Maciej ZAMORSKI, Ph.D.

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WEB https://www.zamorski.me
SCHOLAR https://scholar.google.com/citations?user=h_vyxT0AAAAJ

Goal-oriented machine learning researcher and engineer with 6 years of commercial experience in transforming AI-powered R&D projects from idea to implementation stage. Author and co-author of 10 scientific publications accepted into renowned journals and conferences. Research interests include 3D computer vision, generative modeling, and medical imaging.

WORK EXPERIENCE

OCT 2021 - PRESENT
DEC 2023 - PRESENT

HEMOLENS DIAGNOSTICS (PREV. LIFEFLOW)
Acting AI Team Manager
Senior Machine Learning Engineer

Led 4 R&D projects in the areas of medical image segmentation and fluid simulation, coordinated datasets preparation, collected feedback from medical experts, and participated in patent filling process, as well as supervised mid and junior-level engineers. In addition to the aforementioned duties, as an acting manager, I am responsible for **setting short and long-term goals** and **defining projects** for the team based on C-level management vision, **exploring potential innovation areas** and coordinating work with external teams.

FEB 2019 - SEP 2022

WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY
Teaching Assistant

Prepared and taught bachelor-level courses on topics such as machine learning and approximating differential equations. Helped with **thesis supervision** of bachelor and master-level students.

AUG 2018 - APR 2021

TOOPLOOX
Machine Learning Researcher

Co-led and was involved in research projects that resulted in 3 major scientific publications, including **acceptance to ICML 2020**.

Led and co-led several commercial projects that included discovering client needs, performing feasibility studies, defining project scope for PoC and MVP milestones, and conducting R&D work in areas of deep learning and computer vision.

FEB 2017 - JUN 2018

ALPHAMOON
Machine Learning Engineer

Involved in **journal-published research project** in bioinformatics & machine learning areas.

In commercial projects worked on implementation, testing, and documentation as well as providing reports to clients.

JUL 2016 - JAN 2017

NOKIA
Python Engineer

Worked in Test Automation team. Created tools to automate the job of manual testers, wrote & refactored Python libraries, management the SVN code repository.

EDUCATION

OCT 2018 - JUN 2022

Doctorate studies in MACHINE LEARNING & 3D COMPUTER VISION
Cum laude
Wrocław University of Science and Technology

OCT 2013 - JUN 2018

Engineer & Master studies in COMPUTER SCIENCE
specialization in Artificial Intelligence.
Wrocław University of Science and Technology

PUBLICATIONS

Zamorski, M., Stypułkowski, M., Karanowski, K., , Trzciński, T., Zięba, M. (2022). Continual learning on 3D point clouds with random compressed rehearsal. *Computer Vision and Image Understanding (CVIU)*.

Stypułkowski, M., Kania, K., **Zamorski, M.**, Zięba, M., Trzciński, T., Chorowski, J. (2021). Conditional Invertible Flow for Point Cloud Generation. *Pattern Recognition Letters*.

Spurek, P., Winczowski, S., Tabor, J., **Zamorski, M.**, Zięba, M., Trzciński, T. (2020). Hypernetwork approach to generating point clouds. *International Conference on Machine Learning (ICML)*.

Zamorski, M., Zięba, M., Świątek, J. (2020). Generative Modeling in Application to Point Cloud Completion. *International Conference on Artificial Intelligence and Soft Computing (ICAISC)*.

Zamorski, M., Zięba, M., Świątek, J. (2020). Comparison of Aggregation Functions for 3D Point Clouds Classification. *Intelligent Information and Database Systems (IIDS)*.

Zamorski, M.*, Zięba, M.*, Klukowski, P., Nowak, R., Kurach, K., Stokowiec, W., Trzciński, T. (2020). Adversarial Autoencoders for Compact Representations of 3D Point Clouds. *Computer Vision and Image Understanding (CVIU)*.

Stypułkowski, M., **Zamorski, M.**, Zięba, M., Chorowski, J. (2019). Conditional Invertible Flow for Point Cloud Generation. *NeurIPS 2019 Workshop on Sets and Partitions*.

Zamorski, M., Zdobylak, A., Zięba, M., Świątek, J. (2019). Generative Adversarial Networks: recent developments. *International Conference on Artificial Intelligence and Soft Computing (ICAISC)*.

Zamorski, M., Zięba, M. (2019). Semi-supervised learning with Bidirectional GANs. *Intelligent Information and Database Systems (IIDS)*.

Klukowski, P.*, Augoff, M.*, **Zamorski, M.**, Gonczarek, A., Walczak, M. J. (2018). Application of Dirichlet process mixture model to the identification of spin systems in protein NMR spectra. *Journal of biomolecular NMR*

SELECTED ACTIVITY

NOV 2022 — ML IN PL CONFERENCE

Presented poster "Continual learning on 3D point clouds with random compressed rehearsal".

NOV 2019 — ML IN PL CONFERENCE (*PREV. PL IN ML*)

Gave the **oral presentation** "Adversarial Autoencoders for Compact Representations of 3D Point Clouds" **Co-conducted a full-day workshop** "Flow-Based Generative models" for 30 attendees as a part of one of the biggest Polish machine learning conferences.

DEC 2018 — PL IN ML: POLISH VIEW ON MACHINE LEARNING

Co-conducted a full-day workshop "Practical Aspects of Generative Models" for about 30 attendees as a part of one of the biggest Polish machine learning conferences.

2014, 2015, 2016 — TEDX WROCŁAW

Volunteer for TEDx Wrocław main events. Worked in an international group. Responsible for cooperating with the audio engineer and continuous service of a conference rooms sound systems.

MAR 2014 - JUL 2015 — AIESEC WROCŁAW UNIVERSITY OF TECHNOLOGY

Leader of the team organizing work & travel in Lower Silesia region for foreign student volunteers.

SKILLS

Programming:	PYTHON – PYTORCH, TENSORFLOW, KERAS, SCIKIT-LEARN, NUMPY, PANDAS
Toolkit:	LINUX, PYCHARM, JUPYTER, LATEX, BASH, GIT, SQL
Cloud:	GOOGLE CLOUD PLATFORM, MICROSOFT AZURE, AMAZON WEB SERVICES
Languages:	POLISH (Native), ENGLISH (C1, 8.0 points IELTS Certificate)

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process.