Shweta Mahajan

Personal Data

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Scholar profile:	https:tinyurl.com/yzm72s7w

Research Interests

Deep Generative Models. Multimodal Learning. Vision and Language.

Education

2018-*Present*	Doctoral Researcher, Visual Inference, **TU Darmstadt**, Germany Thesis: Deep Generative Models for Multimodal Learning Advisor: Prof. Stefan Roth, Ph.D.
Nov 2017	Master of Science in Informatics, **Saarland University**, Germany Thesis: Learning Neural Networks with Sparsity Constraints Advisor: Prof. Dr. Matthias Hein Gpa: 1.4/1
May 2013	Bachelor of Technology, **National Institute of Technology**, Hamirpur, India Major: Computer Science and Engineering Gpa: 7.98/10
March 2009	All India Senior School Certificate Examination, **Army School**, Kangra, India Major: Mathematics, Physics, Chemistry Percentage: 94/100

Publications

2021	PixelPyramids: Exact Inference Models from Lossless Image Pyramids *S. Mahajan and S. Roth*, ICCV, 2021
2021	Diverse Image Captioning with Grounded Style *F. Klein, S. Mahajan and S. Roth*, GCPR, 2021
2020	Diverse Image Captioning with Context-Object Split Latent Spaces *S. Mahajan and S. Roth*, NeurIPS, 2020
2020	Normalizing Flows with Multi-scale Autoregressive Priors *S. Mahajan*[*], *A. Bhattacharyya*[*], *M. Fritz, B. Schiele and S. Roth*, CVPR, 2020
2020	Latent Normalizing Flows for Many-to-Many Cross-Domain Mappings *S.Mahajan, I. Gurevych and S. Roth*, ICLR, 2020
2019	Joint Wasserstein Autoencoders for Aligning Multimodal Embeddings *S.Mahajan, T.Botschen, I. Gurevych and S. Roth*, ICCVW 2019

Experience

2016-2017	Research Assistant, Machine Learning Group, Saarland University, Germany Topic: Neural Networks with Sparsity Constraints
2015-2016	Research Assistant, Exploratory Data Analysis Group, Max Planck Institute of Informatics, Germany Topic: Causal Information by Direction of Information
2013-2015	Software Engineer, Samsung Research Institute, Delhi Part of the eboard utility team which develops applications for eboard
May-July 2012	Intern, Samsung Electronics Ltd., Delhi, India Part of the research and development team which develops solutions for BADA OS platform

Professional Activities

- Reviewer: IJCV, ICLR 2022, ICML 2021, NeurIPS 2019-21, ICCV 2019-21, CVPR 2018-22, AAAI 2019-21

Teaching

- Teaching Assistant: Deep Learning for Computer Vision, 2020-21, 2021-22
- Teaching Assistant: Computer Vision I, 2021-22
- Teaching Assistant: Computer Vision II, 2020

Thesis Supervision

- Claudia Lölkes. Quantification of Semantic Spaces in Generative Models for Images
- Franz Klein. Diverse Image Captioning with Style

Relevant Courses

Machine Learning. Convex Optimization. High Level Computer Vision.

Honours and Certificates

2013	Employee of the Month award at Samsung Research Institute, Delhi, India
2012	Most Innovative Project award for Bachelor Thesis
2009	All India Engineering Entrance Examination: In the top 5%
2006	96 Percentile in Science and 95 Percentile Mathematics in Academic Aptitude and Achievement Test conducted by Institute of Psychological and Educational Measurement, Allahabad and Council for the Indian School Certificate Examinations, New Delhi

Other Interests

• Sports: Running, Yoga, Hiking • Literature: Science Fiction, Biographies