

# Shweta MAHAJAN

## PERSONAL DATA

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SCHOLAR PROFILE: <https://tinyurl.com/yzm72s7w>

## RESEARCH INTERESTS

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Deep Generative Models. Multimodal Learning. Vision and Language.

## EDUCATION

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| 2018-2022  | Doctoral Researcher, VISUAL INFERENCE, <b>TU Darmstadt</b> , Germany<br>Thesis: Multimodal Representation Learning for Diverse Synthesis with Deep Generative Models<br>Advisor: Prof. Stefan Roth, Ph.D.<br>GPA: Passed with Distinction, summa cum laude |
| Nov 2017   | Master of Science in Informatics, <b>Saarland University</b> , Germany<br>Thesis: Learning Neural Networks with Sparsity Constraints<br>Advisor: Prof. Dr. Matthias Hein<br>GPA: 1.4/1   |
| May 2013   | Bachelor of Technology, <b>National Institute of Technology</b> , Hamirpur, India<br>Major: Computer Science and Engineering<br>GPA: 7.98/10   |
| March 2009 | All India Senior School Certificate Examination, <b>Army School</b> , Kangra, India<br>Major: Mathematics, Physics, Chemistry<br>PERCENTAGE: 94/100  |

## EXPERIENCE

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

## PROFESSIONAL ACTIVITIES

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- Reviewer: IJCV, ICLR 2022-23, ICML 2021-22, NeurIPS 2019-22, ICCV 2019-21, CVPR 2018-22, AAAI 2019-21

## TEACHING

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- 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

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- Oliver Hahn. Multimodal Data Augmentation for Image Captioning. Master's Thesis, 2021
- Claudia Lölkes. Quantification of Semantic Spaces in Generative Models for Images. Master's Thesis, 2020
- Franz Klein. Diverse Image Captioning with Style. Master's Thesis, 2020

## RELEVANT COURSES

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Machine Learning. Convex Optimization. High Level Computer Vision.

## HONOURS AND CERTIFICATES

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- 2021 Best Paper Award, Computer Graphik Abend 2021, Impact on Science
- 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

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

## LANGUAGE SKILLS

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- English: *Fluent*. • German: *B1*. • Hindi: *Native*.