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 University of Pittsburgh Center for Out of School Learning (UPCLOSE)  
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## EDUCATION

Ph.D. Curriculum Studies University of British Columbia	1995-2000 Vancouver, BC
Dissertation title: Hanging Emily: Exhibition Strategies and Emily Carr Co-supervisors: Dr. Graeme Chalmers, Dr. Peter Seixas	
BA (hons.), M.A. Art History Queen's University	1988-1995 Kingston, ON

## NATIONAL SERVICE and RECOGNITION

Co-Editor Visitor Studies Journal (term beginning summer 2017).

Institute of Library and Museum Services (2008). Presentation to panel on the Future of Libraries and Museums in the 21<sup>st</sup> Century. at the National Academies, *Expertise and experience: Museums, a place for talk*.

National Research Council (2006) Presentation to the Board of Informal Science Education at the National Academies, *Perspectives on research on learning in informal environments*.

Chair Publications committee, Visitor Studies Association (2008 to 2012).  
 Board member, Visitor Studies Association (2007-2012)

Roy L. Shafer Leading Edge Award, Association of Science and Technology Centers award for innovative professional practice for the UPCLOSE partnership with the Children's Museum of Pittsburgh. (2005)

Met Life Promising Practice award from the Association of Children's Museums, for innovative business practices, awarded to the Children's Museum of Pittsburgh and UPCLOSE (2004)

Co-Chair, Visitor Studies Association Annual Conference (2004)

Co-chair Division C4b Out of School Learning Environments, annual meeting of the American Educational Research Association (2001)

## PUBLICATIONS

Knutson, K., Crowley, K., Correnti, R., & Allen, L. (in preparation). Family learning in natural history museum settings. *Visitor Studies*.

Knutson, K. (in review). Science and natural history museums and the challenges of communicating climate change. In Schroeder, K., Drotner, K., Perry, D. (Eds.). *The Routledge Handbook of Museum Media and Communication*.

Knutson, K. & Crowley, K. (revise and resubmit). Developing a Passion for Science: The Nature of Strong, Early Interests and Their Role in Lifelong Learning Pathways. *Cognition and Instruction*.

Knutson, K. (2017). Review: McSweeney, K., & Kavanagh, J. (Eds.) (2016). Museum Participation: New Directions for audience collaboration. Edinburgh, UK: Museums Etc. *Visitor Studies* 20.1, 107-109.

Knutson, K., Crowley, K., Lyon, M., Giarratani, L. (2016). Flexible interventions to increase family engagement at Natural History museum dioramas. *Curator*.

Knutson, K. & Crowley, K. (2016). Learning in art museums: Creating and responding to art. In K. Nakakoji, H. Shido, Y. Yamamoto, & T. Okada (Eds.), *Museums that inspire: In search of new possibilities for public cultural spaces*. Kyoto: Airi Shuppan. [in Japanese]

Dillon, J., DeWitt, J., Pegram, E., Irwin, B., Crowley, K., Hayden, R., King, H., Knutson, K., Veall, D., and Zanthoudaki, M. (2016). A learning research agenda for natural history institutions. London: Natural History Museum.

Knutson, K. & Crowley, K. (2016). Collaborating across the university/informal boundary: Broader impacts through informal science education. In *Intersections Between Formal and Informal Science*. Lucy Avraamidou & Wolff-Michael Roth (Eds). (pp.155-165) NY: Routledge.

Crowley, K., Pierroux, P., & Knutson, K. (2015). Informal learning in museums. In K. Sawyer, Ed. *Handbook of the Learning Sciences*. Cambridge University Press.

Crowley, K., Barron, B.J., Knutson, K., & Martin, C. (2015). Pathways to children's development of interest in science. In *Interest in Mathematics and Science Learning and Related Activity*. K. A. Renninger, M. Nieswandt, and S. Hidi (Eds.). Washington DC: AERA.

Knutson, K. (2013). Exploring art and history at the Warhol Museum using a Timeweb. In K. Drotner, and K. Schroeder (Eds.) *The connected museum: Social media and museum communication*. London: Routledge.

Russell, J., Knutson, K., & Crowley, K. (2012). Informal learning organizations as part of an educational ecology: Lessons from collaboration across the formal/informal divide. *Journal of Educational Change*. DOI: 10.1007/s10833-012-9203-4

Knutson, K. & Crowley K. (2011). Construindo uma ponte entre Museus e Visitantes. Bial do Mercosul. Mediação traçando o território. Porto Alegre, 43-45. Portuguese translation of: Knutson, K. & Crowley, K. (2006). Bridging the gap between museums and visitors. *Visitor Studies Today*, 9 (3): 16-17.

