Rakshith Shetty

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Education

2017–2020 Expected	**Ph.D student**, *Max Planck Institute for Informatics*, Saarbrücken. Supervisors: Prof. Dr. Bernt Schiele and Dr. Mario Fritz
2014–2016	**Master of Science**, *Aalto University*, Helsinki, Finland. Major : Machine Learning and Data Mining. (CGPA: *4.84 / 5.0*) Thesis : Natural Language description of Images and Videos (Grade: *5.0/5.0*)
2007–2011	**Bachelor of Engineering**, *Visvesvaraya Technological University*, Bangalore, India. Major : Electronics and Communication Engineering. (CGPA: *9.04 / 10.0*)

Selected Conference Publications

2020 V. Agarwal, **R. Shetty**, and M. Fritz, "Towards causal VQA: Revealing and reducing spurious correlations by invariant and covariant semantic editing," in *CVPR*.

R. Shetty, M. Fritz, and B. Schiele, "Towards automated testing and robustification by semantic adversarial data generation," in *ECCV* **(oral)**.

2019 **R. Shetty**, B. Schiele, and M. Fritz, "Not using the car to see the sidewalk: Quantifying and controlling the effects of context in classification and segmentation," in *CVPR*.

2018 **R. Shetty**, M. Fritz, and B. Schiele, "Adversarial scene editing: Automatic object removal from weak supervision," in *NeurIPS*.

R. Shetty, B. Schiele, and M. Fritz, "A^4NT: Author attribute anonymity by adversarial training of neural machine translation," in *USENIX Security '18 (top conference in privacy/security research)*.

2017 **R. Shetty**, M. Rohrbach, L. A. Hendricks, M. Fritz, and B. Schiele, "Speaking the same language: Matching machine to human captions by adversarial training," in *ICCV*.

H. R. Tavakoli, **R. Shetty**, A. Borji, and J. Laaksonen, "Paying attention to descriptions generated by image captioning models," in *ICCV*.

2013 **R. Shetty** and P. Sethuraman, "Ofdm radio based range and direction sensor for robotics applications," in *IEEE RAICS*.

Selected Workshop Publications

2018   M. Wagner, H. Basevi, **R. Shetty**, W. Li, M. Malinowski, M. Fritz, and A. Leonardis, "Answering visual what-if questions: From actions to predicted scene descriptions," in *VLEASE Workshop, ECCV*.

2016   **R. Shetty** and J. Laaksonen, "Frame- and segment-level features and candidate pool evaluation for video caption generation," in *ACMMM Multimedia Grand Challenge Solutions Workshop*.

2015   **R. Shetty** and J. Laaksonen, "Video captioning with recurrent networks based on frame-and video-level features and visual content classification," in *LSMDC Workshop, ICCV*.

Achievements and Honors

Jun. 2018   **Qualcomm Innovation Fellowship, Europe**.

Jun. 2018   **Master's Thesis Award 2016-2017**.
Finnish Society for Computer Science

Jul. 2017   **Master's Thesis award 2016**.
Aalto Univiersity School of Science

Dec. 2016   **Excellent Master's Thesis award**.
Media Industry Research Foundation of Finland

Jun. 2016   **Joint Winner of the Microsoft Video to Language Challenge**.
Held as part of ACMMM Multimedia Grand Challenge 2016, the Microsoft Video to Language Challenge involved generating textual descriptions of video clips extracted from web videos.

Dec. 2015   **Winner of the Large Scale Movie Description Challenge**.
Held as part of ICCV 2015, the Large Scale Movie Description Challenge required participants to generate short descriptions for movie clips.

Dec. 2013   **Best Paper Award**, *IEEE RAICS*.
To our paper "OFDM Radio based Range and Direction Sensor for Robotics Applications"

Work Experience

2014–2016   **Research Assistant**, *Aalto University*, Helsinki.

2011–2014   **Systems Design Engineer**, *Broadcom India Research Ltd.*, Bangalore.

Academic Activities

2018-Present   **Official Reviewer**, *NeurIPS 2020, ECCV 2020, ICML 2020, CVPR 2020, AAAI 2020, NeurIPS 2019, ICCV 2019, CVPR 2018*.

Teaching Assistantship

o High Level Computer Vision, Saarland University, 2017-2020

o Machine Learning: Basic Principles, Aalto University, 2015

o Digital Signal Processing, PES Institute of Technology, 2010