

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) @ AAI 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 Shchendrigin, **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 RememberRL, 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publication withdrawn for administrative reasons (NeurIPS 2025) 2025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publication withdrawn for administrative reasons (NeurIPS 2025) 2025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 RememberRL 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

- RememberRL 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 *Oral*
7th International Workshop on Multi-Agent Path Finding (WoMAPF) @ AAAI 2026 2026

ELMUR: External Layer Memory with Update/Rewrite for Long-Horizon RL *Spotlight, Best Poster Award*
RememberRL Workshop @ CoRL 2025 2025

Memory, Benchmark & Robots: A Benchmark for Solving Complex Tasks with Reinforcement Learning *Poster*
RememberRL Workshop @ CoRL 2025 2025
7th Robot Learning Workshop @ ICLR 2025 2025

Unraveling the Complexity of Memory in RL Agents: an Approach for Classification and Evaluation *Poster*
RememberRL Workshop @ CoRL 2025 2025

A New Perspective on Transformers in Online Reinforcement Learning for Continuous Control *Poster*
7th Robot Learning Workshop: Towards Robots with Human-Level Abilities @ ICLR 2025 2025

Re: Frame-Retrieving Experience From Associative Memory *Poster*
New Frontiers in Associative Memories @ ICLR 2025 2025

Recurrent Action Transformer with Memory *Poster*
Next Generation of Sequence Modeling Architectures Workshop @ ICML 2024 2024

TEACHING

AI Masters Program, Institute of Artificial Intelligence of Moscow State University *Teaching Assistant*
Advanced Reinforcement Learning Course 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 *01/2025 – present*
Research Scientist

- Vision-Language-Action models for Embodied AI.

Artificial Intelligence Research Institute, Laboratory of Neurosymbol Integration *07/2023 – 12/2024*
Research Scientist

- Memory-augmented RL agents.

Skolkovo Institute of Science and Technology, Center of Hydrocarbon Recovery *06/2023 – 11/2023*
Research Engineer

- Well-logging data processing and physical properties prediction.

Gazpromneft-CR LLC, Department of Mathematical Modeling *05/2023 – 07/2023*
Intern

- Deep learning architectures for oil production prediction.