Connor Greenwell

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Research Interests

- Deep Learning
- Geocalibration
- Mapping with Computer Vision

Education

Ph.D., University of Kentucky, Lexington, KY. **2016–Present**
Computer Science, (expected 2021)

B.S., University of Kentucky, Lexington, KY, 3.0. **2011–2016**
Double Major: Computer Science, Mathematical Science

Experience

Research Assistant, VisCenter, University of Kentucky, Lexington, KY. **2014–Present**

Worked with Dr. Nathan Jacobs on a variety of computer vision research projects relating primarily to camera geocalibration and mapping relationships in face data.

Undergraduate Researcher, ViaLab, University of North Carolina, Charlotte, Charlotte, NC, NSF - Socially Relevant Computing REU. **Summer 2014**

Worked with Dr. Richard Souvenir exploring the geo-dependence of facial features in the GeoFaces dataset.

Software Developer, Happenstock.com, Lexington, KY. **2013–2014**
Developed price scraping, online purchasing and inventory control software.

Publications

2016 Baltenberger, Ryan, Menghua Zhai, Connor Greenwell, Scott Workman, and Nathan Jacobs. "A Fast Method for Estimating Transient Scene Attributes". In: *IEEE Winter Conference on Applications of Computer Vision (WACV)*.

2015 Islam, Mohammad T, Connor Greenwell, Richard Souvenir, and Nathan Jacobs. "Large-Scale Geo-Facial Image Analysis". In: *EURASIP Journal on Image and Video Processing*.

Workman, Scott, Connor Greenwell, Menghua Zhai, Ryan Baltenberger, and Nathan Jacobs. "DeepFocal: A Method for Direct Focal Length Estimation". In: *International Conference on Image Processing (ICIP)*.

2014 Greenwell, Connor, Scott Spurlock, Richard Souvenir, and Nathan Jacobs. "GeoFaceExplorer: Exploring the Geo-Dependence of Facial Attributes". In: *ACM SIGSPATAL International Workshop on Crowdsourced and Volunteered Geographic Information (GEOCROWD)*.

Talks

GeoFaceExplorer, 2014 ACM SIGSPATIAL (GEOCROWD Workshop), Dallas, TX. **Fall 2014**

Image Geo-location from Faces, 2014 CISE REU Regional Conference, Charleston, SC, Talk and Un-poster Session. **Summer 2014**

Discussed ways in which visual clues found in peoples faces can assist in geo-locating images.

Programming Language Shootout: Go, CS Dept. Friday Colloquium: Birds of a Feather, Lexington, KY. **Spring 2014**

Reviewed Go's benefits as a general purpose/server programming language, as well as its concurrency model.

Skills

Machine Learning: TensorFlow, Caffe, Scikit-Learn

Programming Languages: Python, Go, Matlab, R, C/C++, Java

Databases: Postgres, Redis, MySQL, Mongo

GIS Software: GDAL

Process Management: Beanstalk, SLURM

Service

Organizer, CS Dept. Friday Colloquium: Birds of a Feather. **Fall 2014**

Organizer, UK Computer Science Department Awards. **Spring 2014**

Volunteer, IEEE SouteastCon Programming Contest. **Spring 2014**

Volunteer, UK College of Engineering: E-Day. **Spring 2014**

ACM Table: Artificial Intelligence for Playing Board Games; Microcomputers and CS Education

Committee, ad hoc committee: Virtualization for Instruction. **Fall 2013**

Planning the migration from campus computer labs for instruction to virtualized instances accessible over the internet.

Volunteer, UK College of Engineering: E-Day. **Spring 2013**

ACM Table: Physics in Video Games

Organizations

Member, Association for Computing Machinery, UK Student Chapter. **2011–2015**

Treasurer (2012-2013), President (2013-2014), Vice President (2014-2015)

Member, Association for Computing Machinery. **2011–Present**

Member, IEEE. **2012–Present**