

# Marek Wydmuch

## *Curriculum Vitae*

<i>Phone</i>	(+48) 784 110 482
<i>E-mail</i>	mwydmuch@cs.put.poznan.pl
<i>Homepage</i>	mwydmuch.pl
<i>GitHub</i>	mwydmuch
<i>LinkedIn</i>	marekwydmuch

### **About**

Ph.D. student at the Laboratory of Intelligent Decision Support Systems in the Institute of Computing Science, Poznan University of Technology (PUT), Poland. Research interests include various topics in Machine Learning with the main focus on eXtreme Multi-Label Classification (XMLC).

### **Personal Information**

<i>Date and place of birth</i>	April 13, 1993, Poznan, Poland
<i>Citizenship</i>	Polish
<i>Sex</i>	Male

### **Education**

<i>2017 - present</i>	<b>Ph.D. student, Computer Science</b> , Poznan University of Technology. Supervisor: Krzysztof Dembczyński. Expected graduation date: Dec. 2022.
<i>2016 - 2017</i>	<b>M.Sc., Computer Science</b> , Poznan University of Technology. Specialization: Intelligent Decision Support Systems. Thesis: <i>Online probabilistic label trees for extreme multi-label classification</i> . Degree with distinction.
<i>2012 - 2016</i>	<b>B.Sc., Computer Science</b> , Poznan University of Technology. Thesis: <i>VIZIA: 3D Video Game-base Environment for Research on Learning Agents from Raw Visual Information</i> .

### **Employment and Experience**

<i>Oct. 2017 - Dec. 2020</i>	<b>Data Scientist, OLX Group</b> , Search Team. Part-time, worked on learning to rank, ads tagging using extreme classification, category suggestion and spellchecking for OLX Poland, Portugal, Ukraine, Romania, and Bulgaria.
<i>Jul. 2017 - Sept. 2017</i>	<b>Data Science Intern, OLX Group</b> , Search Team. Worked on automatic category tree building, quality assessment for category trees and discovering of new categories in classifieds services.
<i>Jul. 2015 - Sept. 2015</i>	<b>3D Tools Programming Intern, ProGrupa Sp. z o.o.</b> Developed an online 3D model viewer and a converter for commercial 3D vector file formats to Wavefront .obj file format for <a href="http://archiup.com">archiup.com</a> .
<i>2012 - 2016</i>	<b>Freelance Front-End Web Developer</b>

## Skills

<i>Languages</i>	English (advanced/proficient), Polish (native)
<i>Operating systems</i>	Linux, macOS, Windows
<i>Programming experience</i>	machine learning, deep learning, natural language processing, basic reinforcement learning, standard algorithms, big data processing, visualization and 3D graphics, front-end web development
<i>Programming languages</i>	<b>Experienced: C++, C, Python, Bash, JavaScript, SQL</b> Basic: Lua, PHP, Java.
<i>Technologies</i>	<b>Experienced: PyTorch, PyTroch Lightning, Skorch, HuggingFace Transformers, Scikit-learn, Pandas, Spark, Git, Docker, L<sup>A</sup>T<sub>E</sub>X</b> Basic: AWS, Hive, Presto, Hadoop.

## Scientific Activities

<i>Software maintainer</i>	<b>ViZDoom – Doom-based AI Research Platform for Reinforcement Learning from Raw Visual Information.</b> Project homepage: <a href="http://vizdoom.cs.put.edu.pl">vizdoom.cs.put.edu.pl</a>
<i>Organizer</i>	<b>Visual Doom AI Competition 2016, 2017 and 2018 at IEEE Conference on Computational Intelligence and Games.</b> Main Organizer Website: <a href="http://vizdoom.cs.put.edu.pl">vizdoom.cs.put.edu.pl</a> <b>ML in PL Assosiation</b> Board member from 2021 Website: <a href="http://mlinpl.org">mlinpl.org</a> <b>ML in PL Conference 2019, 2020 and 2021</b> Call for Contributions (Talks and Posters) Coordinator Website: <a href="http://conferencemlinpl.org">conferencemlinpl.org</a> <b>From Multiple Criteria Decision Aid to Preference Learning (DA2PL) 2018 Conference.</b> Member of the Organization Committee Website: <a href="http://da2pl.cs.put.poznan.pl">da2pl.cs.put.poznan.pl</a> <b>Polish Agreement on Development of Artificial Intelligence (PP-RAI) Member of the Organization Committee</b> Website: <a href="http://pp-rai.cs.put.poznan.pl">pp-rai.cs.put.poznan.pl</a>
<i>Teaching assistant</i>	<b>Advanced Methods of Computational Intelligence, PUT.</b> Responsible for classes during the summer semester 2021. <b>Methods of Artificial and Computational Intelligence, PUT.</b> Responsible for classes during the summer semester 2021. <b>Big Data Processing, PUT.</b> Responsible for classes during the winter semester 2019/2020. <b>Processing of Massive Datasets, PUT.</b> Responsible for classes during the winter semester 2018/2019. <b>Mining of Massive Datasets, PUT.</b> Responsible for classes during the winter semester 2018/2019 and preparation of OLX Data Ninja 2018 Competitions for students. <b>Information Theory and Lossless Compression Methods, PUT.</b> Responsible for classes during the summer semester 2018.

### *Reviewer*

Served as reviewer for ICML 2020 and 2021, NeurIPS 2020 and 2021 (Outstanding Reviewer Award), AISTATS 2021, IJCAI 2020 and 2021, Machine Learning Journal, and IEEE Transactions on Pattern Analysis and Machine Intelligence.

## **Publications**

### **Awards**

*Sept. 2021*

The 2022 IEEE Transaction on Games Outstanding Paper Award.

*Mar. 2017*

1st place in the machine learning “The Let’s Roq Challenge” competition.

*Mar. 2017*

2nd place in the machine learning OLX Data Ninja 2017 competition.

*Sept. 2016*

The Best Paper Award at IEEE Conference on Computational Intelligence and Games, 2016.

### **Interests**

*Hobbies*

board games, escape rooms, graphic design, movies

*Sports*

cycling, bouldering, hiking

Poznan, February 20, 2022