

Christopher M. McGinty

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AREAS OF SPECIALIZATION

Geographic information systems; remote sensing; rangeland and landscape ecology; vegetation/land cover mapping; geospatial modeling; relational database development; object-based image analysis; predictive modeling; project management; team leadership; agile development.

EDUCATION

Ph.D. Candidate, Ecology, Department of Wildland Resources, Utah State University, Logan, Utah. Expected December 2017.

B.S. Business Management, emphasis on Management, Business Information Systems, and Geographic Information Systems. Department of Management and Human Resources, College of Business, Utah State University, Logan, Utah. 2001

PROFESSIONAL EXPERIENCE

2016 to Present – Program Manager

AmericaView, Inc., Utah State University, Logan, Utah

2010 to Present – Associate Director & Researcher

Remote Sensing/GIS Laboratory, Utah State University, Logan, Utah

2008 to 2013 – Instructor/Lecturer

Introduction to GIS (GEOG 1800), Utah State University, Logan, Utah

2008 to 2010 – Geospatial Market Manager

Juniper Systems, Inc., Logan, Utah

2002 to 2008 – Research Associate

Remote Sensing/GIS Laboratory, Utah State University, Logan, Utah

RESEARCH AND PROJECT TOPICS

- Object-based image analysis for mapping riparian land cover using high-resolution, multi-spectral imagery and LiDAR data
- Global evaluation of biofuel potential from microalgae
- Mapping distribution of invasive species (cheatgrass) in western Utah and Dugway Proving Ground, Utah
- Development of rapid riparian land cover mapping methods using freely-available high-resolution imagery and oblique aerial photography
- Identification of temporal trends in land cover communities following disturbances using remotely sensed imagery

RECENT PUBLICATIONS AND PRESENTATIONS

- **McGinty, C.M.**, and E.I. Leydsman-McGinty. 2015. *Object-based image analysis: Mapping impervious surfaces*. Presented at the Utah Water Data Users Group Meeting, 22 September 2015, Salt Lake City, Utah.
- Moody, J.W., **C.M. McGinty**, and J.C. Quinn. 2014. *Global evaluation of biofuel potential from microalgae*. Proceedings of the National Academy of Sciences in the United States of America 111(23): 8691-8696
- Leydsman-McGinty, E.I., **C.M. McGinty**, and R.D. Ramsey. 2014. *Object-based image analysis: Mapping riparian vegetation and impervious surfaces*. Presented at the Utah Geographic Information Council Annual Conference, 12-16 May 2014, Richfield, Utah.