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## **EDUCATION**

- PhD**            **University of Pittsburgh**  
Learning Sciences and Policy, 2014  
Advisors: Louis Gomez (now at UCLA)  
                 Jennifer Russell
- Dissertation: Badging to support teaching and learning: An implementation of a school-based badging system*
- MSc**            **Centre for Human Ecology, Edinburgh, Scotland**  
Human Ecology, 2004
- BS**             **University of Wisconsin-Madison**  
Latin Education, 1997

## **PROFESSIONAL EXPERIENCE**

- Assistant Professor, University of Wisconsin-Madison, 2017-present**
- Learning Scientist, Children’s Museum of Pittsburgh, 2014 – 2017**
- Visiting Researcher, Learning Research and Development Center, University of Pittsburgh, 2014-present**
- Visiting Researcher, Human Computer Interaction Institute, Carnegie Mellon University, 2015-present**
- Adjunct Researcher, RAND Corporation, 2013**
- Consultant, Carnegie Foundation for the Advancement of Teaching, 2011-2012**
- Graduate Student Researcher, University of Pittsburgh, Center for Urban Education; Activation Lab; 2008-2014**
- Researcher Associate, Northwestern University, 2004-2008**
- Peace Corps Armenia Volunteer, Teacher Trainer, 2001-2003**
- Latin and ESL Teacher, Bloomington High School South, Bloomington, IN, 1999-2000**

**Latin and Reading Teacher, Racine Unified School District, Racine, WI,**  
1997-1998

## AWARDS AND HONORS

**Fellow**, Innovative New Spaces for Practice and Rehearsal in Education  
(INSPIRE), Teaching Systems Laboratory, MIT, 2018-2019

**Fellow**, Research + Practice Collaboratory, 2016

**DML Design Research Committee Member**, 2014-2015

**Lifelong Learning Badge Working Group Member**, Sprout Fund, 2014-2015

**Digital Media and Learning Research Associates Summer Institute Fellow**,  
Microsoft Research and MacArthur Foundation DML Research Hub, 2012.

**Selected for Doctoral Colloquium**

ACM International Conference on Supporting Group Work 2012 Conference

**Doctoral Colloquium Participant**

ACM Conference on Computer Supported Cooperative Work Conference, 2012

**Summer Fellow**, Frameworks Institute, Summer 2011

**Member, MacArthur Foundation Emerging Scholars Group**, MacArthur  
Foundation funded group of Emerging Scholars of Digital Media and Learning,  
organized by James Gee, May 2011-2013

## PUBLICATIONS

### PEER REVIEWED JOURNAL ARTICLES

**Wardrip, P. S.**, & Herman, P. (2018). 'We're keeping on top of the students':  
making sense of test data with more informal data in a grade-level instructional  
team. *Teacher Development*, 22(1), 31-50.

**Wardrip, P.S.**, & Shapiro, R.B., (eds.). (2016) Digital media and data: Using  
and designing technologies to support learning in practice. *Special issue of  
Learning, Media, and Technology*.

**Wardrip, P.S.**, Abramovich, S., Kim, Y.J., & Bathgate, M. (2016). Taking  
badges to school: A school-based badge system and its impact on participating  
teachers. *Computers and Education*.

Shapiro, R.B. & **Wardrip, P.S.** (2015). Keeping it real: Understanding analytics  
in classroom practice. *Technology, Instruction, Cognition & Learning*.

**Wardrip, P.S.**, Gomez, K., & Gomez, L.M. (2015). We modify each other's work: The role of literacy work circles in developing professional community. *Teacher Development*.

Kwon, S., **Wardrip, P.S.** & Gomez, L.M. (2014). Co-design of Interdisciplinary Projects as a Mechanism for Building School Capacity. *Improving Schools*. 17(1), 54-71.

**Wardrip, P.S.**, Abramovich, S., Bathgate, M. & Kim, Y.J. (2014) A school-based badging system and interest-based learning: An exploratory case study. *International Journal of Learning and Media*.

