

# Emma Boya Peng

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## Education

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- **Stanford University** **Stanford, CA**  
*M.S. Candidate, Computer Science (AI). GPA: 4.07/4.0* *Sept 2015 - Present*
- **The University of Hong Kong** **Hong Kong**  
*B.Eng. Computer Science. GPA: 3.81/4.3* *Sept 2012 - June 2015*

## Publications

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- **Unsupervised Learning of Long-Term Motion Dynamics for Videos** **CVPR**  
*Zelun Luo\*, Boya Peng\*, De-An Huang, Alexandre Alahi, Li Fei-Fei (\*=equal contribution)* *2017*
- **Towards Viewpoint Invariant 3D Human Pose Estimation** **ECCV**  
*Albert Haque, Boya Peng, Zelun Luo, Alexandre Alahi, Serena Yeung, Li Fei-Fei* *2016*
- **Vision-Based Hand Hygiene Monitoring in Hospital** **NIPS Workshop**  
*Serena Yeung, Alexandre Alahi, Zelun Luo, Boya Peng, Albert Haque, Li Fei-Fei* *2016*

## Experience

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- **Graduate Teaching Assistant** **Stanford, CA**  
*Stanford University, CS231n: Convolutional Neural Networks for Visual Recognition.* *Mar 2017 - Present*
- **Graduate Teaching Assistant** **Stanford, CA**  
*Stanford University, CS224n: Natural Language Processing with Deep Learning.* *Jan 2017 - Mar 2017*
- **Research Assistant** **Stanford, CA**  
*Stanford University, Computer Vision Lab* *Sept 2016 - Dec 2016*
  - Unsupervised Learning of Video Representations: we present an unsupervised representation learning approach that compactly encodes the motion dependencies in videos. We demonstrate the effectiveness of our learned temporal representations on activity classification across multiple modalities.
- **Software Development Intern (NLP)** **Palo Alto, CA**  
*A9.com, Product Search* *June 2016 - Sept 2016*
  - Developed a deep sequence to sequence neural language model to generate relevant queries for Amazon products to improve matching and ranking using TensorFlow.
- **Research Assistant** **Stanford, CA**  
*Stanford University, Computer Vision Lab* *Oct 2015 - June 2016*
  - DeepAnnotator: built an interactive video annotation web interface using React and Flask.
  - Discriminatory Image Captioning: built an image captioning model that generates more descriptive captions by enforcing the alignments between images and generated captions while penalizing misaligned pairs.
  - 3D Human Pose Estimation: proposed an approach that leverages a convolutional and recurrent network with a top-down error feedback mechanism to self-correct previous pose estimates in an end-to-end manner.

## Honors and Awards

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- HKMA Information Technology Management Club Scholarship 2014-2015
- Institute of Electrical and Electronics Engineers (Hong Kong Section) Prize 2013-2014
- Undergraduate Research Fellowship Program 2014
- HKUWW Scholarship (Exchange Studies at University of California, San Diego), 2013-2014
- Ho Fook's Prize in Engineering 2012-2013
- Walter Brown Memorial Prize in Mathematics 2012-2013