# Monika Wysoczańska

PHD STUDENT · COMPUTER VISION · DEEP LEARNING · MULTIMODAL LEARNING · AVAILABLE FROM MAY 2024

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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

Jul. 2022- Oct. 2022

PHD RESEARCH INTERN

• Working on image collection summarization with textual guidance

Robotec.ai 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 \_\_\_\_

**Valeo.ai** Paris, FR

HOST ADVISOR: DR ORIANE SIMEONI

Aug. 2023 - Dec. 2023

• Reaserch topic: Open-Vocabulary Semantic Segmentation

## 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 I	Publications	
	er: Teaching CLIP a few DINO tricks, Wysoczanska Monika, Oriane Simeoni, Michael Ram i, Andrei Bursuc, Patrick Perez. arxiv 2023	namonjisoa, Tomasz
	P Dense Inference Yields Open-Vocabulary Semantic Segmentation For-free, Wysocza onjisoa, Tomasz Trzcinski, Oriane Simeoni. WACV 2024	<b>nska Monika</b> , Michael
rization	Is Good About This Property: Leveraging Reviews For Segment-Personalized Image ( , Wysoczanska Monika, Beladev Moran, Lastmann Assaraf Karen, Wang Fengjun, Kleinfel Boker Hadas. 2023. IAAI-24 (AAAI 2024)	
	upervised Visual Reasoning: Do off-the-shelf features know how to reason?, Wysocza , Trzcinski Tomasz, Picard David. 2022. Workshop on Self-Supervised Learning: Theory an	
	entric Neural Network for Point Cloud Based 6DoF Relocalization at the City Scale, anska Monika, Trzcinski Tomasz. 2021 IEEE Robotics and Automation Letters.	Komorowski Jacek,
Multimodal I	Dance Recognition, Wysoczanska Monika, Trzcinski Tomasz. 2020. VISIGRAPP (5: VISAPP	?).
Skills		
<ul><li>Tools: Py</li><li>Language</li></ul>	ming languages: Python (advanced), Matlab (basic), C++ (basic) Torch, OpenCV, Docker, Slurm, Pandas, Numpy, Git es: Polish (mother tongue), English (fluent), French (intermediate), Spanish (basi Grants	c)
BGF SSHN 20	22 - Campus France, French Government	France
<ul> <li>Scholarship</li> </ul>	and living allowance in France for 2-month research visit at Ecole des Ponts, ParisTech	Nov. 2022 - Dec. 2022
OPUS 2022: <i>I</i> Center, Polar	Dynamic Neural Networks for Efficient Machine Learning - National Science nd	Poland
• Co-authors	hip of the grant proposal for a total amount of 1.3M PLN. Principal investigator: Tomasz Trzci	<i>Jan. 2023 - Jan. 2026</i> nski
Awards &	Certificates	
2023	Computational Neuroscience, course certification, Neuromatch Academy	International
2020	National Competition for the best Master Thesis in Machine Learning and Data Science award in Applications track, Warsaw University of Technology	Poland
Outreach		
2023 2021	Women In Computer Vision @ ICCV2023, Organizing Comittee IT for SHE, Volunteer teacher - Introduction to programming at elementary school	Paris, France Poland
Teaching	Experience	
Spring 2021, 2022, 2023	Computer Vision, Warsaw University of Technology, Teaching Assistant	