CAMERON M. FABBRI

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WORK EXPERIENCE

Air Force Research Laboratory - Associate Computer Scientist July 2015 - Present
NEXT: Contributed new machine learning algorithms to the NEXT crowdsourcing active learning framework
Tropel: Implemented an active learning detection by example technique to quickly train a multiclass classifier using a Support Vector Machine
RFPred: Developed a deep learning technique to extract radio frequency signal strength using Opencell data

Clarkson University - Research Assistant 2014 - 2015
Deployed a prototype application on Google Glass to control a Turtlebot2 and Husky robot using natural voice commands

Lincoln Financial Group - Software Developer 2013 - 2014
Developed a web application in PHP for a consistent way of creating, managing, and logging users for the MySQL Database
Developed a working prototype for the re-launch of the Lincoln4Benefits website using Java JSP and PL/SQL Procedures

PUBLICATIONS

Fabbri, Cameron, Md Jahidul Islam, and Junaed Sattar. "Enhancing Underwater Imagery using Generative Adversarial Networks." arXiv preprint arXiv:1801.04011 (2018). Accepted for publication ICRA 2018.

Fabbri, Cameron, and Junaed Sattar. "SmartTalk: A Learning-Based Framework for Natural Human-Robot Interaction." Computer and Robot Vision (CRV), 2016 13th Conference on. IEEE, 2016.

EDUCATION

University of Minnesota Expected May 2018
Masters of Computer Science, GPA: 3.7
Concentration: Deep Learning for Computer Vision
Master's Thesis: Image Enhancement using Generative Adversarial Networks

Clarkson University May 2015
Bachelors of Computer Science; Minor: Mathematics

TECHNICAL SKILLS AND INTERESTS

Programming	Python, MATLAB, Java, BASH, LaTeX
Tools	Tensorflow, Scikit, OpenCV, NLTK, MongoDB, MySQL
Research Interests	Deep Learning, Computer Vision, Generative Models, Active Learning

PROJECTS

Adversarial Immitation Learning Present
Developing a Generative Adversarial Network based approach towards controlling a self driving car.
Testing is being done in simulation

Generative Adversarial Networks May 2017 - Present
Implemented various Generative Adversarial Networks publications for image generation:
GAN, LSGAN, EBGAN, WGAN, WGAN-GP

Conditional Wasserstein GANs Fall 2017
cWGANs allows varying amounts of control to the image generation process. This project explored altering attributes on human faces as well as generating galaxies with fixed morphological features

Automatic Image Colorization Spring 2017
Given a black and white photo, this project used a deep adversarial approach towards automatically colorizing it