Giarrantani, L., Parikh, A., Di Salvo, B., Knutson, K. & Crowley, K. (2011). Click!: Pre-teen girls and a mixed reality role playing game for science and technology. *Nordic Journal of Digital Literacy*, 3.6, 121-138.

Knutson, K, Crowley, K, Russell, J, Steiner, M. (2011). Approaching art education as an ecology: Exploring the role of museums. *Studies in Art Education*. 52.4, 326-338.

Luke, J. & Knutson, K. (2010). Beyond Science: Implications of the LSIE report for Art Museum Education. *Curator* 53.2, 229-237.

Knutson, K. & Crowley, K. (2010). Connecting with art: How families talk about art in a museum setting. In M. K. Stein & L. Kucan (Eds.), *Instructional Explanations in the Disciplines*. New York: Springer.

Sanford, C., Knutson, K., Crowley, K. (2007). "We Always Spend Time Together on Sundays": How Grandparents and Their Grandchildren Think About and Use Informal Learning Spaces. *Visitor Studies*, 10 (2), 136-151.

Knutson, K. & Crowley, K. (2006). Bridging the gap between museums and visitors. *Visitor Studies Today*, 9 (3): 16-17.

Leinhardt, G. & Knutson, K. (2006). Grandparents speak: Museum conversations across the generations. *Curator*, 49 (2), 235-252.

Knutson, K. & Crowley, K. (2005). Museum as learning laboratory: Developing and using a practical theory of informal learning. *Hand to Hand*. (Part 1 of 2) 18(4), pp. 4-5.

Crowley, K. & Knutson, K. (2005). Museum as learning laboratory: Bringing research and practice together. *Hand to Hand*. (Part 2 of 2). 18(5), pp. 3,6.

Knutson, K. (2004). What does a lifelong learning community look like? Pulling it all together. In M. Maher, (ed.) *The 21<sup>st</sup> Century Learner: The continuum begins with early learning*. (44-45). Washington, DC. Association of Children's Museums.

Leinhardt, G. & Knutson, K. (2004). Listening in on museum conversations. Walnut Creek, CA: Altamira Press.

Knutson, K. & Crowley, K. (2004). Review of *Behind the scenes in the Science Museum*, *Science Education*. 88.2, 297-300.

Leinhardt, G., Knutson, K., Crowley, K. (2003). Museum Learning Collaborative redux. *Journal of Museum Education*, 28.1, 23-31.

Leinhardt, G., Crowley, K., & Knutson, K. (Eds.). (2002). Learning Conversations in Museums. Mahwah, NJ: Lawrence Erlbaum.

Knutson, K. (2002). Creating a space for Learning: Curators, educators and the implied audience. In Leinhardt, G., Crowley, K., & Knutson, K. (Eds.). Learning Conversations in Museums. 5-44. Mahwah, NJ: Lawrence Erlbaum.

Leinhardt, G., Tittle, C. & Knutson, K. (2002). Talking to oneself: Diaries of museum visits. In G. Leinhardt, K. Crowley, & K. Knutson (Eds.), Learning Conversations in Museums. Mahwah, NJ: Lawrence Erlbaum.

Knutson, K. (2000). Musings: On methods for studying museum visitors. Available at: <http://www.museumlearning.com>.

Knutson, K. (1997). Issues in art and text at the Vancouver Art Gallery. In S. Thunder-McGuire (Ed.) Marilyn Zurhmuelhen Working Papers in Art Education, 1996-1997 (pp.151-157). Iowa State University.

Dymond, A., Hickson, S., Hoffman, J., Knutson, K., McAtee, C., Petrie, L., & Spasoff, N. (1994). Curio/Specimen/ Art: Labelling Native Culture (exhibition and ex. cat.). Kingston, ON: Agnes Etherington Art Centre.

INVITED PRESENTATIONS

Knutson, K. (2016, November). Artist's learning ecologies. Interdisciplinary explorations of art learning and artistic processes. University of Tokyo, Tokyo, JP.

Knutson, K. (2015, August). Museum cross-sector partnerships and the challenge of communicating climate change in science and natural history museums in the United States. Museum communication: Prospects and Perspectives, International research conference, Danish Royal Academy of Sciences and Letters, Copenhagen, Denmark.

