

# Nathan Burtch

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Environmental Planning  
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## EDUCATION

PhD, present. Geographical Sciences, University of Maryland, College Park  
Degree conferred: August 2017  
Title: “The voice of duty is the voice of God”: The spatial manifestation of the  
religious duty of health in Seventh-day Adventism  
Advisor: Dr. Martha Geores

MUP, 2006. Urban Planning, University at Buffalo

B.S., 2004. Geography and Comparative Religion, Western Michigan University

## EMPLOYMENT

Lecturer, 2014 – present: Department of Geography and Environmental Planning, Towson  
University; Towson, MD

Teaching assistant, 2010 – 2014: Department of Geography, University of Maryland; College  
Park, MD

GIS Specialist, 2006 – 2010: Finger Lakes Institute, Hobart and William Smith Colleges;  
Geneva, NY

GIS Intern, 2005 – 2006: Niagara International Transportation Technology Coalition  
(NITTEC); Buffalo, NY

Graduate Assistant, 2004 – 2006: Department of Urban and Regional Planning, University at  
Buffalo; Buffalo, NY

Student GIS Coordinator, 2003 – 2004: Western Michigan University Landscape Services;  
Kalamazoo, MI

## SCHOLARSHIP

### Book Chapter

Fitzgerald, D. G., B. Zhu, E. L. Mills, L. G. Rudstam, S. B. Hoskins, D. E. Haddad, **N. R. Burtch**, J. T. Coleman and D. L. Crabtree. 2016. Dynamics of aquatic vegetation in Oneida Lake, 1915-2005: a response to ecosystem change. In *Oneida Lake: Long-term dynamics of a managed ecosystem and its fisheries*, eds. L. G. Rudstam, E. L. Mills, J. R. Jackson and D. J. Stewart. Bethesda, MD: American Fisheries Society.

### Papers presented

- Duty and space: Health as a religious duty in Seventh-day Adventism. Association of American Geographers Annual Meeting, April 2017 (**Chaired session**)
- The manifestation of sacred duty: The therapeutic landscape of Seventh-day Adventist hospitals. Association of American Geographers Annual Meeting, April 2015.
- Sacred space and health in Seventh-day Adventism. Race, Ethnicity, and Place VII, October 2014.
- GIS model to predict submerged aquatic vegetation growth in Oneida Lake. Finger Lakes Research Conference, December 2009.
- GIS model to predict submerged aquatic vegetation grown in Oneida Lake. GIS/SIG Annual Spatial/Digital Mapping Conference, April 2009.
- Geographic Information Systems for libraries. New York Library Association Conference, October 2007.

### Maps and Figures in Peer Reviewed Journals

- Burtch, N.** 2015. Map of Oneida Lake, New York, showing the study area in Big Bay [map]. In: Zhu, B., J. Kopco and L. G. Rudstam. Effects of invasive European frogbit and its two physical control methods on macroinvertebrates. *Freshwater Science* 34, no. 2: 497-507.
- Burtch, N.** 2014. Cayuga Lake and submerged macrophyte sampling sites (shown as black dots) at the northern and southern ends of Cayuga Lake [map]. In: Zhu, B. and S.E. Georgian. Interactions between invasive Eurasian watermilfoil and native water stargrass in Cayuga Lake, NY, USA. *Journal of Plant Ecology* 7: 499-508.
- Beutner, R and **N. Burtch.** 2012. The approximate location of lake and river sites surveyed for the presence of *Hemimysis anomala* [map]. In: Brown M., R. Morse, and K. O'Neill. Spatial, seasonal, and diel distribution patterns of *Hemimysis anomala* in New York State's Finger Lakes *Journal of Great Lakes Research* 38: 19-24.
- Burtch, N.** 2008. Bathymetric map of Owasco Lake (New York, USA) with 10 m depth contours [map]. In: Brown, M. and M. Balk. The potential link between lake productivity and the invasive zooplankter *Cercopagis pengoi* in Owasco Lake (New York, USA). *Aquatic Invasions* 3(1):28-34.

