

Swati

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<https://jswati31.github.io/>

EDUCATION

University of California, Santa Cruz

Santa Cruz, CA, USA

Ph.D. in Computer Science, GPA: 3.9/4.0

2018-Present

- Advisor: Dr. Roberto Manduchi
- Research Area: Gaze Tracking

Indian Institute of Technology (IIT), Hyderabad

Hyderabad, India

M.Tech in Electrical Engineering, GPA: 9.03/10

July 2014 – June 2016

- Advisor: Dr. K. Sri Rama Murty

Panjab University

Chandigarh, India

B.E. in ECE, GPA: 8.67/10

July 2010 – June 2014

EXPERIENCE

Applied Scientist Intern

June 2020 - August 2020

Amazon

Seattle, WA, USA

- Video and Rekognition Team, Mentors: Jon Wu, Yash Singh, Meng Wang

Applied Scientist Intern

June 2019 - Sept 2019

Amazon

Seattle, WA, USA

- Video and Rekognition Team, Mentors: Jon Wu, Meng Wang

Researcher

July 2016 - August 2018

TCS Innovation Labs

New Delhi, India

- Deep Learning Team, Mentors: Lovekesh Vig, Gautam Shroff

PUBLICATIONS/PATENTS

Publications

- **Swati**, Xin Eric Wang, “*CUDA-GHR: Controllable Unsupervised Domain Adaptation for Gaze and Head Redirection*” (under submission).
- **Swati**, Harsimran Kaur, Roberto Manduchi, “Tracker/Camera Calibration for Accurate Automatic Gaze Annotation of Images and Videos”, **ETRA**, Seattle, USA, June 2022.
- Harsimran Kaur, **Swati**, Roberto Manduchi, “Rethinking Model-Based Gaze Estimation”, **ETRA**, Seattle, USA, June 2022.
- Vishwanath D, Rohit Rahul, Gunjan Sehgal, **Swati**, Arindam Chowdhury, Monika Sharma, Lovekesh Vig, Gautam Shroff, Ashwin Srinivasan, “*Deep Reader: Information extraction from Document images via relation extraction and Natural Language*”, IWRR, **ACCV**, Perth, Australia, December 2018.
- **Swati**, M. Sharma, Lovekesh Vig, “*Automatic Classification of Low-Resolution Chromosomal Images*”, Bio-Image Computing (BIC), **ECCV**, Munich, Germany, September 2018.
- **Swati**, M. Sharma, Lovekesh Vig, “*Automatic Chromosome Classification using Deep Attention Based Sequence Learning of Chromosome Bands*”, in the proceedings of **IJCNN**, Brazil, July 2018.
- G. Gupta, **Swati**, M. Sharma, Lovekesh Vig, “*Information Extraction from Hand-marked Industrial Inspection Sheets*”, CBDAR, **ICDAR**, Kyoto, Japan, November 2017.
- **Swati**, G. Gupta, M. Yadav, M. Sharma, Lovekesh Vig, “*Siamese Networks For Chromosome Classification*”, Bio-Image Computing (BIC), **ICCV**, Venice, Italy, October 2017.

Patents

- Method and System for Automatic Chromosome Classification (# India - 201821025353)
- Method and System for Extracting Information from Hand-Marked Industrial Inspection Sheets (# India - 201721039681, # US - 15938806)

TECHNICAL SKILLS

Languages: Python, C, C++

Frameworks: PyTorch, Keras, Tensorflow, OpenCV

Tools: MATLAB, Git, Latex

SCHOLARSHIPS AND AWARDS

- Received UC Dean Fellowship (amongst 4 students) for Winter and Spring 2019.
- Received UC Regent Fellowship for Fall 2018.
- Outstanding inventive spirit award for filing multiple patents for TCS Research India.
- All India Rank 432 - Top 0.2% (amongst 2,16,000) in GATE-2014.
- All India Rank 8507 - Top 1.2% (amongst 4,70,000) in IIT JEE-2010.

TEACHING ACTIVITIES

Spring 2021 Computer Vision

Spring 2020 Computer Vision

Fall 2019 Universal Access

Winter 2016 Adaptive Signal Processing

Fall 2015 Probability and Random Processes