

# BEN RYDAL SHAPIRO

Space, Learning & Mobility Lab  
at Vanderbilt University  
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[ben@benrydal.com](mailto:ben@benrydal.com)

## AREAS OF SPECIALIZATION

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Learning Sciences, Information Visualization, Architecture, Human-Computer Interaction

## EDUCATION

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- 2018 (exp.) **Ph.D. Learning Sciences/Learning, Teaching & Diversity**, *Vanderbilt University*  
Dissertation: Interaction Geography & the Learning Sciences  
Committee: Rogers Hall (Chair), Leona Schauble, Debbie Rowe, Andy Hostetler,  
David Owens (Engineering), Doug Fisher (Computer Science)
- 2013 **M.Ed. International Education Policy & Management**, *Vanderbilt University*  
Practicum: Architecture & Learning at the University of Melbourne's School of  
Architecture & Design, Melbourne, Australia
- 2009 **B.A. Architectural Study/History of Art & Architecture**, *Middlebury College*  
Architecture Program at Danish Institute for Study Abroad, Copenhagen, Denmark

## PUBLICATIONS

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- Shapiro, B.R., Hall, R. and Owens, D. (2017). Developing & Using Interaction Geography in a Museum. *International Journal of Computer-Supported Collaborative Learning*, 12(4), 377-399.
- Shapiro, B.R., and Hall, R. (2017). Making Engagement Visible: The Use of Mondrian Transcripts in a Museum. In *CSCL '17: Proceedings of the 12th International Conference for Computer Supported Collaborative Learning*, (Vol. 1, pp. 33-40). Philadelphia, PA: International Society of the Learning Sciences. **[Award for Best Design Paper]**
- Shapiro, B.R. (2017). Using Space Time Visualization in Learning Environment Design. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '17)*. ACM, Denver, CO, USA. 178-183. **[Award for 3<sup>rd</sup> place in ACM CHI Student Research Competition]**
- Shapiro, B.R. & Pearman II, Francis A. (2017). Using the Interaction Geography Slicer to Visualize New York City Stop & Frisk. In *Proceedings of the IEEE VIS 2017 Arts Program, VISAP '17*. Phoenix, AZ.

Shapiro, B.R., and Hall, R. (2017). Interaction Geography in a Museum. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems* (CHI EA '17). ACM, Denver, CO, USA. 2076-2083.

Shapiro, B.R., and Hall, R. (2015). Engagement within Interest Driven Learning Environments. In *Proceedings of the 2<sup>nd</sup> annual Terrains Symposium, Mapping learning environment evaluation across the design and education landscape: Towards the evidence-based design of educational facilities* (pp. 80-86). Melbourne School of Design, University of Melbourne.

Harris, A.H., Shapiro, B.R., & Garwood, J.D. (2015). Space: Elementary and Secondary Classrooms. In Scarlett, W.G. (Ed.) *Classroom Management: An A-Z Guide*. Thousand Oaks, CA: Sage Publications.

### **In Press:**

Shapiro, B.R. (in press). Exploring the use of Interaction Geography in Post-Occupancy Evaluation. In *Proceedings of the 1<sup>st</sup> annual Transitions Symposium*. The University of Melbourne's Innovative Learning Environments and Teacher Change Project, 2016-2019. Melbourne School of Design, University of Melbourne.

Hall, R., Shapiro, B.R. & Space, Learning and Mobility (SLaM) Lab. (in press). Back in the Day: A Walking Tour of Historic Jefferson Street. J. Fraser, L. Williams & A. Thurber (Eds.), *A People's Guide to Nashville*. Oakland, CA: University of California Press.

