Ajjen Joshi

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ABOUT

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

EDUCATION

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

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

ST. XAVIER'S SCHOOL
High School Diploma
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
Python • C++ • Java • Matlab
HTML/CSS • PHP • MySQL
Processing

DEEP LEARNING
TensorFlow • PyTorch • Caffe

EXTRACURRICULARS

AJJENJOSHI.COM
Visual Creative

SELECTED PUBLICATIONS

[1] Ajjen Joshi, S. Ghosh, M. Betke, S. Sclaroff, H. Pfister. Personalizing Gesture Recognition Using Hierarchical Bayesian Neural Networks. IEEE Computer Vision and Pattern Recognition (CVPR), 2017. Poster

[2] Ajjen Joshi, S. Ghosh, M. Betke, H. Pfister. Hierarchical Bayesian Neural Networks for Personalized Classification. Neural Information Processing Systems (NIPS) Workshop on Bayesian Deep Learning, 2016. Poster

[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, 2017

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