### Maps and Figures in Books

- Burtch, N.** (forthcoming). Italy in 1943 [map]. In: Klein, S. Italy's Jews from emancipation to fascism. Cambridge University Press.
- Burtch, N.** 2017. Europe on the eve of World War I [map]. In: Rozenblit, M. L. and J. Karp, eds. *World War I and the Jews: Conflict and transformation in Europe, the Middle East, and America*. Berghahn Books.
- Burtch, N.** 2017. Europe after World War I [map]. In: Rozenblit, M. L. and J. Karp, eds. *World War I and the Jews: Conflict and transformation in Europe, the Middle East, and America*. Berghahn Books.
- Burtch, N.** 2017. Austria-Hungary, 1910 [map]. In: Rozenblit, M. L. and J. Karp, eds. *World War I and the Jews: Conflict and transformation in Europe, the Middle East, and America*. Berghahn Books.

- Burtch, N.** 2017. The eastern front during World War I [map]. In: Rozenblit, M. L. and J. Karp, eds. *World War I and the Jews: Conflict and transformation in Europe, the Middle East, and America*. Berghahn Books.
- Burtch, N.** 2017. Ottoman Empire, 1914 [map]. In: Rozenblit, M. L. and J. Karp, eds. *World War I and the Jews: Conflict and transformation in Europe, the Middle East, and America*. Berghahn Books.
- Burtch, N.** 2009. Shaded relief map of New York State showing the Adirondack Park boundary in white [map]. In: Ryan, J. M. *Adirondack wildlife: a field guide*. UPNE, 2009.
- Burtch, N.** 2009. Elevation map of the Adirondack Park [map]. In: Ryan, J. M. *Adirondack wildlife: a field guide*. UPNE.
- Burtch, N.** 2009. Map of the Adirondack Park showing the patchwork of public and private lands [map]. In: Ryan, J. M. *Adirondack wildlife: a field guide*. UPNE.
- Burtch, N.** 2009. Map of the Adirondack Park showing the five major watersheds [map]. In: Ryan, J. M. *Adirondack wildlife: a field guide*. UPNE.

### Maps and Figures in Non-peer Reviewed Publications

- Burtch, N.** 2009. Honeoye Lake stream sample points [map]. In: Zhu, B. An investigation of external nutrient loading from eight streams into Honeoye Lake. Prepared for Honeoye Lake Watershed Task Force and Ontario County Soil and Water Conservation District. Hosted by the Finger Lakes Institute, Hobart and William Smith Colleges. [http://www.hws.edu/fli/pdf/honeoye\\_research.pdf](http://www.hws.edu/fli/pdf/honeoye_research.pdf).
- Burtch, N.** and J. Soday. 2005. Various maps prepared for the Asylum Lake archeological assessment [10 maps]. In: Becker, R. J. and M. S. Nassaney. An archeological assessment of the Asylum Lake/Colony Farm Orchard property in Kalamazoo, Michigan. Department of Anthropology, Western Michigan University. [http://wmich.edu/asylumlake/history/archeology\\_report.html](http://wmich.edu/asylumlake/history/archeology_report.html)

### Manuscripts in preparation

- Burtch, N.** and M. Geores. The filter of space: A model of how religious duty spatially manifests.
- Burtch, N.** “The right arm of the message”: Ellen White and the religious duty of health in Seventh-day Adventism.
- Burtch, N.** The duty and the light: A therapeutic dutyscape of Seventh-day Adventist hospitals.
- Zhu, B., D. Smith, A. Benquista, M. L. Yu, A. Partlow, B. Kadapuram, and **N. Burtch**. Effects of the new bridge construction on an urban river water quality.
- Heslin, J. L., R. C. Lingo, R. C. Klara, T. J. Brand, T. W. Moore, **N. R. Burtch**. Socio-economic inequity to Baltimore’s heat island.

