLR 2025</i>	<i>Poster</i> 2025
Recurrent Action Transformer with Memory <i>Next Generation of Sequence Modeling Architectures Workshop @ ICML 2024</i>	<i>Poster</i> 2024

TEACHING

AI Masters Program, Institute of Artificial Intelligence of Moscow State University <i>Advanced Reinforcement Learning Course</i>	<i>Teaching Assistant</i> 2025, 2026
• Contributed substantially to course materials, including lecture notes and assignments. • Led practical sessions for 80+ students and supported them throughout the course.	

WORK EXPERIENCE

Cognitive AI Systems Lab, Embodied AI Group <i>Research Scientist</i>	01/2025 – present
• Vision-Language-Action models for Embodied AI.	
Artificial Intelligence Research Institute, Laboratory of Neurosymbol Integration <i>Research Scientist</i>	07/2023 – 12/2024
• Memory-augmented RL agents.	
Skolkovo Institute of Science and Technology, Center of Hydrocarbon Recovery <i>Research Engineer</i>	06/2023 – 11/2023
• Well-logging data processing and physical properties prediction.	
Gazpromneft-CR LLC, Department of Mathematical Modeling <i>Intern</i>	05/2023 – 07/2023
• Deep learning architectures for oil production prediction.	