Herman, P. & **Wardrip, P.S.** (2012). Teachers harness the power of assessment: Collaborative use of student data gauges performance and guides instruction. *Journal of Staff Development*, 33(4), 26-29.

Herman, P. & **Wardrip, P.** (2012). Reading to Learn: Helping students comprehend readings in science class. *The Science Teacher*, 79(1), 58-61.

**Wardrip, P.S.** & Tobey, J. (2009) How Does Mechanical Weathering Change Rocks? Using Reading-To-Learn Strategies to Serve Science Learning, *Science Scope*, 32 (5)

#### **BOOK CHAPTERS**

**Wardrip, P.S.** & Ryoo, J. (forthcoming). The Role of Educational Technology in Informal Learning Environments: Making and Tinkering. In Bishop, M.J., Boling, E., Elen, J. & Svihla, V. (Eds.). *Handbook of Research on Educational Communications and Technology* (5th ed). New York: Springer.

**Wardrip, P.S.** & Abramovich, S. (2017). Ask not what you can do for badges, Ask what badges can do for you. In Young, M. & Slota, S. (Eds.) *Exploding the Castle: Rethinking How Video Games & Game Mechanics Can Shape the Future of Education*. Charlotte, NC: Information Age Publishing.

**Wardrip, P. S.** (2016) Response to Hokanson. In Carr-Chellman, A. & Rowland, G. (Eds.). *Issues in Technology, Learning and Instructional Design: Classic and Contemporary Debates*. New York: Routledge.

**Wardrip, P.S.** & Brahm, L. (2016). *Making goes to school*. In Pepler, K., Halverson, E. & Kafai, Y. (Eds.). *Makeology: Makers as Learners* (Volume 1). New York, NY: Routledge.

Abramovich, S., & **Wardrip, P.S.** (2016). *The Impact of Badges on Motivation to Learn*. In Muilenburg, L. & Berge, Z. (Eds.) *Digital Badges in Education*. New York, NY: Routledge.

#### **REPORTS / WHITE PAPERS / NON-PEER REVIEWED**

Brahms, L., & **Wardrip, P. S.** (2018). *Learning Practices of the Museum Art Studio*. Report to the Benedum Foundation. Pittsburgh, PA: Children's Museum of Pittsburgh.

**Wardrip, P.S.**, Evancho, J. & McNamara, A. (2018). Identifying what matters before you measure it. *Phi Delta Kappan*.

**Wardrip, P. S.**, Brahms, L., Carrigan, T. & Reich, C. (2017) Making and Learning in Museums and Libraries: A Practitioner's Guide and Framework. Institute of Museum and Library Services and Children's Museum of Pittsburgh.

**Wardrip, P.S.**, Brahms, L., Carrigan, T. & Reich, C. (2017) Making and Learning in Museums and Libraries: A Toolkit. Institute of Museum and Library Services and Children's Museum of Pittsburgh.

Brahms, L., & **Wardrip, P. S.** (2017). Crowdfunding to Support Making in Schools: A Toolkit. Children's Museum of Pittsburgh in partnership with MakerEd.

Brahms, L., & **Wardrip, P.S.** 2017. "The What, How, and Why of Making." *Teaching Young Children* 10 (3): 16–17.

Brahms, L., **Wardrip, P.S.**, Bresson, L.M., & King, M. 2017. "Create Problems for Your Preschoolers, Don't Solve Them! The Learning Practices of Making in Your Interest Centers." *Teaching Young Children* 10 (4): 12–15.

Louw, M. & **Wardrip, P. S.** (2017). Remake Learning Research Landscape Analysis: Stewarding Future-Forward Innovative Teaching & Learning with Research. A report to the Grable Foundation.

Brahms, L., **Wardrip, P.S.**, Bresson, L.M., & King, M. 2017. "Create Problems for Your Preschoolers, Don't Solve Them! The Learning Practices of Making in Your Interest Centers." *Teaching Young Children* 10 (4): 12–15.

