

# Patrick Smyth

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## Education

M.S. in GIS & Web Map Programming

**University of Wisconsin-Madison**, Madison, WI

Completion Date: 05/2018

M.S. Environmental Humanities

**University of Utah**, Salt Lake City, UT

Thesis: A Narrative Atlas of the Anthropocene

Completion Date: 05/2015

GPA: 3.98

Technical Certification, Applied GIS

**University of Utah**, Salt Lake City, UT

Capstone Project: Development of Monitoring Geodatabase for the U.S Forest Service Geospatial Technology Center

Completion Date: 05/2014

GPA: 3.96

B.A. History, 05/2009

**University of Notre Dame**, Notre Dame, IN

Disciplinary Focus: Environmental History

Graduation Date: 05/2009

GPA: 3.50

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## Professional Experience

### **Web GIS Application Manager, The Trust for Public Land, Santa Fe, NM 06/2016 – Present**

- Responsible for managing all GIS web applications over the entire project life cycle including scoping, design, development, testing, deployment and project management
- Maintain, optimize and manage web infrastructure including ArcGIS Server, Portal and IIS web hosting environments
- Develop and deploy JavaScript-based web applications and decision support tools

### **GIS Analyst, The Trust for Public Land, Santa Fe, NM, 07/2015 - 06/2016**

- Implementation and design of ParkServe, the nation's first spatial database, clearinghouse and interactive web platform for urban parks
- Development of an integrated parks data model using latest in geodesign principles and practices
- Coordination and management of large-scale data collection and deployment of automated storage/processing procedures
- Stand-up, administration and automation of enterprise-level spatial databases in SQL Server and ESRI multiuser editing environments

### **GIS Contractor, The Trust for Public Land, Salt Lake City, UT, 01/2015-05/2015**

- Prepared Conservation Easement Baseline Analyses for multiple properties
- Performed all GIS/GPS (field collection, desktop post-processing, map production) and inventory work for numerous properties, saving TPL the time and expense of contracting for individual components

### **Wilderness GIS and Database Intern, The Bureau of Land Management, Salt Lake City, Utah, 05/2014 – 01/2015**

- Worked extensively with Natural Resource and GIS staff in development of geospatial database and web application to assist in completion of Lands with Wilderness Characteristics inventory process
- Acquired and implemented full-stack web development skills to design front-end user interface for Wilderness Characteristics Inventory web-application
- Served as member of ArcGIS Portal Team tasked with developing online mapping applications for Utah

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## Technical Skills

D3, Leaflet, Mapbox, ArcGIS API for JavaScript, Dojo

Bootstrap, HTML5, CSS, JavaScript

Python Scripting and Automation

Cartographic Workflows in Illustrator and Photoshop

ArcGIS suite (Map, Catalog, Scene), ArcSDE (editing, reconciling and posting of data), ArcServer and Portal

Microsoft SQL Management Studio (building and maintaining relational databases), SQL (querying relational databases)

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## References

Emmalee Dolfi, Manager  
Trust for Public Land  
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Santa Fe, New Mexico 87505  
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[emmalee.dolfi@tpl.org](mailto:emmalee.dolfi@tpl.org)

Dr. Ian Muehlenhaus, Director of GIS and Online Map Programming  
University of Wisconsin-Madison  
Department of Geography  
550 North Park Street  
Madison, Wisconsin 53706  
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Aaron Curtis, Manager  
Branch Chief for Outdoor and Heritage Resources  
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