

Education

DPHil in Information Engineering

Advisors: Ingmar Posner, Yee Whye Teh
Google Deepmind Scholarship

University of Oxford

10.2016 - 10.2019 (expected)

M.Sc. in Computational Science & Engineering

Advisor: Patrick van der Smagt
Thesis: *"Representation Learning for Arm Movement Data"*
GPA: 1.2 (1.0 is the highest possible)

Technical University of Munich

10.2014 - 09.2016

B.Sc. in Robotics

Advisor: Barbara Siemiątkowska
Thesis: *"3D Point Cloud Classification with the Bag of Words method"*
Summa Cum Laude GPA: 4.75/5.0

Warsaw University of Technology

10.2010 - 02.2014

Experience

Research Intern

Research on Generative Models advised by Danilo J. Rezende

Google Deepmind, London

06.2018 - 10.2018

Research Assistant

Projects in High Performance Computing with Nils Zander & Tino Bog
and Semantic SLAM for Oculus RIFT advised by Federico Tombari

Technical University of Munich

11.2014 - 09.2016

Software Engineering Intern

Implementation of a framework for anomaly detection in financial data

Bloomberg, London

07.2015 - 10.2015

Research Engineer

Research on bag of words & deep learning for image classification

Samsung Electronics, Warsaw

06.2013 - 07.2014

Junior Software Engineer

Web service development in Java EE

IBM, Warsaw

01.2013 - 06.2013

Photographer

Documenting day-to-day events for a local newspaper

Edytor sp. z.o.o., Olsztyn

05.2010 - 09.2010

Honors and Awards

Google DeepMind PhD Scholarship

2016 - 2019

DAAD Scholarship for Master Studies in Germany

2014 - 2016

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| University President Scholarship for Academic Achievements | 2010 - 2013 |
| Highest GPA from all 1st, 2nd and 3rd year undergraduate students | 2010 - 2013 |

Pre-Prints / Under Review

Juho Lee, Yoonho Lee, Jungtaek Kim, **Adam R. Kosiorek**, Seungjin Choi, Yee Whye Teh "Set Transformer", *Under review at ICLR 2019*.

Tuan Anh Le, **Adam R. Kosiorek**, N Siddharth, Yee Whye Teh and Frank Wood, "Revisiting Reweighted Wake-Sleep", *Under review at ICLR 2019*.

Fabian B. Fuchs, Oliver Groth, **Adam R. Kosiorek**, Alex Bewley, Markus Wulfmeier, Andrea Vedaldi and Ingmar Posner, "Neural Stethoscopes: Unifying Analytic, Auxiliary and Adversarial Network Probing", *arXiv:1806.05502* 2018.

Peer-Reviewed Conference Papers

- [3] **Adam R. Kosiorek**, Hyunjik Kim, Ingmar Posner, and Yee Whye Teh. "Sequential Attend, Infer, Repeat: Generative Modelling of Moving Objects". In: *Advances in Neural Information Processing Systems*. 2018.
- [2] Tom Rainforth, **Adam R. Kosiorek**, Tuan Anh Le, Chris J. Maddison, Maximilian Igl, Frank Wood, and Yee Whye Teh. "Tighter Variational Bounds are Not Necessarily Better". In: *International Conference on Machine Learning*. 2018.
- [1] **Adam R. Kosiorek**, Alex Bewley, and Ingmar Posner. "Hierarchical Attentive Recurrent Tracking". In: *Advances in Neural Information Processing Systems*. 2017.

Peer-Reviewed Workshop Papers

Neil Dhir, **Adam R. Kosiorek** and Ingmar Posner, "Bayesian Delay Embeddings for Dynamical Systems". *NIPS Timeseries Workshop*, 2017.

Invited Talks

Attention Mechanisms: Knowing Where to Look Improves Visual Reasoning
ReWork Deep Learning Summit, London, September 2018.

Introduction to Variational Autoencoders
OxWASP lecture on machine learning, Oxford, March 2018.

Introduction to Neural Networks
Machine Learning Meetup @ Stylight, Munich, February 2015.

Research Mentoring

Current: Fabian Fuchs (Ph.D.)

Paper Reviewing

Advances in Neural Information Processing Systems (NIPS) 2018
International Conference on Representation Learning (ICLR) 2018
IEEE Transactions on Image Processing (TIP) 2018
Conference on Robot Learning (CoRL) 2017

Side Projects

Research Blog

Explanations of new and old ideas in Machine Learning

akosiorek.github.io

2017 - present

CMake Build System for BVLC/Caffe

2014