### **In Progress:**

Shapiro, B.R. (in progress). Interaction Geography & the Learning Sciences. [*Journal*], [volume (issue), pp.]. Type: *National Refereed Journal Article*

Shapiro, B.R. & Hall, R. (in progress). Visitor Curation in a Museum. [*Journal*], [volume (issue), pp.]. Type: *National Refereed Journal Article*

Hostetler, A. L., & Shapiro, B.R. (in progress). All the right moves: Social studies pre-service teachers spatial thinking and mobility in the city. [*Journal*], [volume (issue), pp.]. Type: *National Refereed Journal Article*

## REFEREED CONFERENCE PRESENTATIONS

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Hall, R., Shapiro, B.R. and the Space, Learning & Mobility Lab (2017). Bridging Learning in Urban Extended Spaces. Presentation at NSF workshop, "Building Capacity for New Genre of Learning on the Move (LoM)" at Vanderbilt University.

Shapiro, B.R. (2017). Interaction Geography & Learning. Symposium paper at the Annual Meetings of the Jean Piaget Society, San Francisco, CA.

Shapiro, B.R., and Hall, R. (2017) Developing & Using Mondrian Transcripts in a Museum. Symposium paper at the Annual Meetings of the Jean Piaget Society, San Francisco, CA.

Shapiro, B.R., and Hall, R. (2016, November). Mondrian Transcripts. Presentation at Spencer Foundation workshop, “Learning how to look and listen: Building capacity for video-based transcription and analysis in social and educational research” at Arizona State University (F. Erickson and A. Artiles).

Shapiro, B.R., and Hall, R. (2016, April). Engagement and Personal Curation in Interest Driven Learning Environments. Symposium paper at the Annual Meetings of the American Educational Research Association, Washington, D.C.

Shapiro, B.R., and Hall, R. (2016, April). The Micro-Geography of Engagement, Personal Curation and Learning on the Move. Symposium paper at the Annual Meetings of the American Educational Research Association, Washington, D.C.

Shapiro, B.R., and Hall, R. (2016) How Young Children Manage Their Families as Interpretive Resources in Cultural Heritage Museums. Symposium paper at the Annual Meetings of the Jean Piaget Society, Chicago, IL.

Shapiro, B.R. (2015). Mapping Engagement in Museum Environments. Symposium presentation, Visualizing Digital Humanities: Spatial Analysis and Representations at the annual HASTAC Conference. Michigan State University, East Lansing, MI.

Shapiro, B.R. (2015). Engagement and Personal Curation in a Museum. Poster Presentation at Social Policy and Research in Cognition and Mathematics Education (SPaRCME). University of California, Berkeley, Berkeley, CA.

Shapiro, B.R., and Hall, R. Assembling American Roots Music: Visitors’ Micro-Curation and Engagement in Museum Gallery Spaces Presentation at Association of American Geographers Conference (AAG). Chicago, IL.

Shapiro, B.R. (2013). The Socio-Spatial Resources Required for Online Courses. Poster presentation at the annual Coursera Partners Conference. University of Pennsylvania, Philadelphia, Pennsylvania.

## INVITED TALKS

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Shapiro, B.R. (June, 2018). Personal Curation in a Museum. Presentation at Symposium for Cultural Heritage at Scale: Crowd-Sourcing with a Human Face. Vanderbilt University.

Shapiro, B.R. (2017). New Approaches to Evaluating Informal Learning. Presentation for Vanderbilt Learning & Design Course: Designing for Contexts. Education 6080-01.

- Shapiro, B.R. (2016). Using Processing and the Arts in Museum Research and Design. Presentation for Vanderbilt New Media Course: Telepresence Technology, Digital Media, and the Posthuman Vision. English 3726 (259) New Media.
- Shapiro, B.R. (2015). Mondrian Transcripts of Engagement. Presentation at the Public Scholars Symposium. The Curb Center, Vanderbilt University. Nashville, TN.
- Shapiro, B.R. (2014). Bridging Spaces for Learning. Presentation at TEDx Furman University. Greenville, South Carolina. Link: [www.youtube.com/watch?v=hF9oWbR4HPo&t=78s](http://www.youtube.com/watch?v=hF9oWbR4HPo&t=78s)

