# Monika Wysoczańska

PhD Student · Computer Vision · Deep Learning · Multimodal Learning

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Education \_\_\_

#### **Warsaw University of Technology**

Warsaw

PHD COMPUTER SCIENCE

Oct. 2020 - Oct. 2024

- Advisor: Dr Tomasz Trzciński, associate professor at WUT
- Research topic: Multimodal representation learning in Machine Learning and Computer Vision

#### **Warsaw University of Technology**

Warsaw

MSc Computer Science

Feb. 2017 - Oct. 2019

- · Advisor: Dr Tomasz Trzciński
- Thesis title: Multimodal dance classifiation
- Erasmus Exchange Program: Universidad Politecnica de Madrid (Sep. 2018 Jan. 2019)

#### **Wroclaw University of Sciece and Technology**

Wroclaw

**BSc Systems Engineering** 

Oct. 2013 - Jan. 2017

- Advisor: Dr Paweł Świątek
- Graduated with Honors (grade: 5.5/5.5)

## Professional Experience

Booking.com Amsterdam, NL

PHD RESEARCH INTERN

Robotec.ai

Jul. 2022- Oct. 2022

· Working on image collection summarization with textual guidance

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Warsaw, PL

#### MACHINE LEARNING ENGINEER/RESEARCHER

Sep. 2020 - Jun. 2021

• Anomaly detection methods for EdgeAI and 3D object detection in lidar scans

#### **Sport Algorithmics and Gaming**

Warsaw, PL

COMPUTER VISION ENGINEER/RESEARCHER

Mar. 2019 - Aug. 2020

• Developing a vision-based system for football analysis, topics included: jersey number recognition and team segmentation

#### Samsung R&D Institute Poland

Warsaw, PL

JUNIOR DATA SCIENTIST

Feb. 2018 - Aug. 2018

• Working on face recognition, object detection with deep learning methods

### **Samsung R&D Institute Poland**

Warsaw, PL

INTERN

Jun. 2017 - Jan. 2018

• Working on Human In-door positioning and tracking and Automatic configuration of floor plans for Indoor Positioning System

## Research Visits\_

#### Imagine group - Ecole des Ponts, ParisTech

Champs sur Marne, FR

HOST ADVISOR: DR DAVID PICARD

Sep. 2021 - Dec. 2021; Mar. 2022 -Jun. 2022; Nov. 2022 - Jan. 2023

• Reaserch topic: Image representations for Visual Reasoning

Selected	Publications	
Towards Uns nier Tom 2022.	supervised Visual Reasoning: Do off-the-shelf features know how to reason?, Wysocz n, Trzcinski Tomasz, Picard David. 2022. Workshop on Self-Supervised Learning: Theory a	<b>anska Monika</b> , Mon- nd Practice, NeurIPS
	centric Neural Network for Point Cloud Based 6DoF Relocalization at the City Scale, anska Monika, Trzcinski Tomasz. 2021 IEEE Robotics and Automation Letters.	, Komorowski Jacek,
	<b>Lidar and Monocular Image Fusion for Place Recognition</b> , Komorowski Jacek, <b>Wysocza</b> asz. 2021 International Joint Conference on Neural Networks (IJCNN).	nska Monika, Trzcin-
Multimodal	Dance Recognition, Wysoczanska Monika, Trzcinski Tomasz. 2020. VISIGRAPP (5: VISAP	PP).
Teaching	Experience	
Spring 2021, 2022	Computer Vision, Warsaw University of Technology, Teaching Assistant	
Research	Grants	
BGF SSHN 20	022 - Campus France, French Government	France Nov. 2022 - Dec. 2022
• Scholarship	p and living allowance in France for 2-month research visit at Ecole des Ponts, ParisTech	NOV. 2022 - Dec. 2022
OPUS 2022: Center, Pola	<i>Dynamic Neural Networks for Efficient Machine Learning</i> - National Science nd	Poland
• Co-authors	ship of the grant proposal for a total amount of 1.3M PLN. Principal investigator: Tomasz Trzc	<i>Jan. 2023 - Jan. 2026</i> inski
Awards_		
2020	National Competition for the best Master Thesis in Machine Learning and Data Science distinction in Applications track, Warsaw University of Technology	c <b>e,</b> Poland
Outreach	& Professional Development	
2021	IT for SHE, Volunteer teacher - Introduction to programming at elementary school	Poland
Skills		
• Program	ming languages: Python, Matlab, C++	

- Tools: PyTorch, OpenCV, Docker, Slurm, Pandas, Numpy, Git
   Languages: Polish (mother tongue), English (fluent), Spanish (basic), French (basic)