*Ph.D.*

# NRIPESH PARAJULI

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## EDUCATION

**Yale University** — **New Haven, CT**
*PhD, Electrical Engineering* — Expected Aug 2017
*MS, Electrical Engineering* — May 2014

**Lafayette College** — **Easton, PA**
*BS, Electrical & Computer Engineering (Minor: Mathematics)* — May 2012
GPA: 3.82, Honors: Tau Beta Pi, Eta Kappa Nu

## SUMMARY STATEMENT

A highly self-motivated individual who thrives in a collaborative setting and brings depth and breadth from the fields of signal processing, computer vision and machine learning to the table.

## COMPUTING SKILLS

*Languages*

- Python, MATLAB, Java, and C/C++.

*Skills*

- Machine learning and statistical packages such as Keras, Scikit-learn, Scipy, Numpy and NLTK in Python and Image/Signal Processing Toolboxes in MATLAB.
- Object oriented design and development of algorithms and data structures in Java, Python and C++.

## RELEVANT COURSEWORK

- Computer Vision and Biological Perception, Biomedical Image Processing, Stochastic Processes, Convex Optimization, Data Mining and Machine Learning, Probability and Estimation theory for Image Analysis, Natural Language Processing.
- Software Engineering, Data Structures, Algorithms.

## WORK EXPERIENCE

**IBM Research** — **Almaden, CA**
*Intern*ship — June 2015 – Sept 2015

- Worked in a team of 4 to develop algorithms for automatic detection of Aortic Stenosis from Doppler Echocardiography images.
- Developed and implemented an ECG extraction algorithm from Echocardiographic images, which was more accurate and significantly more robust than pre-existing method. The algorithm was reported in a recent publication and is also part of a recent IBM patent filing.
- In collaboration with a language processing scientist, cross-referenced and correlated 5000 Echocardiographic images and corresponding text files and presented findings to other colleagues and interns.

**Alcatel Lucent (Bell Labs)** — **Murray Hill, NJ**
*Intern*ship — June 2012 – Aug 2012

- Wrote Python scripts to assist the retrieval of over 1000 employee documents and transfer the information in the documents to a database.
- Developed a web application (*HTML*, *JavaScript*) to search and extract information from the database, which was used by 3 other employees upon completion.

## RESEARCH EXPERIENCE

**Yale University** — **New Haven, CT**
*PhD Research – (Supervisor: Dr. James Duncan)* — Fall 2012 – Present