

Christoph Hofer

machine learning researcher

contact

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🌐 <https://c-hofer.github.io/>

languages

german (native)
english (fluent)

programming

Python,
C++, CUDA, C
C#,
latex

tools

pytorch, sklearn,
pandas, jupyter

timeline

2007–2014	Masters of Science in Mathematics	University of Salzburg
2014–2015	Software engineer and data scientist	COPA-DATA group
2015–2020	PhD in Computer Science	University of Salzburg
2020 –	Postdoc FWF grant Deep Homological Learning	University of Salzburg

about me

Curious researcher in the field of artificial intelligence with focus on deep learning and algebraic topology. My inherent motivation goes beyond increasing performance in a particular application but is understanding the hidden mechanics behind artificial learning. Passionate engineer with 5+ years of experience in data science and software development.

interests

professional: machine learning, mathematics, software development, software architecture, algorithms

personal: rock climbing, hiking, gaming, running, camping

publications

ISBI'17	Simple domain adaptation for cross-dataset analyses of brain MRI data	oral
IPMI'17	Constructing Shape Spaces from a Topological Perspective	oral
NeurIPS'17	Deep Learning with Topological Signatures	poster
ICML'19	Connectivity-optimized representation learning via persistent homology Learning	poster
JMLR'19	Learning Representations of Persistence Barcodes	

awards & grants

IPMI'17	Travel grant
NeurIPS'17	Travel grant
ICML'17	Travel grant
ICML'19	Top 5% reviewer