

# Steven Fernandez, MA, GISP, CCM

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## Experience

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### **Research Assistant Professor, July 2018 – Present**

**School of Public Affairs, University of South Florida, Tampa, FL**

Courses Taught in the School of Public Affairs and the School of Geosciences

URP 6930: GIS for Planners  
URP 6930: GIS II - Urban Spatial Analysis  
URP 6930/EVR 6937: LiDAR and 3D Applications of GIS  
URP 6906: Independent Study - GIS Applications in Planning  
GIS 6307: Socio-Economic GIS  
GIS 3006: Computer Cartography  
GEO 4910: Independent Study - 3D GIS  
GEO 6908: Independent Study - Advanced Socio-Economic GIS

GIS Professional Development

2019 - Hillsborough County Custom GIS Professional Training

STEM for Scholars Program

3D GIS Applications

**\*FAA-Certified Drone Pilot, Small Unmanned Aircraft Systems**

Research Activity

- Lead activities and projects to develop, maintain, analyze and display geographic information systems (GIS) databases and cartographic products, including terrestrial and aerial LiDAR for use in 2D and 3D geospatial analyses and display.
- Responsible for GIS data mining, creation, conversion, reprojection, editing, metadata creation and final map production for all projects.
- Design and author all Cartographic Output, including electronic maps, hard copy maps, Google Earth Maps, ArcGIS Web maps and publication maps.
- Present on projects and program objectives to USF community, industry conferences, state, federal and local agencies.
- Build 3D data and 3D spatial models using Aerial and Terrestrial LiDAR (Laser Scanners) equipment.

**GIS Project Manager (2016-2018)**

2016 - 2018 - Family Study Center, University of South Florida, St Petersburg – Lake Maggiore Shores Initiative  
GIS Data Management and Training

**Research Assistant Professor, July 2016 – July 2018**

**GIS Project Manager, July 2009 – June 2016**

**University of South Florida, Alliance for Integrated Spatial Technologies / Center for Virtualization and Spatial Technologies, Tampa, FL**

**GIS Project Management Contributions:**

2016 - Paris, France - 3D Mapping and Visualizing the Galerie de paléontologie et d'anatomie comparée at the Muséum national d'histoire naturelle

2016 - Corporation to Develop Communities of Tampa, Inc – Quality of Life Report for East Tampa / Sulph4(s)2(it)0.7(y8 0

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2013 – Nation Registered Historic Places (NRHP) - Chinsegut Hill Manor House of Brooksville, Florida - Terrestrial Laser Scanning and Aerial LiDAR Mapping

2013 – Cape Canaveral Air Force Station - 3D Digital Documentation of Historic Structures at CCAFS: A Workflow Methodology for 3D Documentation of Department of Defense Cultural Resources

2013 – National Park Service - Terrestrial and Airborne LiDAR Digital Documentation of Petroglyphs in Three Regions: Hawaii

2013 – National Park Service - Terrestrial and Airborne LiDAR Digital Documentation of Petroglyphs in Three Regions: US Virgin Islands

2013 – Fort Matanzas National Monument (U.S. National Park Service)2.6( 3001 Tw 3.814 043[s ])-aln 0 7 SSU.ida()-1.7(i)-I



2004 – \*City of Melbourne, Consultant on Establishing Ordinances for Restricted Commercial Uses  
2004 – City of Miami Beach, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2004 – City of Oakland Park, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2004 – City of Panama City - Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2004 – City of Stuart - Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2004 – City of Sunrise - Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2004 – City of Tamarac - Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – City of Wilton Manors, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – \*City of Jacksonville, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – City of Fort Lauderdale, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – City of Margate, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – Palm Beach County, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – \*City of Plant City, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – Palm Beach County, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2005 – Town of Southwest Ranches, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses  
2006 – \* \*s 207 (of) Ordinal Use 0 To 4 2 2 7 4 (1 7 (4 - 5 0 0 0 0 0 0 - T y) 1 0 . 2 5 1 . 0 0



- 2006 – Emmet County, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2006 – City of Melvindale, Restricted Use Commercial Property Evaluation
- 2007 – City of Warren, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2008 – Garfield Township, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2008 – Whitelake Township, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2009 – City of Wixom, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

**Minnesota**

- 2006 – City of Duluth, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2006 – City of Minneapolis, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2018 – City of Minneapolis, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

**Mississippi**

- 2012 - 2013 – City of Biloxi, Restricted Use Commercial Property Evaluation
- 2014 – City of Biloxi, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

**New Jersey**

- 2009 – City of Atlantic City, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses
- 2010 – City of Atlantic City, Restricted Use Commercial Property Evaluation

2010 – District 17 (Atlantic City) Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

## **Ohio**

2004 – \*City of Elyria, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2005 - 2006 – City of Twinsburg, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2006 – City of Toledo, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

## **Pennsylvania**

2004 – Borough of Carlisle, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2004/2008 – Town of Armstrong, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2005 – Middlesex Township, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2006 – Lackawanna County, Analysis of Ordinance to Identify Locations for Restricted Commercial Uses

2007 –

## **Expert Witness Appearances**

- Appeared and qualified as an expert witness on the subject of Geographic Information Systems (GIS) and GIS

## **Achievements**

- Certified GIS Professional – GISP, The GIS Certification Institute (GISCI)
- Founding Vice President of the Gamma Theta Upsilon Geography Honor Society at SUNY – Oneonta

## **Presentations**

2011 – Florida State Parks, State Parks Management Meeting, Wekiwa Springs State Park -  
Archaeological Resource GIS Sensitivity Modeling in Florida State Parks

2014 – Cape Canaveral Air Force Station - 3D Digital Documentation of Historic Structures at CCAFS: A  
Workflow Methodology for 3D Documentation of Department of Defense Cultural Resources

2016 – American Planning Association, Florida Conference 2016 - Tampa's Bro Bowl: Contested  
Histories, Emerging Technologies

2017 – Tampa Bay History Center, Tampa Florida - Historical Cartography and the Touchton Map  
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