

Brendan Harmon

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EDUCATION

NORTH CAROLINA STATE UNIVERSITY | PHD IN DESIGN

Co-major: Forestry and Environmental Science

2013 - present |
Raleigh, NC

UNIVERSITY OF OXFORD | MPhil IN GEOGRAPHY

Focus: Biodiversity, Conservation, and Management

2010 - 2012 | Oxford,
UK

HARVARD GRADUATE SCHOOL OF DESIGN | MLA

2005 - 2008 |
Cambridge, MA

SEWANEE: THE UNIVERSITY OF THE SOUTH | BA

Study Abroad: Syracuse University in Florence, Italy
Major: Art History

2001 - 2005 |
Sewanee, TN

TEACHING AND RESEARCH

NCSU DEPARTMENT OF LANDSCAPE ARCHITECTURE

INSTRUCTOR

LAR 582 GIS for Designers & LAR 582 3D Digital Design

2013 - present |
Raleigh, NC

NCSU CENTER FOR GEOSPATIAL ANALYTICS

RESEARCH ASSISTANT

Geovisualization

2013 - present |
Raleigh, NC

REDLANDS INSTITUTE

RESEARCH ASSISTANT

Spatial decision support systems

2010 | Redlands, CA

HARVARD GRADUATE SCHOOL OF DESIGN

3D TEACHING ASSISTANT

Rapid Prototyping Group in the Fabrication Lab

2007 - 2008 |
Cambridge, MA

PROFESSIONAL PRACTICE

EDAW|AECOM | LANDSCAPE DESIGNER

Lead designer for projects including streetscapes, urban plazas, and parks

2008 - 2010 |
Guangzhou, PRC

SELECT PUBLICATIONS

BOOKS

Petrasova, Anna, **Harmon, Brendan A**, Vaclav Petras, and Helena Mitasova (2015). *Tangible Modeling with Open Source GIS*. Springer. isbn: 978-3-319-25775-4.

ARTICLES

Goldsmith, Steven T, Russell S Harmon, W Berry Lyons, **Harmon, Brendan A**, Fred L Ogden, and Christopher B Gardner (2015). "Evaluation of controls on silicate weathering in tropical mountainous rivers: Insights from the Isthmus of Panama". In: *Geology* 43.7, pp. 563–566. issn: 0091-7613.

Petras, Vaclav, Anna Petrasova, **Harmon, Brendan A**, Ross Meentemeyer, and Helena Mitasova (2015). "Integrating Free and Open Source Solutions into Geospatial Science Education". In: *ISPRS International Journal of Geo-Information* 4.2, pp. 942–956. issn: 2220-9964.

Petrasova, Anna, **Harmon, Brendan A**, Vaclav Petras, and Helena Mitasova (2014). "GIS-based environmental modeling with tangible interaction and dynamic visualization". In: ed. by D.P. Ames and N. Quinn.

Harmon, Brendan A and Heather Viles (2013). "Beyond geomorphosites: trade-offs, optimization, and networking in heritage landscapes". In: *Environment Systems and Decisions* 33.2, pp. 272–285. issn: 2194-5403.

Tateosian, Laura, Helena Mitasova, **Harmon, Brendan A**, Brent Fogleman, Katherine Weaver, and Russell S Harmon (2010). "TanGeoMS: tangible geospatial modeling system." In: *IEEE transactions on visualization and computer graphics* 16.6, pp. 1605–12. issn: 1077-2626.

BOOK CHAPTERS

Harmon, Brendan A, William D Goran, and Russell S Harmon (2014). "Sustainable Cities and Military Installations in the Twenty-First Century: Towards Sustainable Military Installations and Adaptable Cities". In: *Sustainable Cities and Military Installations*. Ed. by Igor Linkov. NATO Science for Peace and Security Series C: Environmental Security. Dordrecht: Springer Netherlands. Chap. 2, pp. 21–47. isbn: 978-94-007-7160-4.

Harmon, Brendan A, Anna Petrasova, Vaclav Petras, and Helena Mitasova (in press). "Computational Landscape Architecture: Procedural, Tangible, and Open Landscapes". In: *Innovations in Landscape Architecture*. Ed. by Jonathan R Anderson and Daniel Ortega. Routledge.

CONFERENCE PROCEEDINGS

Harmon, Brendan A (2016). "Embodied Spatial Thinking in Tangible Computing". In: *TEI '16: Proceedings of the Tenth International Conference on Tangible, Embedded, and Embodied Interaction*. Eindhoven, Netherlands: ACM Press. isbn: 978-1-4503-3582-9.

Harmon, Brendan A, Anna Petrasova, Vaclav Petras, Helena Mitasova, and Ross K Meentemeyer (2016). "Tangible interaction for GIS". In: *FOSS4G NA 2016*. Raleigh, NC.

— (accepted). "Tangible Landscape: cognitively grasping the flow of water". In: *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. Prague: International Society of Photogrammetry and Remote Sensing.