

# Jakub M. Tomczak

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<b>Google Scholar</b>	<a href="https://scholar.google.com/citations?user=XB99pR4AAAAJ">https://scholar.google.com/citations?user=XB99pR4AAAAJ</a>		

## WORK EXPERIENCE

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

## EDUCATION

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<b>Oct 2009- Mar 2013</b>	<b>Ph.D. in computer science (<i>with honors</i>)</b> , 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
<b>Aug 2008- Dec 2009</b>	<b>M.Sc. in computer science</b> Blekinge Institute of Technology, Sweden <i>Supervisor:</i> Prof. Ludwik Kuzniarz
<b>Oct 2004- Jul 2009</b>	<b>M.Sc. in computer science</b> Wroclaw University of Technology, Poland <i>Track:</i> Pre-PhD <i>Supervisor:</i> Prof. Jerzy Swiątek

## GRANTS

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

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

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

## AWARDS

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**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

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### ■ Conference articles

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

### ■ Journal articles

1. I. Gatopoulos, J.M. Tomczak, *Self-Supervised Variational Auto-Encoders*, Entropy, 2021
2. I. Auzina, J.M. Tomczak, *Approximate Bayesian computation for discrete spaces*, Entropy 2021
3. E. Weglarz-Tomczak, J.M. Tomczak, A.E. Eiben, S. Brul, *Population-Based Parameter Identification for Dynamical Models of Biological Networks with an Application to *Saccharomyces cerevisiae**, Processes, 2021
4. 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

5. E. Weglarz-Tomczak, J.M. Tomczak, S. Brul, *M2R: a Python add-on to cobrapy for modifying human genome-scale metabolic reconstruction using the gut microbiota models*, Bioinformatics, 2021
6. 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

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### ■ Conferences

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

### ■ 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