Swati Jindal

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Education

University of California, Santa Cruz — Santa Cruz, CA, USA
Ph.D. in Computer Science, GPA: 3.9/4.0 — *Sept 2018 – June 2023 (expected)*

- Advisor: Prof. 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: Prof. K. Sri Rama Murty

Panjab University — Chandigarh, India
B.E. in Electrical Engineering, GPA: 8.67/10 — *July 2010 – June 2014*

Experience

Applied Scientist Intern — June 2020 - August 2020
Amazon Rekognition Team — *Seattle, WA, USA*

- Mentors: Jon Wu, Yash Singh, Meng Wang

Applied Scientist Intern — June 2019 - Sept 2019
Amazon Rekognition Team — *Seattle, WA, USA*

- Mentors: Jon Wu, Meng Wang

Researcher — July 2016 - August 2018
TCS Innovation Labs — *New Delhi, India*

- Mentors: Lovekesh Vig, Gautam Shroff

Publications/Patents

Publications

- ***Swati Jindal***, Roberto Manduchi, *"Contrastive Representation Learning for Gaze Estimation"*, accepted at **NeurIPS 2022** Gaze Meets ML Workshop (Spotlight).
- ***Swati Jindal***, Xin Eric Wang, *"CUDA-GHR: Controllable Unsupervised Domain Adaptation for Gaze and Head Redirection"*, accepted at **WACV 2023**.
- ***Swati Jindal***, Harsimran Kaur, Roberto Manduchi, "Tracker/Camera Calibration for Accurate Automatic Gaze Annotation of Images and Videos", **ETRA**, Seattle, USA, June 2022.
- Harsimran Kaur, ***Swati Jindal***, 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)

Skills

Languages: Python **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

Fall 2022	Machine Learning
Spring 2021	Computer Vision
Spring 2020	Computer Vision
Fall 2019	Universal Access
Winter 2016	Adaptive Signal Processing
Fall 2015	Probability and Random Processes