## RESEARCH & DESIGN EXPERIENCE

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- 2016-Present      **NSF Cyberlearning EXP Grant (#1623690), *Research Assistant***  
 Bridging Learning in Urban Extended Spaces (BLUES) 2.0. Rogers Hall, Andy Hostetler, David Owens and Douglas Fisher (Co-PIs) of the Space, Learning & Mobility Lab. Vanderbilt University, Nashville, TN.
- 2013-2016        **NSF Cyberlearning EAGER Grant (#1341882), *Research Assistant***  
 Bridging Learning in Urban Extended Spaces (BLUES). Rogers Hall and Kevin Leander (Co-PIs) of The Space, Learning & Mobility Lab at Vanderbilt University. Vanderbilt University, Nashville, TN.
- 2014 (Summer)    **Center for the Study of Race & Equity in Education, *Research Fellow***  
 Conducted research and writing on culturally relevant space for Dr. Shaun Harper, University of Pennsylvania, Philadelphia, PA.
- 2011-2013        **Design for America Vanderbilt Chapter, *Co-Founder***  
 Co-founded Vanderbilt's Design for America Chapter, part of a network of student led design studios creating local and social impact through human-centered design. Vanderbilt University, Nashville, TN.  
[www.designforamerica.com](http://www.designforamerica.com)
- 2012 (Summer)    **University of Melbourne's School of Architecture, *M.Ed. Practicum***  
 Conducted research and facilitated collaboration between Vanderbilt University and the Smart Green Schools Australian Research Council (ARC) Linkage Project Team following Australia's \$16 billion Building Education Revolution. University of Melbourne, Melbourne, Australia.
- 2012-2013        **Vanderbilt University International Office, *Graduate Assistant***  
 Assisted in managing grant and research programs to support Vanderbilt's institutional partnerships abroad. Vanderbilt University, Nashville, TN.

## TEACHING EXPERIENCE

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- 2016 (Fall)            **Human Geography (SSED 3260/6240)**, *Teaching Assistant* with Dr. Andy Hostetler, Professor of the Practice of Social Studies, Vanderbilt University, Nashville, TN.
- 2016 (Spring)        **Learning In and Out of Schools (EDUC 7100)**, *Teaching Assistant* with Dr. Rogers Hall, Professor Department of Teaching & Learning, Vanderbilt University, Nashville, TN.
- 2015 (Summer)       **Stories Untold: Frontiers in Human Geography**, *Co-Instructor* Vanderbilt Summer Academy Session II, Vanderbilt University, Nashville, TN.
- 2014 (Spring)        **Leading Innovation in Arts and Culture**, *Teaching Assistant* with Dr. David Owens, Professor for the Practice of Management & Innovation, Vanderbilt University, Nashville, TN.  
Coursera Massive Open Online Learning Course (MOOC):  
[www.coursera.org/learn/arts-culture-innovation](http://www.coursera.org/learn/arts-culture-innovation)
- 2013-2014            **Leading Strategic Innovation in Organizations**, *Teaching Assistant* with Dr. David Owens, Professor for the Practice of Management & Innovation, Vanderbilt University, Nashville, TN.  
Coursera Massive Open Online Learning Course (MOOC):  
[www.youtube.com/watch?v=M3hTB0S1Gts](http://www.youtube.com/watch?v=M3hTB0S1Gts)
- 2005-2010            **Camp Greylock**, *Counselor, Group Head & Asst. Basketball Director* Beckett, MA.

