Adam Pardyl

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Education

- **Jagiellonian University** — Kraków, Poland
  PhD candidate in Technical Computer Science — *Oct. 2022 – Jun. 2026*
  - Thesis topic: Partial information in Machine Learning.
  - Thesis advisor: Prof. Bartosz Zieliński.
- **Jagiellonian University** — Kraków, Poland
  Graduated with honors as Master of Computer Science — *Oct. 2020 – Jun. 2022*
  - Specialization: Machine Learning; GPA 4.9.
  - Master thesis title: *"ProtoMIL: Multiple Instance Learning with Prototypical Parts for Fine-Grained Interpretability".*
- **Jagiellonian University** — Kraków, Poland
  Graduated as Bachelor of Computer Science – IT Analyst — *Oct. 2016 – Jun. 2019*
  - Specialization: Theoretical Computer Science; GPA 4.0.
  - As part of Individual Studies in Mathematics and Science (pl: Studia Matematyczno-Przyrodnicze).
- **The August Witkowski 5th High School** — Kraków, Poland
  - Algorithmics and mathematics classes with cooperation of the Jagiellonian University. *Sep. 2013 – May 2016*
  - Finalist of *Polish Olympiad in Informatics (2016).*
  - First place in *Polish Electrical and Electronic Knowledge Olympiad* in ICT category *(2016).*

Publications

- (in review for IJCAI 2023) **Active Visual Exploration Based on Attention-Map Entropy.** Pardyl, A.; Rypeść, G.; Kurzejamski, G.; and Zieliński, B.
- (in review for UAI 2023) **ProPML: Probability Partial Multi-label Learning.** Struski, Ł.; Pardyl, A.; Tabor, J.; and Zieliński, B.
- **Automating Patient-Level Lung Cancer Diagnosis in Different Data Regimes.** Pardyl, A.; Rymarczyk, D.; Tabor, Z.; and Zieliński, B. In International Conference on Neural Information Processing (ICONIP), 2022.
- **ProtoMIL: Multiple Instance Learning with Prototypical Parts for Whole-Slide Image Classification.** Rymarczyk, D.; Pardyl, A.; Kraus, J.; Kaczyńska, A.; Skomorowski, M.; and Zieliński, B. In European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2022.

Work experience

- **IDEAS NCBR** — Warsaw, Poland
  PhD candidate researcher — *Sep. 2022 – present*
  - Team: Zero-waste machine learning in computer vision; lead by prof. Tomasz Trzciński.
  - Researching re-use of already acquired information in computer vision.
  - Technologies: PyTorch, Lightning, Numpy, Tensorflow, Python, Slurm.
- **Google** — Zürich (remote), Switzerland
  Software Engineering Intern — *Jul. 2020 – Oct. 2020*
  - Worked with the YouTube Content ID team on improving content matching system.
  - Performed big data analysis to identify highly repetitive, yet non-distinctive video fragments on YouTube in order to optimise video matching subsystem improving its performance.
  - Technologies: Flume (internal MapReduce-like framework), C++, Python, Borg (Google cloud orchestration).
- **Student Government of the Jagiellonian University** — Kraków, Poland
  Vice-president of the Board — *Sep. 2021 – Jun. 2022*
  President of the Faculty Student Council — *Feb. 2020 – Jul. 2021*
  - Elected student representative to the University's Senate (highest governing body of the University).
  - Leading student continuous efforts to improve the quality of education, respect of students' rights and equity.
  - Polish name of the organization: *Samorząd Studentów Uniwersytetu Jagiellońskiego.*

- **Google** Zürich, Switzerland
  Software Engineering Intern *Jul. 2019 – Sep. 2019*
  - Joined the Android Frameworks team working on the Android Operating System.
  - Created a series of features for the Android Window Manager project, including a new high performance on-device logging solution and improvements to debugging tools for window transition issues.
  - Technologies: Android OS, AOSP, Java, Kotlin, git, Gerrit.
- **Computer Science Students' Association at the Jagiellonian University** Kraków, Poland
  Member of the Board; Software Developer & Network Administrator *Oct. 2017 – Present*
  - Managing the work of the most successful student organization at the Faculty of Mathematics and Computer Science of the Jagiellonian University.
  - Overseeing and taking part in multiple software projects organized by the association.
  - Technologies: Java, Kotlin, Spring, C++, Python, Django, PostgreSQL, Linux, LXC, Docker.
- **Google** London, UK
  Software Engineering STEP Intern *Jul. 2017 – Sep. 2017*
  - Worked with the Android for Corp team (part of Android Enterprise).
  - Implemented a new security feature for the G Suite Mobile Management platform.
  - Technologies: Android, MDM, Java, Protocol buffers, end-to-end testing, Google's software development environment.
- **TechSwarm 2015** Kraków, Poland
  Team Leader; Software Developer *Aug. 2014 – Jul. 2015*
  - Participated in *2015 European CanSat Competition* organized by the *European Space Agency*.
  - Worked on a miniature space probe model capable of measuring various parameters of planet's surface and transmitting them to a receiving station.
  - Second prize in the European final.
  - Technologies: Python, Flask, MySQL, JavaScript.

Grants

- **FNP Team-Net**: Bio-inspired artificial neural networks; co-investigator.
- **NCBR Fast Track**: (in polish) X-rAI: Przeglądarka diagnostyczna dla radiologii z komputerowym wspomaganiem wykorzystującym Sztuczną Inteligencję; co-investigator.

Research interests

- **Computer vision**
- **Partial information in machine learning**
- **eXplainable Artificial Intelligence**

Languages

- **Polish**: Native
- **English**: Advanced