





Artem Zholus

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EDUCATION

- **PhD in AI: MILA, Polytechnique Montréal: [polymtl.ca](#)** Montréal, Canada
PhD with Sarath Chandar, [chandar-lab.github.io](#) Jan. 2023 – Jan. 2027
- **MSc in AI: Moscow Institute of Physics and Technology : [mipt.ru/en](#)** Moscow, Russia
MSc of Artificial Intelligence and Machine Learning Sept. 2020 – Aug. 2022
 - **GPA:** 5.0/5 (top 3% out of 400 students), Degree with honors
 - **Thesis:** Task generalization in reinforcement learning for robotic control with learned world models
- **BSc in CS: ITMO University : [en.itmo.ru](#)** Saint Petersburg, Russia
BSc of Applied Mathematics and Informatics Sep. 2014 – Aug. 2018
 - **GPA:** 4.21/5 (top 10% / 120 students); **Major:** Applied Maths & Computer Science; **Minor:** Software Eng.

RESEARCH EXPERIENCE

- **Meta AI** Montreal, Canada
Visiting Researcher Oct. 2024 – Now
- **Google DeepMind** Montreal, Canada
Student Researcher Apr. 2024 – Sept. 2024
- **EPFL: École Polytechnique Fédérale de Lausanne (EPFL) : [epfl.ch](#)** Lausanne, Switzerland
Master's Enhancement Internship @ VILAB [[vilab.epfl.ch](#)] Sept. 2022 – Sept 2023
 - Project in Multimodal Vision Representation learning.*Summer Research Intern (top 2% out of 1800 applicants) @ LIONS lab* May 2022 – August 2022
 - Project in deep RL for zero-sum games based on the theoretical results from the LIONS lab
- **Insilico Medicine : [insilico.com](#)** Saint Petersburg, Russia
Research Engineer, core AI team @ chemistry42 SaaS drug discovery platform Sep. 2018 - Mar. 2021
 - Developed and deployed two top-performing drug-discovery RL algorithms in production.
 - Worked on the company's bespoke deep learning framework used in research and production.*Research Engineering Intern* July 2017 – Aug. 2018
 - Built molecular sequential generative models for drug discovery projects.

PAPERS (* - DENOTES EQUAL CONTRIBUTION)

- **Artem Zholus**, Maksim Kuznetsov, Roman Schutski, Rim Shayakhmetov, Daniil Polykovskiy, Sarath Chandar, Alex Zhavoronkov. *BindGPT: A Scalable Framework for 3D Molecular Design via Language Modeling and Reinforcement Learning*, preprint 2024 [[arxiv](#)] [[website](#)];
- Mohammad Reza Samsami*, **Artem Zholus***, Janarthanan Rajendran, Sarath Chandar. *Mastering Memory Tasks with World Models (oral, top-1.2%) ICLR 2024* [[website](#)];
- Sonia Joseph*, **Artem Zholus***, Mohammad Reza Samsami*. *Mining the Diamond Miner: Mechanistic Interpretability on the Video PreTraining Agent*, **Attrib workshop at NeurIPS 2023**
- **Artem Zholus**, Alexey Skrynnik, Shrestha Mohanty, Zoya Volovikova, Julia Kiseleva, Artur Szlam, Marc-Alexandre Côté, Aleksandr I. Panov. *IGLU Gridworld: Simple and Fast Environment for Embodied Dialog Agents*. **Embodied AI workshop, CVPR 2022**. [[arxiv](#)]
- Julia Kiseleva*, Alexey Skrynnik*, **Artem Zholus***, Shrestha Mohanty*, Negar Arabzadeh*, Marc-Alexandre Côté*, Mohammad Aliannejadi, Milagro Teruel, Ziming Li, Mikhail Burtsev, Maartje ter Hoeve, Zoya Volovikova, Aleksandr Panov, Yuxuan Sun, Kavya Srinet, Arthur Szlam, Ahmed Awadallah. *IGLU 2022: Interactive Grounded Language Understanding in a Collaborative Environment at NeurIPS 2022*. **NeurIPS Competition, 2022** [[arxiv](#)]