

Brendan Harmon

brendan.harmon@gmail.com | 919.622.8414

<http://tangible-landscape.github.io/>

<http://baharmon.github.io/>

EDUCATION

NORTH CAROLINA STATE UNIVERSITY | PhD IN DESIGN

Co-major: Forestry and Environmental Science

2013 - 2017

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

Major: Art History

2001 - 2005

Sewanee, TN

TEACHING AND RESEARCH

LOUISIANA STATE UNIVERSITY | ASSISTANT PROFESSOR

ROBERT REICH SCHOOL OF LANDSCAPE ARCHITECTURE

2017 - present

Baton Rouge, LA

NORTH CAROLINA STATE UNIVERSITY | POSTDOCTORAL FELLOW

CENTER FOR GEOSPATIAL ANALYTICS

2017

Raleigh, NC

NORTH CAROLINA STATE UNIVERSITY | INSTRUCTOR

DEPARTMENT OF LANDSCAPE ARCHITECTURE

2013 - 2015

Raleigh, NC

HARVARD GRADUATE SCHOOL OF DESIGN | 3D TEACHING ASSISTANT

FABRICATION LAB | Rapid Prototyping Group

2007 - 2008

Cambridge, MA

PROFESSIONAL PRACTICE

EDAW|AECOM | LANDSCAPE DESIGNER

2008 - 2009

Guangzhou

LINKS

Website: <http://tangible-landscape.github.io/>

GitHub: <https://github.com/baharmon>

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.

PAPERS

Tonini, Francesco, Douglas Shoemaker, Anna Petrasova, **Harmon, Brendan A**, Vaclav Petras, Richard Cobb, Helena Mitasova, and Ross Meentemeyer (2017). "Tangible geospatial modeling for collaborative solutions to invasive species management". In: *Environmental Modelling & Software*. Accepted for publication.

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. url: <http://dx.doi.org/10.1145/2839462.2854103>.

Harmon, Brendan A, Anna Petrasova, Vaclav Petras, Helena Mitasova, and Ross K Meentemeyer (2016c). "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. url: <http://dx.doi.org/10.5194/isprs-archives-XLI-B2-647-2016>.

Harmon, Russell S, Gerhard Wörner, Steven T Goldsmith, **Harmon, Brendan A**, Christopher B Gardner, W Berry Lyons, Fred L Ogden, Michael J Pribil, David T Long, Zoltán Kern, and István Fórizs (2016). "Linking silicate weathering to riverine geochemistry – A case study from a mountainous tropical setting in west-central Panama". In: *Geological Society of America Bulletin*. issn: 0016-7606. url: <http://dx.doi.org/10.1130/B31388.1>.

Petrasova, Anna, Vaclav Petras, Derek Van Berkel, **Harmon, Brendan A**, Helena Mitasova, and Ross K Meentemeyer (2016). "Open source approach to urban growth simulation". In: *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. Prague: International Society of Photogrammetry and Remote Sensing. url: <http://dx.doi.org/10.5194/isprs-archives-XLI-B7-953-2016>.

Tabrizian, Payam, Anna Petrasova, **Harmon, Brendan A**, Vaclav Petras, Helena Mitasova, and Ross K Meentemeyer (2016). "Immersive Tangible Geospatial Modeling". In: *Proceedings of the 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*. SIGSPATIAL'16. New York, NY, USA: ACM.

Goldsmith, Steven T, W Berry Lyons, Russell S Harmon, **Harmon, Brendan A**, Anne E Carey, and Gregg T McElwee (2015). "Organic carbon concentrations and transport in small mountain rivers, Panama". In: *Applied Geochemistry* 63, pp. 540–549. issn: 08832927. url: <http://dx.doi.org/10.1016/j.apgeochem.2015.04.014>.

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. url: <http://dx.doi.org/10.1130/G36082.1>.

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. url: <http://dx.doi.org/10.3390/ijgi4020942>.

Petrasova, Anna, **Harmon, Brendan A**, Vaclav Petras, and Helena Mitasova (2014). "GIS-based environmental modeling with tangible interaction and dynamic visualization". In: *Proceedings of the 7th International Congress*

on *Environmental Modelling and Software*. Ed. by D.P. Ames and N. Quinn. url: http://www.iemss.org/sites/iemss2014/papers/iemss2014_submission_131.pdf.

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. url: <http://dx.doi.org/10.1007/s10669-013-9448-3>.

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. url: <http://dx.doi.org/10.1109/TVCG.2010.202>.

BOOK CHAPTERS

Harmon, Brendan A, Anna Petrasova, Vaclav Petras, and Helena Mitasova (2016). "Computational Landscape Architecture: Procedural, Tangible, and Open Landscapes". In: *Innovations in Landscape Architecture*. Ed. by Jonathan R Anderson and Daniel Ortega. Routledge.

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. url: <http://dx.doi.org/10.1007/978-94-007-7161-1>.

SELECT PRESENTATIONS

Harmon, Brendan A and Petrasova, Anna, Payam Tabrizian, Vaclav Petras, and Helena Mitasova (2017). "Tangibly smart: an interactive watershed in your hands". World Bank Watershed Days. Washington, D.C. url: <https://ncsu-geoforall-lab.github.io/tangible-landscape-talk/worldbank2017.html>.

Harmon, Brendan A, Anna Petrasova, Vaclav Petras, Helena Mitasova, and Ross K Meentemeyer (2016a). "Creative spatial thinking with Tangible Landscape". American Association of Geographers Annual Meeting 2016. San Francisco, CA. url: <http://baharmon.github.io/aag-2016/>.

— (2016b). "Tangible geographies". Royal Geographical Society Annual International Conference 2016. London. url: <https://baharmon.github.io/rgs-2016/>.

Petrasova, Anna, Vaclav Petras, **Harmon, Brendan A**, and Helena Mitasova (2016). "Using GRASS GIS through Python and tangible interfaces". FOSS4G NA 2016. Raleigh, NC. url: [https://grasswiki.osgeo.org/wiki/Using_GRASS_GIS_through_Python_and_tangible_interfaces_\(workshop_at_FOSS4G_NA_2016\)](https://grasswiki.osgeo.org/wiki/Using_GRASS_GIS_through_Python_and_tangible_interfaces_(workshop_at_FOSS4G_NA_2016)).

Harmon, Brendan A, Helena Mitasova, and Anna Petrasova (2014). "Tangible geospatial modeling for landscape architects". 2014 Geodesign Summit. Redlands, California. url: <http://video.esri.com/watch/3170/tangible-geospatial-modeling-for-landscape-architects>.