# 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:// **@whybaweja**

## COURSEWORK

### GRADUATE

Machine Learning for Signal Processing(A+)
Compressed Sensing(A)
Wavelets and Filter Banks(A)
Vision as Bayesian Inference(A)
Machine Perception(A)

### 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 • Keras
Familiar:
C • C++ • HTML • Tensorflow

### SYSTEMS/FRAMEWORKS

Proficient:
Linux, Git, OpenCV, TensorBoard, Scikit-Learn, Visual Studio, PyCharm

## 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

**2020**
**Y. Baweja**, P. Oza, P. Perera and V. M. Patel. Anomaly detection-based unknown face presentation attack detection. *IJCB, 2020 (Virtual)* [**link**]

**2018**
R. Garg, **Y. Baweja**, S. Ghosh, R. Singh, M. Vatsa and N. Ratha. Heterogeneity aware deep embedding for mobile periocular recognition. *BTAS, 2018* [**link**]

**2017**
K. Agrawal, **Y. 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* [**link**]

## AWARDS AND ACHIEVEMENTS

| Year | | |
|------|------|------|
| 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

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

**CENTER FOR AI, IIITD** | Research Intern
Summer 2018 | New Delhi, India
Lead developer in building face recognition system for automated greeting to be deployed in golf carts for Yamaha, Japan. *Skills: Python, PyTorch*

**ML SYSTEMS LLC, DELAWARE** | Intern
Summer 2018 | Remote work
Built a user interface to design high-speed neural networks configurations for large-scale training systems. *Skills: Python, Qt*

**IIT MANDI** | Research Intern
Summer 2017
Developed an Arduino based landslide monitoring weather station with **Prof. Varun Dutt** which is currently in deployment. *Skills: Python, Arduino*