

Piotr MIŁOŚ

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WORK EXPERIENCE

- | | |
|--|---------------------|
| VISITING PROFESSOR
University of Oxford, UK | OCT 2021 - PRESENT |
| <ul style="list-style-type: none">• Visiting professor in the WhiRL research group. | |
| SENIOR DATA SCIENTIST
deepsense.ai, Warsaw, Poland | JUN 2016 - JUN 2020 |
| <ul style="list-style-type: none">• Conduct research in machine learning. Coordinate R&D activities (including collaboration with Volkswagen in autonomous driving). | |
| ASSOCIATE PROFESSOR
Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland | OCT 2018 - PRESENT |
| <ul style="list-style-type: none">• Conduct research in machine learning, coordinate multiple research projects.• Manage research group in the area, supervise Ph.D. students, acquire funding.• Coordinate external communication and seminars in reinforcement learning. | |
| SENIOR DATA SCIENTIST
deepsense.ai, Warsaw, Poland | JUN 2016 - JUN 2020 |
| <ul style="list-style-type: none">• Conduct research in machine learning. Coordinate R&D activities (including collaboration with Volkswagen in autonomous driving). | |
| EXPERT DATA SCIENTIST
Allegro.pl, Warsaw, Poland | JUN 2021 - PRESENT |
| <ul style="list-style-type: none">• Mentoring research in machine learning and off-line data extraction. | |
| ASSISTANT PROFESSOR
Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Poland | OCT 2009 - SEP 2018 |
| <ul style="list-style-type: none">• Conduct research in probability theory and machine learning.• Supervise Ph.D., master and bachelor students, acquire funding.• Multiple teaching assignments including advanced courses in probability theory. | |
| POST-DOC
University of Bath, United Kingdom | MAR 2012 - FEB 2013 |
| <ul style="list-style-type: none">• Conduct research in probability theory. | |
| POST-DOC
University of Geneva, Switzerland | MAR 2011 - FEB 2012 |
| <ul style="list-style-type: none">• Conduct research in probability theory. | |

EDUCATION

PH.D. IN MATHEMATICS, Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland	OCT 2008
MA IN COMPUTER SCIENCE, University of Warsaw, Poland	JUN 2005
MA IN MATHEMATICS, University of Warsaw, Poland	JUN 2004

TEACHING EXPERIENCE AND COMMUNITY SERVICE

SUPERVISION OF STUDENTS

- Supervising Ph.D. students (currently 4).
- Supervising multiple MA, and bachelor students.

TEACHING EXPERIENCE

- Reinforcement learning course (the first course on this subject in Poland), [link](#).
- Multiple courses in mathematics, calculus, probability theory and advanced courses in statistical mechanics.

COMMUNITY SERVICE

- Member of the scientific board of the ML in PL conference, [link](#).
- Organizer of Reinforcement Learning Seminar, [link](#).
- Organizer of Warsaw Summer School in Probability, [link](#).

HONORS AND AWARDS

RECTOR'S AWARD	JUN 2018
• University of Warsaw rector's award for excellence in research.	
PAN AWARD	JUN 2008
• Polish Academy of Sciences Award for outstanding Ph.D. dissertation.	

SELECTED GRANTS

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| NATIONAL SCIENCE CENTER, POLAND | JUN 2020-JUN 2023 |
| <ul style="list-style-type: none">• Grant title: “Reinforcement learning - revisited”.• Role: principal investigator (the grant is expected to fund a Ph.D. position).• approx. \$140,000. | |
| NATIONAL SCIENCE CENTER, POLAND | JUN 2018-JUN 2021 |
| <ul style="list-style-type: none">• Grant title: “Reinforcement learning - Contemporary Challenges”.• Role: principal investigator (the grant has led to establishing a machine learning research group in the Polish Academy of Sciences).• approx. \$500,000. | |
| NATIONAL SCIENCE CENTER, POLAND | SEP 2015-SEP 2018 |
| <ul style="list-style-type: none">• Grant title: “Analysis of stochastic geometric models”.• Role: principal investigator.• approx. \$100,000. | |
| FOUNDATION FOR POLISH SCIENCE | JUN 2013-MAY 2015 |
| <ul style="list-style-type: none">• Homing Plus award for young researches.• approx. \$30,000. | |
| PEOPLE PROGRAMME, EUROPEAN COMMISSION | MAR 2012-FEB 2013 |
| <ul style="list-style-type: none">• Intra-European Fellowship (funding of a post-doc position).• Role: principal investigator.• approx. €97,000. | |
| SCIEX SCIENTIFIC EXCHANGE PROGRAMME | MAR 2011-FEB 2012 |
| <ul style="list-style-type: none">• Postdoc Fellowship.• Role: principal investigator.• approx. 60,000 CHF. | |

SELECTED PUBLICATIONS

- Continual World: A Robotic Benchmark For Continual Reinforcement Learning (with Maciej Wołczyk, Michał Zajac, Razvan Pascanu, Łukasz Kuciński); NeurIPS 2021
- Subgoal Search For Complex Reasoning Tasks (Konrad Czechowski, Tomasz Odrzygóźdź, Marek Zbysiński, Michał Zawalski, Krzysztof Olejnik, Yuhuai Wu, Łukasz Kuciński); NeurIPS 2021
- Model Based Reinforcement Learning for Atari (with Ł. Kaiser, M. Babaeizadeh, B. Osiński, R. H. Campbell, K. Czechowski, D. Erhan, Ch. Finn, P. Kozakowski, S. Levine, R. Sepassi, G. Tucker, H. Michalewski); ICLR 2020, spotlight
- Simulation-based reinforcement learning for real-world autonomous driving (with B. Osiński, A. Jakubowski, P. Zięcina, Ch. Galias, S. Homoceanu, H. Michalewski); ICRA 2020
- Hierarchical Reinforcement Learning with Parameters (with M. Klimek and H. Michalewski); Conference on Robot Learning 2017

TECHNICAL SKILLS

PYTHON, TENSORFLOW Proficient; PANDAS, JAVA, MATHEMATICA Good knowledge; C++, MATLAB, R, WEB PROGRAMMING Notions;

LANGUAGES

POLISH, Mother tongue; ENGLISH both verbal and formal writing, Fluent; FRENCH, Intermediate.