Brahms, L. & **Wardrip, P.S.** (Summer 2016). Making Engages People. *Hand to Hand*. Association of Children's Museums. 1-2, 12-13.

**Wardrip, P.S.** Brahms, L., Reich, C. & Carrigan, T. (2016). Supporting Learning in Museum Makerspaces: A National Framework. *Museum*, Sept/Oct. p. 18-24.

Brahms, L. & **Wardrip, P.S.** (2016). Learning practices of making. *Teaching Young Children*, 9(6).

Brahms, L. & **Wardrip, P.S.** (2016). Making with young learners: An introduction. *Teaching Young Children*, 9(5)

Brahms, L. & **Wardrip, P.S.** (2014). *Learning Practices of Making: An Evolving Framework*. A White Paper released by the Children's Museum of Pittsburgh with support from IMLS and the Sprout Fund.

Arvizu, S, Santo, R., Arena, D, **Wardrip, P.S.**, Johnson, B., Simon, A & Kendall-Taylor, N. (2012) *Where is the DML on the Education Reform Agenda? An Advocacy Field Report*. A Joint Research Project Between the FrameWorks Institute and the DML Emerging Scholars. FrameWorks Institute.

## MANUSCRIPTS UNDER REVIEW

**Wardrip, P.S.** & Brahms, L. (revise and resubmit). Supporting Learning in Museum Makerspaces: A National Framework. *Journal of Museum Education*

Abramovich, S. & **Wardrip, P.S.** (under review). Can Digital Badges support Religious Identity? *British Journal of Religious Education*.

Shapiro, R.B. & **Wardrip, P.S.** (under review). Teachers reasoning about students' understanding: Teachers learning formative instruction by design. *Educational Technology Research & Development*.

## MANUSCRIPTS IN PREPARATION

Wardrip, PS., Akiva, T., McNamara, A. & Brahms, L. Building toward implementation paths of digital badges.

Wardrip, PS., Brahms, L., & McNamara, A. Building capacity for seeing: codesign of measurement tools with museum educators.

Wardrip, PS. & , Evancho, J.. Values-based Assessment: Teacher learning through evidence-based design.

## SELECTED PEER REVIEWED PRESENTATIONS

**Wardrip, P.S.** (2018). *Assessment and Evaluation of Engagement in Museum Makerspaces: Some Considerations*. Annual conference of ECSITE: European Network of Science Centres and Museums. Geneva, Switzerland.

**Wardrip, P.S.** (2018). *Agency by Design Pittsburgh: Exploring Protocols to Build Community*. Presentation at the Connected Learning Summit. Cambridge, MA.

**Wardrip, P.S.** & Brahms, L. (2018). *Assessment of Learning and Engagement through Making in Informal Learning Settings*. Fourth Annual Maker Ed Convening, San. Jose, CA.

Heroman, C., **Wardrip, PS.**, King, M. & Baker, C. (2017). *Making, tinkering and makerspaces: What you need to know about makerspaces and how teachers*

*are using them in their classrooms.* NAEYC Professional Learning Institute, San Francisco, Calif.

Bonnette, R., Crowley, K., **Wardrip, PS.** & Brahms, L. (2017). *Making is in the Mindset: How a Makerspace can support at-risk youth.* Structured Poster Session at the Annual Meeting of AERA, San Antonio, TX.

McNamara, A., Akiva, T., **Wardrip, PS.** & Brahms, L. (2017). *The Interactivity of Learning through Making.* Roundtable Session at the Annual Meeting of AERA, San Antonio, TX.

Brahms, L., **Wardrip, P. S.**, & McNamara, A. (2017, July). *Making Observations: Identifying Evidence of Learning in Makerspaces.* In 30th Annual Visitor Studies Association Conference, Columbus, Ohio.

