

# VIGHNESH BIRODKAR

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## EDUCATION

**MS in Computer Science – GPA: 3.93/4** 2015 - 2017

*New York University - Courant Institute, New York, USA*

**B.Tech Computer Science & Engineering – GPA: 8.05/10** 2010 - 2014

*National Institute of Technology, Goa, India*

## PUBLICATIONS

• Emily Denton, Vighnesh Birodkar “**Unsupervised Learning of Disentangled Representations from Video**” – *Neural Information Processing Systems*, Long Beach, California December 2017

• Marcelo Cicconet, Vighnesh Birodkar, Mads Lund, Michael Werman, Davi Geiger “**A convolutional approach to reflection symmetry**” – *Pattern Recognition Letters* August 2017

## WORK EXPERIENCE

**Research Scientist, FeatureX, Inc.** June 2017- Present

- Use deep neural networks to discover trends in global economic activity.

**Research Assistant, Prof. Davi Geiger** September 2016 - December 2016

- Action recognition in videos using Deep Neural Networks.
- Study the effects of imposing linear constraints on latent vectors through time.

**Junior Data Scientist, NYU Centre for Data Science** September 2015 - May 2016

- Implemented machine learning algorithms for scikit-learn.
- Created the project template for scikit-learn-contrib.

**Software Development Engineer, Samsung Research India** June 2014 - June 2015

- Embedded application development in Printers Division.
- Revamped the Firmware Update process.

## INTERNSHIPS

**Deep Learning Intern, Butterfly Network Inc.** January 2017 - May 2017

- Develop deep learning algorithms for ultrasound images.

**Summer Intern, DeepMagic Inc.** June 2016 - August 2016

- Collected and augmented images.
- Designed and deployed deep networks for image recognition.

**Google Summer of Code Student, Python Software Foundation** June 2014 - September 2014

- Designed Region Adjacency Graph Data structures from scikit-image.
- Implemented Region Adjacency Graph based segmentation algorithms.

**Google Summer of Code Student, SimpleCV** June 2013 - September 2013

- Designed a Display System for local applications in Python.
- Designed a Display System for remote applications using Python, HTML and Javascript.

**Summer Intern, IIT Bombay** May 2013 - June 2013

- Designed a Visual Programming Environment for Arduino Boards
- Ported the Visual Programming Environment for Windows, Linux and Android