

Swati

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

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EDUCATION

University of California, Santa Cruz

Ph.D. in Computer Science and Engineering, GPA : 4/4

Sept. 2018 – Present

Advisor - Professor Roberto Manduchi

Research Interests - Machine learning, Deep learning and Computer Vision

Indian Institute of Technology (IIT), Hyderabad

Masters in Electrical Engineering, GPA : 9.03/10

July 2014 – June 2016

Advisor - Dr. K. Sri Rama Murty

EXPERIENCE

Researcher, TCS Innovation Labs, New Delhi

July 2016 - August 2018

- Worked in Deep learning and it's applications in Computer Vision

Teaching Assistant, Indian Institute of Technology, Hyderabad

August 2015 - April 2016

- Probability and Random Processes
- Adaptive Signal Processing

PUBLICATIONS

- 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).

PROGRAMMING SKILLS

- **Languages:** Python, Theano, Keras
- **Tools:** OpenCV, MATLAB, LATEX, familiar with Linux

RELEVANT COURSES

Computer Vision, Machine Learning, Deep Learning, Probability & Random Processes, Digital Image and Video Processing, Analysis of Algorithms, Digital Signal Processing, Adaptive Signal Processing, Detection and Estimation Theory, Information Theory, Applied Bayesian Statistics, Numerical Linear Algebra.

ACHIEVEMENTS

- **Outstanding inventive spirit award** for filing multiple patents for TCS Research India.
- Eligible for **UC Dean Fellowship** (amongst 4 students) for Winter and Spring 2019 .
- Received **UC Regent Fellowship** for Fall 2018.
- 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.