Knutson, K. (2014, February). Developing interests: the role of informal learning settings in fostering lifelong interests in disciplines like history. AERA special conference: What are teachers learning from visits to History sites. Boston University, Boston, MA.

Knutson, K. (2013, November). Pathways to becoming an artist: Looking at retrospective interviews of arts professionals. Activating inspiration and creativity conference, University of Tokyo, Tokyo, JP.

Knutson, K. (2011, Oct.). Learning research and art education. Education policy and leadership center: Arts and education symposium. State Museum, Harrisburg, PA.

Knutson, K. (2011, April). More than exposure: How to think about learning in art museums. Invited speaker. SIG: Informal Learning. American Educational Research Association annual meeting, New Orleans, LA.

Knutson, K. (2011, Jan.). Current trends and research in informal learning environments. Invited Speaker, University of Washington Museum Studies Program. Seattle, WA.

Knutson, K. (2010, Nov.) Connecting through the gallery: Thinking about disciplinary traces and transfer in an interactive museum setting. Designing Bridges: Structures for Learning Across Sites. Intermedia, University of Oslo, Oslo. NO.

Knutson, K. (2010, Sept.). Co-authoring, participation, interactivity and authority: What does it mean to engage with art in a museum and an online context? Invited presentation, Expert Summit, "Transnational research agenda for digital museum futures: cultural industries, public good, social resource?" DREAM: University of Southern Denmark, Copenhagen.

Knutson, K. (2009, May). Building a New Town Square at the Children's Museum of Pittsburgh. Museums Australia National Conference held at Newcastle City Hall, NSW, Australia.

Knutson, K. (2008, July). Expertise and experience: Museums, a place for talk. Presentation to panel on the Future of Libraries and Museums in the 21<sup>st</sup> Century. at the National Academies, Washington, DC.

Crowley, K. & Knutson, K. (2007, Nov.) The need for a practical theory of museum learning. Presented at Institut für Wissensmedien IWM / Knowledge Media Research Center KMRC, Tübingen, Germany.

Knutson, K. (2006, Dec.) Perspectives on research on learning in informal environments. Presentation to the Board of Informal Science Education at the National Academies, Washington, DC.

Knutson, K. (2003, June). Creativity and the design of museum environments. The Museum of Modern Ceramic Art, Gifu, and Nagoya University, Nagoya, Japan.

Knutson, K. (2003, May). Learning theory research in museums: What do people learn from visiting museums and how do they learn it? Invited presentation, annual meeting of the American Association of Children's Museums, Houston, TX.

Knutson, K. (2003, March). What does research tell us about museum learning? Invited presentation, Westmoreland Museum of American Art, Greensburg, PA.

Knutson, K. (2003, October). What research tells us about learning in museums? Invited presentation, Frick Art Museum, Pittsburgh, PA.

## PRESENTATIONS

Knutson, K. et al. (2017, June). Ecosystems for lifelong learning. Ecsite Annual conference, Porto, PT.

Knutson, K. Crowley, K, Hecht, M. (2017, April). Bringing research and practice together in a museum: A partnership to develop informal learning experiences for the 21<sup>st</sup> Century Naturalist. AERA annual conference, San Antonio, TX.

Knutson, K. (2016, July). A Family Learning Framework: Common measures to capture learning experiences. Visitor Studies Association annual Conference, Boston, MA.

Crowley, K. & Knutson, K. (2016, June). How facilitation extends, deepens, and supports and informal learning. Or not. Ecsite annual conference, Graz, AT.

Knutson, K. (2015, Oct.). Towards the 21st Century Natural History Museum: A dialogue. ASTC annual conference, Montreal, QC.

Knutson, K. (2015, June). Towards The 21<sup>st</sup> Century Natural History museum: Working with communities. Escite annual conference, Trento, IT.

Knutson, K. (2013, April). Interactive experiences in Art Museums: Encouraging visitors to engage. AERA annual conference, San Francisco, CA.

Knutson, K. & Crowley, K. (2012, April). Activating Young Science Learners: Igniting Persistent Engagement in Science Learning and Inquiry. AERA annual conference, Vancouver, BC.

Ellenbogen, K, Crowley, K., Knutson, K. (2011, July). Building informal science education: Synthetic analysis and cross-ISE connections. VSA conference, Chicago, IL.

Knutson, K. (2010, Oct.) From Object to Evidence: Rethinking what's real in Science Museums. ASTC Annual Conference, Honolulu, HI.

