

# Bartłomiej Cupiał

Student, Machine Learning Engineer, interested in reinforcement learning.

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## EDUCATION

### Jagiellonian University

Msc in Computer Science, Machine Learning

2021.10 - Present

### Wrocław University of Science and Technology

BSc in Computer Science

2016.10 - 2020.02

## WORK EXPERIENCE

### Machine Learning Engineer

LifeFlow

- Responsible for design and implementation of machine learning based solutions for cardiac diagnostics problems.
- Developed computer vision algorithms applied to medical data.
- Working with voxels and meshes.
- Using Python, PyTorch, ONNX, Docker, AzureML
- Developing non-invasive cardiac diagnostics system. Created machine learning-based solutions for segmentation of coronary arteries and myocardium. Solving computer vision tasks related to 3D medical data in voxels and meshes. Researching application of reinforcement learning algorithms to the medical domain

2019.11 - Present

### C++ developer in starter program

Asseco

2019.07 - 2019.10

## PROJECTS

#### Generate films with GANs (2022.04 - Present)

- I work on the project under the BioNN grant, with GMUM.
- We work on data collected from the inside of the intestines and use ProGAN
- Using PyTorch

#### Transformers in Continual Reinforcement Learning (2021.10 - Present)

- I am working on the project in collaboration with the IMPAN group and members of the Jagiellonian University, GMUM
- Development of the work from the publication [Continual World](#)
- Using PyTorch, Tensorflow, MuJoCo environment

#### Generate chemical compounds which are compatible with the given pharmacophore (2021.10 - 2022.01)

- Work uses Graph Neural Networks, and modifies JTVAE.
- Used PyTorch, PyTorch Geometric

#### My own implementation mix match algorithm (2019.06)

- Used PyTorch and fastai

## SKILLS

Python



Git



Linux



Docker



## ORGANIZATIONS

Solvro Students' Association (2018 – Present)

## LANGUAGES

Polish

*Native*

English

*B2/C1*

## ADDITIONAL EXPERIENCE

Stanford reinforcement learning course

Conducting workshops for new people interested in machine learning in Solvro Students' Association

MLinPL students speaker (2019 Conference)  
Talk about MixMatch

Fastai course by n-weaves

Participation in few kaggle contests

Hopelt Hackaton

## INTERESTS

Reinforcement Learning

Chess

Basketball