

# Brendan Harmon

<http://baharmon.github.io/>  
brendan.harmon@gmail.com | 919.622.8414

---

## 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.

---

### PEER REVIEWED PAPERS & CONFERENCE PROCEEDINGS

**Harmon, Brendan A**, Anna Petrasova, Vaclav Petras, Helena Mitasova, Ross K Meentemeyer, Gene Bressler, and Art Rice (2017). "Cognitively Grasping Topography with Tangible Landscape". In: *ACM Transactions on Computer-Human Interaction*. 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.

**Harmon, Brendan A**, Anna Petrasova, Vaclav Petras, Helena Mitasova, and Ross K Meentemeyer (2016d). "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.

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.

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.

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.

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: *Proceedings of the 7th International Congress on Environmental Modelling and Software*. 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**, 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.

---

## SELECT PRESENTATIONS

**Harmon, Brendan A**, Anna Petrasova, and Vaclav Petras (2016). "Serious Gaming with Tangible Landscape". NCSU Coffee & Viz. Raleigh, NC.

**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.

— (2016b). "Tangible geographies". Royal Geographical Society Annual International Conference 2016. London.

— (2016c). "Tangible interaction for GIS". FOSS4G NA 2016. Raleigh, NC.

Petrasova, Anna, Vaclav Petras, **Harmon, Brendan A**, and Helena Mitasova (2016). "Using GRASS GIS through Python and tangible interfaces". FOSS4G NA 2016. Raleigh, NC.

**Harmon, Brendan A**, Helena Mitasova, and Anna Petrasova (2014). "Tangible geospatial modeling for landscape architects". 2014 Geodesign Summit. Redlands, California.

Petrasova, Anna, **Harmon, Brendan A**, and Helena Mitasova (2014). "GIS-based modeling with tangible interaction." FOSS4G 2014.