Russell, J. L., Knutson, K., Crowley, K., Kisa, J. & Steiner, M. A. (2010, May). Collaborations bridging the formal-informal divide in an educational ecology. Paper presented at the annual meeting of the *American Educational Research Association*, Denver, CO.

Knutson, K. (2008, March). Talking about art: Thinking about concepts in an informal setting. Paper presented annual meeting of the American Educational Research Association, New York, NY.

Knutson, K. (2004, August). Developing expertise: Supporting art learning in a children's museum. Visitor Studies Association annual meeting, Albuquerque, NM.

Knutson, K. (2004, May). Creating a lifelong learning community. ACM annual meeting of the American Association of Children's Museums, New Orleans, LA.

Knutson, K. (2004, April). Two installations, one show: Aluminum by Design: From Jewelry to Jets. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Knutson, K. (2002, May). Museum research: On visitors, conversations and the curatorial message. Paper presented at the Canadian Society for the Study of Education annual meeting, Toronto, ON.

Knutson, K. (2002, March). Visitors, conversations and the curatorial message. Paper presented at the National Art Education Association Conference, Miami, FL.

Knutson, K. (2001, April). How are conflicting notions of visitor learning reconciled in museum exhibits? Plenary session at the Pennsylvania Statewide Museum Conference, Pittsburgh, PA

Knutson, K. (2001, April). Creating a space for learning: Curators, educators, and the implied Audience. Invited paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.

Leinhardt, G., Tittle, C. & Knutson, K. (2000, April). Talking to oneself: Diaries of museum visits. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Knutson, K. (1999, April). Postmodernism and writing history for the public. Paper presented at the annual meeting of the American Educational Research Association, Montreal, QC.

Knutson, K. (1999, March). Aesthetics, multiculturalism, and the museum. Paper presented at the National Art Education Association Conference, Washington, DC.

Knutson, K. (1999, March). Entry points and webs of meaning in the museum. Paper presented at the National Art Education Association Conference, Washington, DC.

Knutson, K. (1998). Visitor studies: Expectations and experiences. Invited presentation at the Vancouver Art Gallery, Vancouver, BC.

Knutson, K. (1998). Exhibition as narrative form: Possibilities. Paper presented at Explorations in Research III Annual Conference, University of British Columbia, Vancouver, BC.

Knutson, K. (1998, March). Writing for "Studies in Art Education." Panel presentation at the National Art Education Association Conference, Chicago, IL.

Knutson, K. (1996, March). Hanging Emily: Issues in art and text at the Vancouver Art Gallery. Paper presented at the National Art Education Association Conference, New Orleans, LA.

Knutson, K. (1996). Text use in gallery settings. Invited presentation at the Vancouver Art Gallery, Vancouver, BC.

#### SELECTED RECENT GRANTS

Spencer Research/ Practice, Co-PI UPCLOSE/ Carnegie Museum of Natural History	2015-2018
NSF Co-PI Building Informal Science Education	2010-2015
NSF Senior personnel, CCEP CUSP: Franklin Institute, New York Hall of Science, Carnegie Museum of Natural History, National Geographic	2010-present
Teen Spaces: Supporting teen identities and interests in Libraries, Carnegie Libraries Pittsburgh	2013-2015
LRDC: University of Pittsburgh Ecology of Educational Opportunities in Pittsburgh	2008-2010

Institute of Museum and Library Services Planning Grant Learning in Art Museums	2009-2010
Manchester Craftsmen Guild Evaluation of Afterschool Teen Arts Program	2008-2010
Getty Museum, Los Angeles Family Room Evaluation	2006-2008
Heinz Endowments Children's Museum of Pittsburgh Ethnography of Expansion and Change	2002-2006
SPRY Foundation-intergenerational programs	2004- 2005

