

Yashasvi Baweja

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EDUCATION

JOHNS HOPKINS UNIVERSITY
PHD IN ELECTRICAL AND COMPUTER
ENGINEERING
Aug 2019-Present

**INDRAPRASTHA INSTITUTE OF
INFORMATION TECHNOLOGY-
DELHI**
B.TECH IN COMPUTER SCIENCE AND
ENGINEERING
2015-2019 | GPA: 8.31/10.0

LINKS

LinkedIn:// [yashasvi-baweja](#)
Google Scholar:// [Yashasvi](#)
Twitter:// [@yashasvi_baweja](#)

COURSEWORK

GRADUATE

Machine Learning for Signal
Processing(A+)
Compressed Sensing(A)
Wavelets and Filter Banks(A)
Vision as Bayesian Inference(A)
Machine Perception(ongoing)
Reliable Software Systems(Spring 2021)

UNDERGRADUATE

Advanced Machine Learning(A)
Statistical Machine Learning(A)
Database Systems Fundamentals(A)
Systems Management(A)
System Administration(A)
Artificial Intelligence(A)
Probability and Statistics(A)

SKILLS

PROGRAMMING

Over 5000 lines:
Python • Pytorch • \LaTeX
Over 1000 lines:
MATLAB • Java
Familiar:
C • C++ • HTML

RESEARCH

JHU VISION LAB(ECE) | GRADUATE RESEARCH ASSISTANT
Aug 2019 – Present | Baltimore, MD
Exploring multiple deep learning methods for face anti-spoofing, with **Prof Vishal Patel**.

IIIT-D BIOMETRICS LAB | UNDERGRADUATE RESEARCHER
Aug 2016 – May 2019 | New Delhi, India
Worked with **Prof Richa Singh** and **Prof Mayank Vatsa** to differentiate images from different modality using metric learning.

PUBLICATIONS

- [1] K. Agrawal, **Yashasvi Baweja**, D. Dwivedi, R. Saha, P. Prasad, S. Agrawal, S. Kapoor, P. Chaturvedi, N. Mali, V. U. Kala, and V. Dutt. A comparison of class imbalance techniques for real-world landslide predictions. *ICMLDS*, 2017.
- [2] **Yashasvi Baweja**, P. Oza, P. Perera, and V. M. Patel. Anomaly detection-based unknown face presentation attack detection. *IJCB*, 2020.
- [3] Rishabh Garg, **Yashasvi Baweja**, S. Ghosh, R. Singh, M. Vatsa, and N. Ratha. Heterogeneity aware deep embedding for mobile periocular recognition. *BTAS*, 2018.

AWARDS AND ACHIEVEMENTS

2020	Top 3	IJCB Audience Choice Best Presentation Award [ppt]
2019	Funding	Selected for ECE grant fellowship at JHU
2018	250/100k+	Visited Google, India campus as part of Intern Connect Program.
2015	National	Secured 7,952 rank out of 1.5 million candidates in JEE Mains.

EXPERIENCE

CENTER FOR AI, IIITD | RESEARCH INTERN

Summer 2018 | New Delhi, India
Took lead in developing face recognition system for Yamaha, Japan. Built a deliverable for direct deployment in golf carts.

ML SYSTEMS LLC, DELAWARE | INTERN

Summer 2018 | Remote work
Shipped an user interface to design ultra high-speed neural networks.

IIT MANDI | RESEARCH INTERN

Summer 2017
Developed an Arduino based landslide monitoring weather station with **Prof. Varun Dutt** which is currently in deployment.

TEACHING ASSISTANT | COMPUTER VISION

Fall 2019 | IIITD
Taught sophomores and juniors the basics of computer vision. Gave a lecture on epipolar geometry.