

Jakub M. Tomczak

Work address	De Boelelaan 1111, 1081 HV, Amsterdam the Netherlands	Mobile Phone	+31 614 726 114
		Webpage	jmtomczak.github.io
		Email	jmk.tomczak@gmail.com
Google Scholar	https://scholar.google.com/citations?user=XB99pR4AAAAJ		

WORK EXPERIENCE

Nov 2019 - Present	Vrije Universiteit 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 Skłodowska-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 Świątek</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 Świątek
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 Świątek

GRANTS

2022-2026	Principal Investigator , Qualcomm Individual Grant, 280 000 €
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 2018 (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

■ Book

1. J.M. Tomczak, *Deep Generative Modeling*, Springer, Cham, 2022

■ Conference articles (Top tier)

1. D.W. Romero, A. Kuzina, E.J. Bekkers, J.M. Tomczak, M. Hoogendoorn, CKConv: Continuous Kernel Convolution For Sequential Data, ICLR 2022
2. D.W. Romero, R.-J. Brintjes, J.M. Tomczak, E.J. Bekkers, M. Hoogendoorn, J. van Gemert, FlexConv: Continuous Kernel Convolutions With Differentiable Kernel Sizes, ICLR 2022
3. Y. Perugachi-Diaz, J.M. Tomczak, S. Bhulai, *Invertible DenseNets with Concatenated LipSwish*, NeurIPS 2021
4. E. van Krieken, J.M. Tomczak, A. Ten Teije, *Stochastic: A Framework for General Stochastic Automatic Differentiation*, NeurIPS 2021
5. M. Ilse, J.M. Tomczak, P. Forré, *Selecting Data Augmentation for Simulating Interventions*, ICML 2021
6. E. Hoogetboom, V.G. Satorras, J.M. Tomczak, M. Welling, *The Convolution Exponential and Generalized Sylvester Flows*, NeurIPS 2020
7. D.W. Romero, E.J. Bekkers, J.M. Tomczak, M. Hoogendoorn, *Attentive Group Equivariant Convolutional Networks*, ICML 2020
8. M. Ilse, J.M. Tomczak, C. Louizos, M. Welling, *DIVA: Domain Invariant Variational Autoencoder*, MIDL 2020
9. 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
10. C. Oh, J.M. Tomczak, E. Gavves, M. Welling, *Combinatorial Bayesian Optimization using the Graph Cartesian Product*, NeurIPS 2019
11. A. Habibian, T. van Rozendaal, J.M. Tomczak, T.S. Cohen, *Video compression with rate-distortion auto-encoders*, ICCV 2019
12. M. Ilse, J.M. Tomczak, M. Welling, *Attention-based Deep Multiple Instance Learning*, ICML 2018
13. J.M. Tomczak, M. Welling, *VAE with a VampPrior*, AISTATS 2018
14. T. Davidson, L. Falorsi, N. de Cao, T. Kipf, J.M. Tomczak, *Hyperspherical Variational Auto-Encoders*, UAI 2018
15. R. van den Berg, L. Hasenclever, J.M. Tomczak, M. Welling, *Sylvester Normalizing Flow for Variational Inference*, UAI 2018

■ Journal articles (top from the last three years)

1. J. Luo, A. Stuurman, J.M. Tomczak, J. Ellers, A.E. Eiben, The Effects of Learning in Morphologically Evolving Robot Systems, *Frontiers in Robotics and AI*, 2022
2. G. Lan, J.M. Tomczak, D. Roijers, A.E. Eiben, Time efficiency in optimization with a bayesian-evolutionary algorithm, *Swarm and Evolutionary Computation*, 2022
3. F. Lavitt, D.J. Rijlaarsdam, D. van der Linden, E. Weglarz-Tomczak, J.M. Tomczak, Deep learning and transfer learning for automatic cell counting in microscope images of human cancer cell lines, *Applied Sciences*, 2021
4. I. Gatopoulos, J.M. Tomczak, *Self-Supervised Variational Auto-Encoders*, *Entropy*, 2021
5. I. Auzina, J.M. Tomczak, *Approximate Bayesian computation for discrete spaces*, *Entropy* 2021
6. E. Weglarz-Tomczak, J.M. Tomczak, M. Talma, M. Burda-Grabowska, M. Giurg, S. Brul, *Identification of ebsele and its analogues as potent covalent inhibitors of papain-like protease from SARS-CoV-2*, *Scientific Reports*, 2021
7. 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

SELECTED REVIEWING SERVICES

■ Conferences

NeurIPS (2018, 2019, 2020, Area Chair: 2021, 2022), ICML (2019, 2020, 2021, 2022), ICLR (2019, 2020, 2021, 2022), AISTATS (2019, 2020, 2021, Area Chair: 2022), UAI (2021, 2022), MIDL (2018), INNF+@ICML (2020), INNF@NeurIPS (2019)

■ Journals

Transactions of Machine Learning Research (Action Editor), 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