# Ajjen Joshi

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## ABOUT

**PHD CANDIDATE**
Dept. of Computer Science,
Boston University
expected May 2018
Research Interests in Computer Vision, Machine Learning and Human Computer Interaction

## EDUCATION

**BOSTON UNIVERSITY**
MS in Computer Science
August 2014 | Boston, MA
GPA: 3.90/4.0

**CONNECTICUT COLLEGE**
BA in Computer Science and Architectural Studies
May 2012 | New London, CT
GPA: 3.96 / 4.0 (Summa Cum Laude)

**ST. XAVIER'S SCHOOL**
High School Diploma
May 2007 | Kathmandu, Nepal
Rank: 1/108

## COURSEWORK

**GRADUATE**
Machine Learning
Image and Video Computing
Computer Graphics
Data Mining
Randomized Algorithms

**UNDERGRADUATE**
Web and Mobile Computing
Artificial Intelligence
Multimedia Processing
Database Systems
Graphics and Virtual Environments

## SKILLS

**PROGRAMMING**
Java • Python • C++ • Matlab
HTML/CSS • PHP • MySQL
Processing

**DEEP LEARNING**
Caffe • TensorFlow

## EXTRACURRICULARS

**AJJENJOSHI.COM**
Visual Creative

## SELECTED PUBLICATIONS

[1] Ajjen Joshi, S. Ghosh, H. Pfister. Hierarchical Bayesian Neural Networks for Personalized Gesture Recognition. Current

[2] Ajjen Joshi, L. Tickle-Degnen, S. Gunnery, T. Ellis, M. Betke. Predicting Active Facial Expressivity in People with Parkinson's Disease. International Conference on Pervasive Technologies Related to Assistive Environments (PETRA), 2016. Oral.

[3] A. Kurauchi, W. Feng, Ajjen Joshi, C. Morimoto, M. Betke. EyeSwipe: Dwell-free Text Entry Using Gaze Paths. ACM Conference on Human Factors in Computing Systems (CHI), 2016. Oral.

[4] H. Le, Ajjen Joshi, M. Betke. b3.js: A Library for Interactive Virtual Reality Web 3D Graphs. IEEE Virtual Reality (VR), 2016. Research Demo.

[5] Ajjen Joshi, C. Monnier, M. Betke, S. Sclaroff. A Random Forest Approach to Segmenting and Classifying Gestures. IEEE International Conference on Automatic Face and Gesture Recognition (AFGR), 2015. Oral.

## WORK EXPERIENCE

**ADOBE CREATIVE TECHNOLOGIES LAB** | Research Intern
Summer 2016 | Cambridge, MA
- Explored a deep learning solution to automatically generating inbetween frames in hand-drawn 2D animation. Advised by Masha Shugrina

**DISNEY RESEARCH** | Research Intern
Summer 2015 | Cambridge, MA
- Implemented a prototype gesture recognition system based on glove sensor data. Advised by Dr. Hanspeter Pfister, Dr. Soumya Ghosh

**BROWN UNIVERSITY** | Research Intern
Summer 2011 | Providence, RI
- Created interactive multimedia installations using the Kinect. Advised by Dr. Todd Winkler

## TEACHING EXPERIENCE

**ARTIFICIAL INTELLIGENCE** | Boston University CS440
Senior Undergraduate Course on Artificial Intelligence | Spring 2016

**IMAGE AND VIDEO COMPUTING** | Boston University CS585
Graduate Level Course on Computer Vision | Fall 2014

**APPLICATION PROGRAMMING** | Boston University CS108
Introductory Course on Computer Programming | Fall 2013

## AWARDS

2016 NSF PETRA Doctoral Consortium Award
2015 Boston University Outstanding Teaching Fellow
2012 Phi Beta Kappa
2012 Architectural Studies Award for Outstanding Senior
2011 Connecticut College Winthrop Scholar
2010 Recipient of Keck Research Grant