MAKSIM ZHDANOV

 $\texttt{email} \; \cdot \; \texttt{website} \; \cdot \; \texttt{github} \; \cdot \; \texttt{google} \; \; \texttt{scholar} \; \cdot \; \texttt{twitter}$

research: hierarchical models, sub-quadratic architectures, weather modelling

EDUCATION			
PhD in Machine Learning University of Amsterdam, AMLab Advisors: Max Welling & Jan-Willem van de Meent		2023 -	2027
MSc in Computer Science TU Dresden GPA: 1.4 (excellent)		2019 -	2022
 Thesis: analyzing brain connectivity with generative modelling BSc in Physics Saint Petersburg State University GPA: 4.8/5.0 (with honours) Thesis: simulating skin with molecular dynamics 	5	2015 -	2019
WORK EXPERIENCE			
Research Assistant Helmholtz AI, Dresden	Apr	2022 – Apr	2023
Research Student Helmholtz AI, Dresden	Sep	2020 - Apr	2022
Research Student TU Dresden	May	2020 - Dec	2020
TEACHING			
Machine Learning I University of Amstedam, with Erik Bekkers	Sep	2023 - Dec	2023
Deep Learning II University of Amstedam, with Erik Bekkers and Stratis Gavves	Feb	2024 - May	2024
Deep Learning II University of Amstedam, with Erik Bekkers and Stratis Gavves	Feb	2025 - May	2025
TECHNICAL SKILLS			

Code: Python, C++, MATLAB ML: JAX, PyTorch, Triton, HPC

PUBLICATIONS				
Erwin: A Tree-based Hierarch Maksim Zhdanov, Max Welling, ICML 2025	Jan-Wille	m van	r for Large-scale Physical System de Meent blog	S
Clifford Steerable Convoluti Maksim Zhdanov, David Ruhe, ICML 2024	Maurice We	iler,	works Ana Lucic, Johannes Brandstetter blog	, Patrick Forré
<pre>Implicit Convolutional Kerne Maksim Zhdanov, Nico Hoffmar NeurIPS 2023</pre>	nn, Gabriel	e Ces		
Investigating Brain Connecting Maksim Zhdanov, Saskia Steir ICPR 2022 (Oral)	mann, Nico	-	Neural Networks and GNNExplainer mann	
AdS-GNN - a Conformally Equi Maksim Zhdanov, Nabil Iqbal, ICLR 2025 MLMP workshop	Erik Bekk	-		
BSA: Ball Sparse Attention f Catalin E. Brita, Hieu Nguyen ICML 2025 LCFM workshop	, Lohithsai		Geometries lla Chanchu, Domonkos Nagy, <u>Maksim</u>	<u>Zhdanov</u>
Clifford Steerable CNNs with Bálint Szarvas and <u>Maksim Zh</u> NeurIPS 2025 AI4Science work	ndanov	Basis	via Dynamic Kernels	
INVITED TALKSAI4Science Reading Group			Δ	 ug 2025
Mila, Quebec			A	ug ZVZJ