Pattison, S., Brahms, L., Crowley, K., **Wardrip, P.S.**, Akiva, T. & McNamara, A. (2016). *Facilitation of Making as a Learning Process: Reflective Practice and Theory Building.* Paper presentation in the session, Approaches to Video Analysis: Studying learning and catalyzing reflection at the Annual Meeting of the Visitor Studies Association, Boston, MA.

**Wardrip, P.S.**, Brahms, L. & Reich, C. (2016). A Framework to Support Learning in Library and Museum Makerspaces. Annual Meeting of the American Alliance of Museums, Washington, DC.

**Wardrip, P.S.**, Akiva, T., McNamara, A. & Brahms, L. (2016). From Big Hype to Hard Work: Understanding Educator Implementation of Digital Badges. Annual Meeting of the American Educational Research Association, Washington, DC.

**Wardrip, P. S.**, & Brahms, L. (2015, June). Learning practices of making: developing a framework for design. In *Proceedings of the 14th international conference on interaction design and children* (pp. 375-378). ACM.

**Wardrip, P.S.**, & Brahms, L. (2015). *Making Goes to School.* Paper presentation at Annual Meeting of the American Educational Research Association, Chicago, IL.

**Wardrip, P.S.** & Ahn, J. (2015). *Blended Learning in K-12 Education: What do we really have, and where do we go.* Paper presentation at Annual Meeting of the American Educational Research Association, Chicago, IL.

Carrigan, T. & **Wardrip, P.S.**, & Brahms, L. (2015). *Making and Learning in Museums and Libraries: An Emerging Framework.* Annual Meeting of the New Media Consortium, Washington, DC.

**Wardrip, P.S.** & Carrigan, T. (2015). *Making and Learning: An Emerging Framework for Museums and Libraries.* Conversation Starter at the Annual

American Library Association Convention, San Francisco, CA

**Wardrip, P.S.** & Brahms, L. (2014). Mobile MakeShop: Preliminary findings from two school sites. *Poster presentation at Fablearn: Conference on Creativity and Digital Fabrication in Education*. Stanford, Ca.

Crowley, K., Schunn, C., Bathgate, M.E., Kehoe, S., Louw, M., & **Wardrip, P.S.** (2014). *Designing for activation: Building STEM learning pathways for Pittsburgh's youth*. Paper presentation at the symposium: *STEM Learning Ecosystems* at the NARST annual conference, Pittsburgh, PA.

Abramovich, S., **Wardrip, P.S.**, Bathgate, M.E., & Kim, Y.J. (2014). *The maturation of a badge system to support interest based learning: A case study*. Talk to be presented at the symposium: *Innovating Education Practice through Digital Badges: Recent Research, Current Practices, and Future Directions* at the American Education Research Association (AERA) annual conference, Philadelphia, PA

Herman, P. & **Wardrip, P.S.** (2013). *Toward a Theory of Data-Informed Instructional Practice: How might data use matter?* Paper presentation at Annual Meeting of the American Educational Research Association, San Francisco, CA.

**Wardrip, P.S.**, Abramovich, S., Bathgate, M. & Kim, Y.J. (2013). *Power-ups and soft skills: An exploratory study of a school-based badging system*. Roundtable paper presentation at Annual Meeting of the American Educational Research Association, San Francisco, CA.

**Wardrip, P.S.** & Herman, P. (2013). *Clipboards and Checklists: An exploratory case of one teacher's analog data-informed practice*. Symposium paper presentation at Annual Meeting of the American Educational Research Association, San Francisco, CA.

Abramovich, S., **Wardrip, P.S.**, Kim, Y.J., Higoshi, R., Bathgate, M. (2013) *Gamification and learning: Does education need some "stinkin' badges?"* Panel presentation at PAX East, Boston, MA.

