

# Si Chen

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## EDUCATION

Ph.D. Student in Computer Science, *President's Fellow* **2016 - Present**

Advisor: Professor James Hays, Research Focus: Computer Vision, Deep Generative Networks  
Georgia Institute of Technology, College of Computing, School of Interactive Computing

Bachelor of Science in Computer Science, Track: Artificial Intelligence, Minor in Music **2012 - 2016**

SEAS Dean's Scholar, University Honors Program

The George Washington University, School of Engineering & Applied Sciences

## RESEARCH EXPERIENCE

**MIT Lincoln Laboratory: Summer Research Program Intern** **June - August 2016**

Group 104, Intelligence & Decision Technologies: Leveraged multi-network deep learning for person re-identification across multiple camera views. Conducted ablation study to better intuit the effects of parameter training, hard negative mining, and feature vs. neighborhood feature difference on Siamese networks.

**Apple: Software Engineering Intern** **May - August 2015**

Special Projects Group: Conducted scene understanding research utilizing depth imaging to create a proof of concept for a novel feature. Explored concepts within clustering, segmentation, and semantic learning.

iContest Finalist: Team's lead programmer at internal hackathon, presented a novel feature to a jury of managers.

**Stanford U.S.-Russia Forum (SURF): Technology & Entrepreneurship Researcher** **2015 - Present**

Analyzed methods of leveraging entrepreneurship as Track 3 diplomacy to stoke international conversations and cooperation. This focused on methods that U.S. and Russian entrepreneurs could use to improve innovation.

**Fellow: NSF Research Experience for Undergraduates, Univ. of Central Florida** **May - August 2014**

Advisors: Dr. Mubarak Shah and Dr. Niels de la Vitoria Lobo, Center for Research in Computer Vision

Improved state of the art tracking performance by 12%: applied a dual-flow convolutional neural network to the fundamental challenge of tracking to address both motion and appearance. This work was presented at the 2015 Association for Computing Machinery Student Research Competition. Paper: [arxiv.org/abs/1512.03993](https://arxiv.org/abs/1512.03993).

## TECHNICAL REPORTS

**Chen, S., Hankatrul, L., and Hays, J.** Deep Auditory Hallucinations: Multi-Modal Music Generation from Actions. *Computer Vision & Pattern Recognition: Women in Computer Vision Workshop* (2017). Received a travel grant from the conference to present a poster at the workshop and participate in

**Chen, S., M. Hahn, and A. Deghan.** Deep Tracking: Visual Tracking Using Deep Convolutional Networks. *Center for Research in Computer Vision, The University of Central Florida* (2016). [arXiv Link: arxiv.org/abs/1512.03993](https://arxiv.org/abs/1512.03993).

## HONORS & ACHIEVEMENTS

**College of Computing:** 1st Year CS PhD  
Research Award 2017

**Global Art Nabi Hackathon:** 2nd Place in an  
international art and AI hackathon 2017

**George Ellowitz Memorial Award** 2015

**Facebook Grace Hopper Scholarship** 2015

**Shenkman Career Development Grant** 2015

**Google Grace Hopper Travel Grant** 2014

## SKILLS

**Programming:** Python, Java, C++, C, Matlab. **Computer Vision:** Theano, OpenCV, Torch, Caffe.