

Jakub M. Tomczak

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Google Scholar	https://scholar.google.com/citations?user=XB99pR4AAAAJ		

WORK EXPERIENCE

Nov 2019 - Present	Vrije Univiersiteit Amsterdam , the Netherlands <i>Assistant Professor of Artificial Intelligence</i> Research: deep generative modeling, deep learning, derivative-free optimization
Oct 2018 - Dec 2019	Qualcomm AI Research , Amsterdam, the Netherlands (industry) <i>Deep Learning Researcher (Staff Engineer)</i> Research: video compression, Bayesian optimization, deep learning
Oct 2016 - Sept 2018	Universiteit van Amsterdam , the Netherlands <i>Postdoc/Marie Sklodowska-Curie Individual Fellow, supervision: Prof. Max Welling</i> Research: deep generative modeling, medical imaging
Oct 2014 - Sept 2016	Wroclaw University of Technology , Poland <i>Assistant Professor</i> Research: deep generative modeling, deep learning, machine learning
Oct 2012 - Sept 2014	Wroclaw University of Technology , Poland <i>Postdoc, supervision: Prof. Jerzy Swiątek</i> Research: machine learning
Jun 2009 - Sept 2012	Wroclaw University of Technology , Poland <i>Research assistant, supervision: Prof. Adam Grzech</i>

EDUCATION

Oct 2009- Mar 2013	Ph.D. in computer science (<i>with honors</i>) , specialization: machine learning Wroclaw University of Technology, Poland <i>Title:</i> Incremental Knowledge Extraction from Data for Non-Stationary Objects <i>Supervisor:</i> Prof. Jerzy Swiątek
Aug 2008- Dec 2009	M.Sc. in computer science Blekinge Institute of Technology, Sweden <i>Supervisor:</i> Prof. Ludwik Kuzniarz
Oct 2004- Jul 2009	M.Sc. in computer science Wroclaw University of Technology, Poland <i>Track:</i> Pre-PhD <i>Supervisor:</i> Prof. Jerzy Swiątek

GRANTS

2016-2018	Principal Investigator , Marie Skłodowska-Curie Individual Fellowship (EU), 177 599 €
2016	Researcher , NCR&D (Poland), 7 909 741 PLN
2013-2015	Researcher , NCR&D (Poland, EU), 10 672 218 PLN

2009-2013 **Researcher**, NCR&D (Poland, EU), **36 000 000 PLN**

2012-2016 **Principal investigator**, individual grants four times, approx. **10 000 €**

AWARDS

2018-2020 **Oral presentations:** CVPR 2020, MIDL 2020, UAI 2019 (x2), AISTATS 2018

2019 Highest scoring reviewer (**top 400**) at NeurIPS 2019

2013 The Faculty award for **best Ph.D. theses**, Wroclaw University of Technology

2009 **The best M.Sc. thesis in Poland**, Polish Information Processing Society

SELECTED PUBLICATIONS

■ Conference articles

1. E. Hoogetboom, V.G. Satorras, J.M. Tomczak, M. Welling, *The Convolution Exponential and Generalized Sylvester Flows*, NeurIPS 2020
2. D.W. Romero, E.J. Bekkers, J.M. Tomczak, M. Hoogendoorn, *Attentive Group Equivariant Convolutional Networks*, ICML 2020
3. M. Ilse, J.M. Tomczak, C. Louizos, M. Welling, *DIVA: Domain Invariant Variational Autoencoder*, MIDL 2020
4. D. Abati, J.M. Tomczak, T. Blankevoort, S. Calderara, R. Cucchiara, B.E. Bejnordi, *Conditional Channel Gated Networks for Task-Aware Continual Learning*, CVPR, 2020
5. C. Oh, J.M. Tomczak, E. Gavves, M. Welling, *Combinatorial Bayesian Optimization using the Graph Cartesian Product*, NeurIPS 2019
6. A. Habibiyan, T. van Rozendaal, J.M. Tomczak, T.S. Cohen, *Video compression with rate-distortion autoencoders*, ICCV 2019
7. M. Ilse, J.M. Tomczak, M. Welling, *Attention-based Deep Multiple Instance Learning*, ICML 2018
8. J.M. Tomczak, M. Welling, *VAE with a VampPrior*, AISTATS 2018
9. T. Davidson, L. Falorsi, N. de Cao, T. Kipf, J.M. Tomczak, *Hyperspherical Variational Auto-Encoders*, UAI 2018
10. R. van den Berg, L. Hasenclever, J.M. Tomczak, M. Welling, *Sylvester Normalizing Flow for Variational Inference*, UAI 2018

■ Journal articles

1. J.M. Tomczak, E. Weglarz-Tomczak, *Estimating kinetic constants in the Michaelis-Menten model from one enzymatic assay using Approximate Bayesian Computation*, FEBS Letters, 2019
2. J.M. Tomczak, S. Zaręba, S. Ravanbakhsh, R. Greiner, *Low-Dimensional Perturb-and-MAP Approach for Learning Restricted Boltzmann Machines*, Neural Processing Letters, 2017
3. A. Gonczarek, J.M. Tomczak, S. Zaręba, J. Kaczmar, P. Dąbrowski, M. Walczak, *Interaction prediction in structure-based virtual screening using deep learning*, Computers in Biology and Medicine, 2017

SELECTED SERVICE

■ Conferences

NeurIPS (2018, 2019, 2020), ICML (2019, 2020), ICLR (2019, 2020, 2021), AISTATS (2019, 2020, 2021), MIDL (2018), INN+@ICML (2020), INN+@NeurIPS (2019), Bayesian Deep Learning@NeurIPS (2017, 2018)

■ Journals

IEEE Trans. on Pattern Analysis and Machine Intelligence, Journal of Machine Learning Research, Bioinformatics, Medical Image Analysis, Expert Systems with Applications, IEEE Transactions on Neural Systems & Rehabilitation Engineering, Knowledge-Based Systems, IEEE Journal of Biomedical and Health Informatics, European Journal of Operation Research, Neural Processing Letters, BMC Bioinformatics