Kim, Y.J., **Wardrip, P.S.**, Stokes, B; Ingram-Goble, A. Almond, R., Gee, J. (2012). *ECDemocratized: A democratization of assessment*. Symposium paper presentation at the Games, Learning and Society Conference, Madison, WI

Dolle, J., **Wardrip, P.S.**, Russell, J.L., Gomez, L.M., & Bryk, A.S. (2012). *The power of improvement networks to transform educational inquiry: A preliminary exploration*. Poster presentation at the International Conference of the Learning Sciences, Sydney, Australia.

Herman, P., **Wardrip, P.S.** & Zywicki, J. (2012). *Motivation in the learning sciences: Connecting to practice by design*. Paper presentation for the International Conference for the Learning Sciences, Sidney, Australia

**Wardrip, P.S.**, Herman, P., Kessler, A. & Cooper, B. (2012). *Exploring frames of data for engagement: How educators frame data for instruction*. Roundtable paper presentation at the Annual Meeting of the American Educational Research Association., Vancouver, BC.

Herman, P., Perkins, K., **Wardrip, P.S.** (2012). *Reading Comprehension Strategies in High School Science Classrooms: Evidence That Improving Students' Reading-to-Learn Competencies Increases Science Achievement*. Poster presentation at the Annual Meeting of the American Educational Research Association, Vancouver, BC.

Herman, P., Perkins, K., **Wardrip, P.S.** (2012). *Supporting reading in high school science: Evidence that strategy instruction increases science achievement*. Paper presentation for the National Association for Research on Science Teaching, Indianapolis, Ind.

Ingram-Goble, A., Shapiro, B., Stokes, B., Kim, Y.J. & **Wardrip, P.S.** (2012). *A design to change assessment: Evidence centered design & demoralizing assessment*. Paper presentation for Digital Media and Learning Conference, San Francisco, Ca.

**Wardrip, P.S.** (2012). Collective capabilities: building a theory of coordinated collective action in a networked improvement community. *Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work*, p. 355-358.

Shapiro, R.B. & **Wardrip, P.S.** (2011). *Interactive Representations of Student Activity to Inform Teacher Collaborations: Results from a Formative Exploration*. Paper presentation for the International Conference on Computer Supported Collaborative Learning, Hong Kong.

**Wardrip, P.S.**, Herman, P., Gomez, L.M. & Greeno, J.G. (2011) *Knowing more about students' backstories: Rich data for instruction*. Round-table paper presentation for the annual meeting of the American Educational Research Association, New Orleans, LA

**Wardrip, P.S.** & Gomez, L.M. (2011) *Who are they talking to?: Student social networks as actionable data for teachers*. Paper presentation for the annual meeting of the American Educational Research Association, New Orleans, LA

Shapiro, R.B. & **Wardrip, P.S.** *Formative Instruction by Design*. (2010) Poster presentation accepted for the bi-annual meeting of the International Conference of the Learning Sciences, Chicago, IL

**Wardrip, P.S.** (2009) *Building Professional Learning Communities: Coming Together Around Common Practice*, Symposium paper presented at the annual meeting of the American Educational Research Association, San Diego, CA



**Wardrip, P.S.** & Gomez, L.M. (2009, April) *Literacy in the Content Areas as an Organizational Problem*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Kwon, S., **Wardrip, P.S.** & Gomez, L.M. (2008, June) *Co-design of Interdisciplinary Projects as a Mechanism for School Capacity and Teacher Professional Community Growth*, Paper presentation accepted for the bi-annual meeting of the International Conference of the Learning Sciences, Netherlands

**Wardrip, P.S.** (2008, March) *More Than Heavy Lifting: The Role of Project Based Learning in the Development of Professional Community*. Roundtable paper presented at the annual meeting of the American Educational Research Association, New York, NY

## CONFERENCE WORKSHOPS

Brahms, L., **Wardrip, P.S.**, & McNamara, A. (2017) Making Connections: Facilitating Learning Through Making. In 30 th Annual Visitor Studies Association Conference, Columbus, Ohio.

Chang, S., **Wardrip, P.S.**, & Koffler, K. (2017). Workshop: National Toolkit for Sustaining Making in Learning. In Fablearn Conference, Stanford, Calif.

