

Aniket Rege

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University of Wisconsin-Madison
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EDUCATION

University of Wisconsin-Madison

PhD in Computer Sciences

Advisor: Prof. Ramya Vinayak

2023 - present

University of Washington

MS in Electrical and Computer Engineering

Advisor: Prof. Ali Farhadi

2021 - 2023

National Institute of Technology Karnataka

B.Tech in Electronics and Communication Engineering

Advisor: Prof. Muralidhar Kulkarni

2014 - 2018

WORK EXPERIENCE

NVIDIA, Redmond

Applied Research Intern, Deep Learning for Autonomous Vehicles

Advisors: Dr. Nikolai Smolyanskiy & Dr. Stan Birchfield

June - Sept, 2022

Samsung Research India, Bangalore

AI Camera Research Engineer in Visual Intelligence Group

Advisors: Sudha Velusamy & Dr. Shankar Venkatesan

2018 - 2021

PUBLICATIONS

Conference Publications

* - equal contribution

5. AdANNS: A Framework for Adaptive Semantic Search.

Aniket Rege*, Aditya Kusupati*, Sharan Ranjit S, Alan Fan, Qingqing Cao, Sham Kakade, Prateek Jain, and Ali Farhadi.

Neural Information Processing Systems (NeurIPS), 2023.

4. Matryoshka Representation Learning.

Aniket Rege*, Aditya Kusupati*, Gantavya Bhatt*, Matthew Wallingford, Aditya Sinha, Vivek Ramanujan, William Howard-Snyder, Kaifeng Chen, Sham Kakade, Prateek Jain, and Ali Farhadi.

Neural Information Processing Systems (NeurIPS), 2022.

3. Spatio-Temporal Video Representation Learning for AI Based Video Playback Style Prediction.

Rishubh Parihar*, Gaurav Ramola*, Ranajit Saha, Raviprasad Kini, Aniket Rege, and Sudha Velusamy.

International Conference on Computer Vision (ICCV W), 2021.

SRVU workshop @ ICCV, 2021.

2. FabSoften: Face beautification via dynamic skin smoothing, guided feathering, and texture restoration.

Sudha Velusamy, Rishubh Parihar, Raviprasad Kini, Aniket Rege.

Conference on Computer Vision and Pattern Recognition (CVPR W), 2020.

NTIRE workshop @ CVPR, 2020.

1. QUIC Protocol Performance in Wireless Networks.

Prashant Kharat*, Aniket Rege*, Aneesh Goel*, and Muralidhar Kulkarni.

IEEE International Conference on Communication and Signal Processing (ICCSP), 2018.

Patents

2. Method and electronic device for detecting candid moment in image frame.

Aniket Rege*, Gaurav Ramola*, Nikhar Maheshwari*, Sudha Velusamy, Girish Kulkarni, Sai Pranav Mathivanan, Swadha Jaiswal, and Pradeep Kumar Vagireddi.

U.S. Patent App. 17/743,990, filed September 1, 2022.

1. **Method and electronic device for processing facial images.**

Sudha Velusamy, Rahul Varna, Raviprasad Kini, **Aniket Rege**, Rishubh Parihar, Daeyoung Hyun.
U.S. Patent 11,335,122, issued May 17, 2022.

Theses

1. **Congestion Control in Wireless Networks.**

Aniket Rege*, Aneesh Goel*, and Muralidhar Kulkarni.

Undergraduate Thesis, Electronics and Communication Engineering, NITK Surathkal, 2018.

SELECTED AWARDS AND HONORS

- **CS Departmental Scholarship**, UW-Madison 2023
- **NeurIPS Scholar Award** 2022
- **University of Washington Graduate School Award** for NeurIPS '22 2022
- **Samsung HQ Best Project Award** as founding member of **Single Take Camera**, the USP of the Galaxy S20 smartphone 2021
- **Samsung Best Paper Award '19 Finalist** for FabSoften, later published at CVPR '20, selected from all worldwide offices 2019
- **Samsung India Outstanding Contribution Award** for shipping **AI Beauty Solution** to 50M+ smartphones worldwide 2019
- **Road to Global Entrepreneurship Summit (GES) '17 national finalist** for *An Analysis of Sleep Hygiene*. Conducted by NITI Aayog under the Government of India. 2017

PROFESSIONAL RESPONSIBILITIES

- *Graduate Teaching Assistant*, University of Washington
 - CS 540: Introduction to Artificial Intelligence - Prof. Jerry Zhu Fall 2023
- *Graduate Teaching Assistant*, University of Washington
 - CSE 493: Deep Learning - Prof. Ranjay Krishna Spring 2023
 - CSE 547: Machine Learning for Big Data - Prof. Tim Althoff Winter 2023
 - EE 596: Computer Vision: Classical and Deep Methods - Dr. Stan Birchfield Fall 2021
- *Mentor* - supervised two interns in the AI Camera team of the Visual Intelligence Group at SRIB.
 - 1. **Ankit Pandey**: AI Double Exposure Blending for Galaxy S22. Apr - Jul 2021
 - 2. **Nikhar Maheshwari**: Automated Bokeh Classification for Galaxy S21. May - Jul 2020
- *Samsung University Representative* - Technical liaison for hiring of students from NITK 2018 - 2021
- *Undergraduate Teaching Assistantship*, Linear Signals and Systems - Department of ECE, NITK 2015 - 2016