## AWARDS & HONORS

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*1<sup>st</sup> place for digital innovation by graduate student*, Vanderbilt Institute for Digital Learning  
*1<sup>st</sup> place Wild Bunch Data Visualization Competition*, Vanderbilt University  
*3<sup>rd</sup> place CHI student research competition*, (CHI '17). ACM, Denver, CO  
*Best Design Paper*, International Conference of Computer-Supported Collaborative Learning  
*Humanities, Arts, Science, and Technology Alliance and Collaboratory (HASTAC) Scholar*  
*Peabody Dean's Fellowship*, Vanderbilt University  
*Peabody Graduate Honor Scholarship*, Vanderbilt University

## GRANTS

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Vanderbilt University's Curb Center for Art, Enterprise and Public Policy Innovation Grant: Design for America, \$1,000 (2013).

Vanderbilt International Office (VIO) Grant in collaboration with the University of Melbourne's School of Architecture: Spatial Design and Learning, \$8,500 (2012).

## SELECTED PRESS

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Students Recognized for Eye Catching Data Visualizations, Vanderbilt News, April 20<sup>th</sup> 2017:  
[news.vanderbilt.edu/2017/04/20/students-recognized-for-eye-catching-data-visualizations/](http://news.vanderbilt.edu/2017/04/20/students-recognized-for-eye-catching-data-visualizations/)

Bridging Spaces for Learning. TEDx Furman University, 2014:  
[www.youtube.com/watch?v=hF9oWbR4HPo&t=78s](http://www.youtube.com/watch?v=hF9oWbR4HPo&t=78s)

Vanderbilt-Melbourne International Partnership Grows, Vanderbilt News, 2014:  
[peabody.vanderbilt.edu/departments/tl/teaching\\_and\\_learning\\_research/space\\_learning\\_mobility/melbourne.php](http://peabody.vanderbilt.edu/departments/tl/teaching_and_learning_research/space_learning_mobility/melbourne.php)

## TECHNICAL SKILLS

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*Programming Languages:* Java, JavaScript, Python, Processing, p5.js, Working Knowledge of HTML/CSS, D3.js

*Graphical:* Adobe CC (Illustrator, Photoshop, InDesign, Flash, Audition), 2D/3D Sketching

*Geospatial:* Unfolding Maps, Mapbox, Working Knowledge of ArcGIS

*Video/Audio:* Final Cut Pro X, Adobe Premier

*Statistical:* SPSS, Excel

## SOFTWARE

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*Interaction Geography Slicer (IGS):* Dynamic visualization environment that supports multi-modal analysis of people's interaction and mobility over space and time (in development)

See: <http://dx.doi.org/10.1145/3027063.3053146>

*Mondrian Transcription:* Qualitative transcription method to map movement, conversation and social media/personal information technology use over space and time (in development)

*Re-Shape:* Mobility centered learning environment for social studies teachers (in development)

See: [https://www.youtube.com/watch?v=H8vd\\_HX9RVs](https://www.youtube.com/watch?v=H8vd_HX9RVs)

## AFFILIATIONS

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*Member,* International Society of the Learning Sciences (ISLS)

*Member,* American Education Research Association (AERA)

*Member,* Association for Computing Machinery (ACM)

*Member*, Institute of Electrical and Electronics Engineers (IEEE)  
*Member*, Jean Piaget Society  
*Member*, The Processing Foundation

## SERVICE

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*Member*, Vanderbilt's Quality Enhancement Plan Subcommittee, Design as an Immersive Vanderbilt Experience (DIVE) successfully implemented in 2017. DIVE teaches human-centered design thinking to students so that they may solve complex, real-world problems, develop critical thinking skills, and work in multidisciplinary teams during an immersive, faculty-guided project

*Conference Organizer*, Learning on the Move Workshop, Nashville, TN (2017). Designing Spaces for Learning Conference in collaboration with the University of Melbourne's School of Architecture & Design, Nashville, TN (2014).

*Reviewer*, American Education Research Association Division C, American Education Research Association SIG-Learning Sciences, Journal of Early Childhood Literacy, Journal of Learning, Culture and Social Interaction, International Conference of the Learning Sciences, Interaction Design and Children Conference

*Volunteer*, guitar instructor (acoustic & electric) in multiple settings