Kim, YJ, Rosenheck, L., Parker, J. & **Wardrip, PS.** (2017). MetaRubric: Assessment Design for Maker Educators. In Fablearn Conference, Stanford, Calif.

Brahms, L., **Wardrip, P.S.** & Regalla, L. (2015). *Making as a Learning Process: Principles of Practice and Design*. Association of Science and Technology Centers Annual Conference, Montreal, Quebec

Brahms, L., **Wardrip, P.S.** & Regalla, L. (2014). *Making as a Learning Process: Principles of Practice and Design*. Fablearn: Digital Fabrication in Education, Palo Alto, CA.

Lin, P., Roque, R., **Wardrip, P.S.**, Ahn, J., & Shapiro, R.B. (2014). Designing futures for peer 2 peer learning @CSCW. *Computer Supported Cooperative Work annual meeting*, Baltimore, MD.

**Wardrip, P.S.**, Shapiro, R.B., Forte, A., Maroulis, S., Brennan, K., Roque, R. (2013). CSCW and Education: Viewing education as a site of work practice. *Computer Supported Cooperative Work annual meeting, San Antonio, TX.*

## GRANTS

**PI, NSF EAGER - Enhanced learning through making by way of personalized content for animation and fabrication**, National Science Foundation, 2017-2019,

**Co-PI, IMLS National Leadership Grant: Making Observations: Building an Evaluation Tool for Making as a Learning Process**, Institute of Museum and Library Services, 2016-2019,

**Research Lead, Making Spaces: Expanding Maker Education Across the Country**, Partnership between Children's Museum of Pittsburgh and Maker Ed, Funded by Google, 2016-2017,

**PI, Evaluation of Pittsburgh Urban Teaching Corps / Teacher Career Pathways**, Propel Schools Foundation, 2016-2017,

**PI, Next Generation Learning Formative Evaluation**, Opportunity Education Foundation, 2016,.

**PI, AERA Research Conference Grant**, American Educational Researchers Association, 2015,

**Co-PI, City of Learning Research Grant**, Sprout Fund, 2015,

**Co-PI, Remake Learning Research Landscape Analysis**, Remake Learning Council, 2015,

**PI, Next Generation Learning Workshop Formative Evaluation**, Opportunity Education Foundation, 2015,

**Co-PI, Badge Initiative Research Program**, funded by the Covenant Foundation, March 2012 – September 2013; Co-PI,

**PI, University of Pittsburgh Student Research Grant**, 2009;

## TEACHING

**University of Pittsburgh:** Co-Instructor for *Issues on Accountability and Testing for School Leaders* online course, Spring 2011  
*Literacy in Science Education Modules*, Fall 2013

**University of Wisconsin-Madison**  
*C&I 606: Critical Perspectives on Digital Media in Education*  
*C&I 975: Museums and Education*  
*C&I 209: Digital Media and Literacy*  
*C&I 975: Formative Assessment Design*  
*C&I 713: Technology Integration for Teachers and Learners*

## SERVICE

### JOURNAL REVIEWING

Urban Education  
The Information Society

Technology, Knowledge & Learning  
Computers and Education

**CONFERENCE REVIEWING**

Computer Supported Collaborative Learning  
Computer Supported Cooperative Work  
Games, Learning & Society  
Hawaii International Conference on System Sciences  
International Conference for the Learning Sciences  
Computer Human Interaction (CHI)  
National Association for Research on Science Teaching  
American Educational Research Association  
Fablearn

**GRANT REVIEWING**

National Science Foundation  
US Department of Education: Promise Neighborhoods, i3; Race to the Top;  
Charter Schools Program; Teacher Quality Partnership  
Corporation for National and Community Service: Americorps;  
US Department of Labor; State Departments of Education (Illinois, Florida,  
New York, Oklahoma, Oregon, Arizona), Institute of Museum and Library  
Services