Karsten Roth

♥ karroth.com■ karsten.rh1@gmail.com

in /karsten-rothO /ConfuseziusG /Karsten Roth

Education	
PhD Computer science	since 2021
 ELLIS Program Supervisors: Zeynep Akata, Oriol Vinyals Topics: Multimodal Representation Learning, Explainable AI, Generalization in Deep Learning. 	Tuebingen, Germany
Selected Publications	
Revisiting Training Strategies and Generalization Performance in Deep Metric Learning Karsten Roth, Timo Milbich, Björn Ommer, Joseph Paul Cohen*, Marzyeh Ghassemi*	ICML 2020 Online
Paper Code Sharing Matters for Generalization in Deep Metric Learning	TPAMI 2020
Timo Milbich*, Karsten Roth *, Biagio Brattoli, Björn Ommer > Paper	Journal
 DiVA: Diverse Visual Feature Aggregation for Deep Metric Learning Timo Milbich*, Karsten Roth*, Homanga Bharawadhj, Samarth Sinha, Yoshua Bengio, Björn Ommer, Jos Paper Code 	Seph Paul Cohen Online
Revisiting Training Strategies and Generalization Performance in Deep Metric Learning	ICML 2020
 Karsten Roth*, Timo Milbich*, Samarth Sinha, Prateek Gupta, Björn Ommer, Joseph Paul Cohen Paper Code 	Online
PADS: Policy-Adapted Sampling for Visual Similarity Learning Karsten Roth*, Timo Milbich*, Björn Ommer	CVPR 2020 Online
Mask Mining for Improved Liver Lesion Segmentation	ISBI 2020
Karsten Roth, Jürgen Hesser, Tomasz Konopczynski > Paper	Iowa City, USA
 MIC: Mining Interclass Characteristics for Improved Metric Learning Karsten Roth*, Biagio Brattoli*, Björn Ommer Paper Poster Code 	ICCV 2019 Seoul, Korea
Research Experience	
Amazon AWS Research Lablet	Oct 2020 – Mar 2021
Research Intern	Tuebingen, Germany
 Research Topic: Anomaly Detection. Supervised by Peter Genter. Thomas Brox. Bernhard Schoelkope. 	
Marzyeh Ghassemi group, Vector Institute	May 2020 – Present
Research Intern	Toronto, Canada
 Research Topic: Zero- and Few-Shot Learning for Medical Data. Supervised by Marzyeh Ghassemi. 	
Yoshua Bengio group, Montreal Institute for Learning Algorithms (MILA)	Sep 2019 – Mar 2020
Research Intern	Montreal, Canada
 Research Topic: Unsupervised Representation Learning for 3D Medical Data. Supervised by Ioseph Paul Cohen and Yoshija Bengio 	
Björn Ommer group, Heidelberg Collaboratory for Image Processing (HCI)	Feb. 2018 – Present
Master Student & Student Researcher	Heidelberg, Germany
 Research Topic: Deep Metric Learning, Visual & Self-Supervised Representation Learning. Supervised by Biagio Brattoli, Timo Mulbich, Patrick Esser and Biorn Ommer 	
Alessia Ruggieri group, Center for Integrative Infectious Disease Research (CIID)	Feb. 2017 – Sep. 2019
Student Researcher	Heidelberg, Germany
Research Topic: MULTI-CELL TRACKING AND COLOCALIZATION. Supportied by RULLING KLEIN, EDED HAMPBECUT AND ALESSIA RUCCUERI.	
lürgen Hesser group. Experimental Radiooncology University Hospital Mannheim	lulv 2017 – May 2019
Student Researcher	Mannheim, Germany
Research Topic: 2D and 3D Segmentation for Liver CT Data. Supprised by Tomasz Konorzowski and Upger Herger	
V Supervised by TOMASZ KONOPZCYNSKI AND JURGEN FIESSER. Winfried Hensinger Group, Quantum Computing Sussex University	Aug 2012 – Anr 2011.
Intern	Brighton, United Kingdom
 Primary Project: Frequency Modulation Tool to address ion states. Supervised by Sebastian Weidt, David Murgia and Winfried Hensinger. 	-