Dr. rer. nat. Sebastian Lapuschkin (né Bach)

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Short Bio

Sebastian Lapuschkin received the Ph.D. degree with distinction from the Berlin Institute of Technology in 2018 for his pioneering contributions to the field of Explainable Artificial Intelligence (XAI) and interpretable machine learning. From 2007 to 2013 he studied computer science (B. Sc. and M. Sc.) at the Berlin Institute of Technology, with a focus on software engineering and machine learning.

Since 2021, he is the Head of the Explainable Artificial Intelligence at Fraunhofer Heinrich Hertz Institute (HHI) in Berlin.

He is the recipient of multiple awards, including the Hugo-Geiger-Prize for outstanding doctoral achievement and the 2020 Pattern Recognition Best Paper

His work is focused on pushing the boundaries of XAI, e.g, for achieving human-understandable explanations, and towards the effective utilization of interpretable feedback for the improvement of machine learning systems and data. Further research interests include efficient machine learning and data analysis, as well as data and algorithm visualization.

Professional Experience

Berlin, Germany
Jan '21 – today
Jan '19 – Dec '20
Oct '14 – Dec '18
Berlin, Germany
Sep '13 – Sep '14
Oct '11 – Aug '13
TU Berlin.

Student Teaching Assistant

(née Winkler) and Dr. Daniel Bartz.

Oct '09 - Sep '11

Teaching assistant to Prof. Dr. Marc Alexa, Prof. Dr. Odej Kao and Prof. Dr. Oliver Brock.

Teaching assistant to Prof. Dr. Klaus-Robert Müller, Prof. Dr. Dr. Franz Király, Dr. Irene Dowding

Ed

ducation	
Berlin Institute of Technology	Berlin, Germany
PhD in Machine Learning (with distinction / "summa cum laude")	2013 - 2018
Thesis: "Opening the machine learning black box with Layer-wise Relevance F	Propagation"
Supervision headed by Prof. Dr. Klaus-Robert Müller.	
Master of Science in Computer Science	2010 - 2013
Focus on machine learning, computer vision and large scale data analysis.	
Bachelor of Science in Computer Science	2007 - 2010
Focus on algorithms and software development	
Deutschhaus-Gymnasium	Würzburg, Germany
Abitur (pre-university secondary education)	1998 – 2007

Teaching

Teaching and teaching support of 11 university courses since 2010

Supervision & Guidance

Collaboration with and supervision of 2 PostDocs, 19 PhD Students, 17 Master's Students, 1 Bachelor's Student and 4 Guest Researchers since 2017

Third-Party Funded Research Projects

6 third-party funded research projects acquired and managed since 2018

Awards

Stanford Top 2% Scientist Worldwide 2022 (2023)

Best Short Paper Award (2023)

Stanford Top 2% Scientist Worldwide 2021 (2022)

Pattern Recognition Best Paper Award and Pattern Recognition Medal (2020)

Hugo-Geiger-Prize (2019, 1st place)

Freunde des HHI (2019)

ERCIM (2019, finalist)

Best Paper Award (2016)

Patents

Method and System for Simulating an Optical Image of a Photonic and/or Electronic Device Pruning and/or Quantizing Machine Learning Predictors

Relevance Score Assignment for Artificial Neural Networks

Talks & Lectures

Over 30 invited talks and individual lectures held since 2017. Excludes teaching activities and internal/confidential events.

Publications

Summary of Scientific Impact

	All	Since 2018
# Publications	59	44
# Citations	12155	11698
h-index	29	28
i10-index	42	42

per Google Scholar, retreived on October 16th, 2023.

²³ Journal Papers in eg. Nature Machine Intelligence, Nature Communications, Information Fusion, Pattern Recognition, Scientific Reports, Journal of Machine Learning Research and others.

²² Conference Papers in Proc. of eg. MICCAI, CVPR, NeuRips, ICIP, ICML, ICPR and others.

⁴ Book Chapters published.

¹⁰ Preprints published.