Connor Greenwell

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Areas of Expertise

Computer Vision, Deep Learning, Remote Sensing, Modeling Human Dynamics, Multimodal Fusion

1 Education

Ph.D in Computer Science   2016—2022
University of Kentucky   Lexington, KY
Advisor: Nathan Jacobs
Dissertation title: "Image Geo-localization with Cross-Attention"

B.S in Computer Science & Mathematics   2011—2016
University of Kentucky   Lexington, KY

2 Appointments

Senior Research Scientist   2022—Present
Computer Vision Team, Kitware Inc.   Richmond, VA

Graduate Research Assistant   2016—2022
Dept. of Computer Science, University of Kentucky   Lexington, KY

Research and Development Intern   Summer 2021
Computer Vision Team, Kitware Inc.   Richmond, VA

Graduate Student Researcher   Summer 2019
Natl. Security Emerging Tech. Div., Oak Ridge National Laboratory   Oak Ridge, TN
Advanced Short-Term Research Opportunity (ASTRO) Program

Undergraduate Research Assistant   2014—2016
Dept. of Computer Science, University of Kentucky   Lexington, KY

Visiting Undergraduate Research Assistant   Summer 2014
University of North Carolina at Charlotte   Charlotte, NC
NSF Research Experience for Undergraduates Program

3 Publications

(For the most up-to-date list, see my Google Scholar page)

3.1 Journal Publications

Liang, Gongbo, Connor Greenwell, Yu Zhang, Xin Xing, Xiaoqin Wang, Ramakanth Kavuluru, and Nathan Jacobs. "Contrastive cross-modal pre-training: A general strategy for small sample medical imaging". In: *IEEE Journal of Biomedical and Health Informatics*. 2021.

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

4   Funding

Complete Urban to Rural Balanced Streets by Artificial Intelligent Design
Department of Transportation, SBIR (Phase I) $135,000
PI: **Connor Greenwell**   9/2024—3/2025
Co-PI(s)/Co-I(s): Claudio Silva (NYU), Jaclyn Hakes (MJ Engineering)
We support DoT's *Complete Streets AI (CSAI)* initiative by using recent advances in computer vision to build more complete digital representations of the nations transportation infrastructure.

5   Talks

Implicit Land Use Mapping Through Geotagged Imagery   October, 2019.
IEEE Applied Imagery and Pattern Recognition Workshop   Washington, DC

GeoFaceExplorer: Exploring the Geo-Dependence of Facial Attributes   November, 2014.
ACM SIGSPATAL GEOCROWD Workshop   Dallas, TX

6   Professional Service

6.1   Reviewing

IEEE/CVF Conference on Computer Vision and Pattern Recognition   2019—2024

IEEE Winter Conference on Applications of Computer Vision   2019—2024

EarthVision: Large Scale Computer Vision for Remote Sensing Imagery   2021—2023

ISPRS Journal of Photogrammetry and Remote Sensing   2020—2021

AAAI Conference on Artificial Intelligence   2021

British Machine Vision Conference   2020