### AWARDS

- 2003 – 2004 Presidential Scholar for the Comparative Religion Department, Western Michigan University
- 2001 – 2002 Presidential Scholar for the Geography Department, Western Michigan University

2000 – 2001 Geography Department Undergraduate Scholarship

## **TEACHING**

### **Courses as Main Instructor**

Towson University (2014 – present)

MTRO 101 – Introduction to Metropolitan Studies (Spring 2017 [2 sections], Fall 2016 [2 sections], Spring 2016 [2 sections], Fall 2015 [2 sections])  
 GEOG 251 – Introduction to Urban Planning (Spring 2017, Fall 2016 [2 sections], Spring 2016 [2 sections])  
 GEOG 416/631 – Principles of Remote Sensing and Digital Image Processing (Spring 2017)  
 GEOG 109 – Introduction to Human Geography (Fall 2015 [2 sections], Spring 2015 [2 sections], Fall 2014 [3 sections])  
 GEOG 375/516 – Quantitative Methods in Geography (Spring 2015)  
 GEOG 323/505 – Cartography and Graphics I (Spring 2015, Fall 2014)

University of Maryland (2010 – 2015)

GEOG 306 - Introduction to Quantitative Methods for Geographic and Environmental Sciences (Winter 2017, Summer 2015, Summer 2014)  
 GEOG 373 – Introduction to Geographic Information Systems (Winter 2013, Summer 2012, Winter 2012)  
 GEOG 579 – Introduction to Geographic Information Systems (Summer 2012; MPSGIS Program)

Hobart and William Smith Colleges (2006 – 2010)

ENV 450 – Independent Study, Fundamentals of GIS (Spring 2010)  
 Reader's College – How to Lie With Maps (Spring 2010, 2009)

### **Courses as Teaching Assistant**

University of Maryland, College Park (2010 – 2014)

GEOG 306 - Introduction to Quantitative Methods for the Geographic and Environmental Sciences (Spring 2013, 2014)  
 GEOG 475 – Computer Cartography (Fall 2013, 2012)  
 GEOG 797 – Capstone Project (Spring 2012; MPSGIS Program)  
 GEOG 676 – Programming for GIS (Winter 2011/2012, 2010/2011; MPSGIS Program)  
 GEOG 606 – Quantitative Spatial Analysis (Fall 2011, 2010; MPSGIS Program)  
 GEOG 373 – Introduction to Geographic Information Systems (Summer 2011, Winter 2011)  
 GEOG 788P – Project Management (Summer 2011; MPSGIS Program)  
 GEOG 170 – Maps and Map Use (Spring 2011)

GEOG 472 – Remote Sensing: Digital Image Processing and Analysis (Spring 2011;  
MPSGIS Program)

University at Buffalo (2004 – 2006)

PD 512 – Research Methods in Planning (Spring 2006)

PD 569 – GIS Applications (Fall 2005)

## **PRESENTATIONS**

### **Campus and departmental talks**

The geography of land use. Finger Lakes Institute Lecture Series, March 2011.

The geography of Finger Lakes history. Finger Lakes Institute Lecture Series, February 2010.

The geography of everything: Can you really trust that map? Finger Lakes Institute Lecture Series, November 2009.

### **Teacher workshops and community presentations**

So I have a GPS unit part 2: How to get your data into Google Earth. Finger Lakes Institute Teacher Workshop, November 2009.

Using a GPS unit to learn more about nature. Finger Lakes Institute Teacher Workshop, September 2009.

So I have a GPS unit... now what do I do with it? Finger Lakes Institute Teacher Conference, September, 2009.

## **SERVICE**

Ordinary Board Member, Geography of Religions and Belief Systems (GORABS), Specialty Group of the AAG. Two year term from 2017 – 2019.

Job/Internship Committee, 2016-present: Department of Geography and Environmental Planning, Towson University.

SWOT Committee, 2016: Department of Geography and Environmental Planning, Towson University.

Member, Alumni Board, 2014-present: Department of Comparative Religion, Western Michigan University.

President, Graduate Student Organization, 2012-2013: Department of Geography, University of Maryland.

Graduate Student Government Assembly Representative, 2011-2012: Department of Geography, University of Maryland.

Orientation Committee, 2011: Department of Geography, University of Maryland

## **AFFILIATIONS**

American Academy of Religion (AAR)

American Association of Geographers (AAG)

American Geographical Society (AGS)

Society for the Scientific Study of Religion (SSSR)