#### EVALUATION PROJECTS AND REPORTS

- Knutson, K. (2015). Diorama Study: Iterative engagement strategy tests. Carnegie Museum of Natural History. Unpublished evaluation report.
- Knutson, K. (2015). Study of Chemistry Centers for Innovation: Collaborating with Informal Science Education Providers. NSF. Unpublished evaluation report.
- Knutson, K. (2015). Evaluation of Teen spaces, advisory process, and retrospective study of teens, Carnegie Libraries of Pittsburgh.
- Knutson, K. (2015). Evaluation of interactive kiosks, Carnegie Museum of Natural History. Unpublished evaluation report.
- Crowley, K. & Knutson, K. (2014). The 21<sup>st</sup> Century Natural History Learning Research Agenda. <http://informalscience.org/perspectives/blog/a-research-agenda-for-learning-in-natural-history-settings>
- Knutson, K. (2013). Evaluation of Wild Earth Day programming at the Pittsburgh Zoo & PPG Aquarium. Unpublished evaluation report.
- Knutson, K. Crowley, K. & Allen, L. (2013). NASA data in my field trip: Carnegie Museum of Natural History. Unpublished evaluation report.
- Knutson, K. & Crowley, K. (2011). Audience research for teen spaces at the Carnegie Libraries of Pittsburgh. Unpublished evaluation report.
- Knutson, K., Crowley, K., & Steiner, M. (2010). A three year evaluation and capacity building partnership between the Manchester Craftsmen Guild Youth Programs and the University of Pittsburgh Center for Learning in Out-of-School Environments. Unpublished evaluation report.
- Knutson, K. (2009). Evaluation of Overview Gallery Warhol Museum. Unpublished evaluation report.
- Knutson, K. & Crowley, K. (2008). Learning conversations in an art museum: The impact of a family room visit on parent-child gallery experiences. Evaluation report prepared for the Getty Museum.
- Guise, M, Crowley, K., & Knutson, K. (2008). Evaluation of the Carnegie Museum of Natural History's West Virginia Distance Learning Program: A Focus on Technology Literacy. Unpublished evaluation report.

- Knutson, K. (2008). Mattress Factory: Teaching Artists and Field Trip program evaluation. Unpublished evaluation report.
- Crowley, K. & Knutson, K. (2006). Deep dives and islands of expertise: Principles for educational games based on interest. Unpublished concept paper prepared for Scholastic, Inc.
- Knutson, K. (2007). Warhol Museum: Evaluation of Timeweb: Online, In museum, and Advisor's group. Unpublished evaluation report.
- Knutson, K., Zwanger, M. & Kauffman, J. (2006). Study of Leadership Academy Expert Art Teachers Professional Development, Arts Education Collaborative. Unpublished evaluation report.
- Knutson, K., Zwanger, M. & Kauffman, J. (2006). Study of Professional Development in Art Education implemented into Schools in Four Counties. Unpublished evaluation report.
- Knutson, K. (2005). Evaluation of teen programs at the Carnegie Museum of Art. Unpublished evaluation report.
- Knutson, K. (2005). Evaluation of teen philosophy programs at the Warhol Museum. Unpublished evaluation report.
- Knutson, K. (2003). Evaluation of interactives Warhol Museum. Heinz Audience Enrichment Program. Unpublished evaluation report.
- Knutson, K. (2003). Evaluation of engagement initiatives Carnegie Museum of Art. Heinz Audience Enrichment Program. Unpublished evaluation report.
- Knutson, K. (2001). Pittsburgh Supercomputer Center: Evaluation of Pittsburgh Sci-Tech Festival exhibits. Unpublished evaluation report.

## MUSEUM EXPERIENCE

Director of Research and Evaluation  
Children's Museum of Pittsburgh  
<http://www.pittsburghkids.org>

2005-2007  
Pittsburgh, PA

Fellow, Museum Leadership Institute  
Getty Center

2005  
Los Angeles, CA

Project Manager  
Post-doctoral Fellow  
Museum Learning Collaborative  
University of Pittsburgh  
[www.museumlearning.com](http://www.museumlearning.com)

1999-2002  
Pittsburgh, PA

--Developed, conducted and managed large-scale research project that included studies at the following museums and exhibitions:  
-Carnegie Museum of Art, Pittsburgh, PA



- Aluminum by Design: From Jewelry to Jets, Light! The Industrial Age, 1750-1900: Art & Science, Technology & Society*  
-Carnegie Museum of Natural History, Pittsburgh, PA  
*Alcoa Foundation Hall of the American Indian*  
*Africa: One Continent, Many Worlds*
- Henry Ford Museum and Greenfield Village, Dearborn, MI.  
*The Automobile in American Life*
- The Exploratorium, San Francisco, CA (American Museum of the Moving Image, Astoria, New York)  
*Behind the Screen: Making Motion Pictures and Television*
- Conner Prairie, Indianapolis, IN.  
*Prairietown* (living history museum)
- Van Gogh Museum, Amsterdam, NL  
*Light! The Industrial Age, 1750-1900: Art & Science, Technology & Society*
- The Wolfsonian-Florida International University  
*Aluminum by Design: From Jewelry to Jets*

Exhibit design and program development Vancouver Art Gallery	1996-2000 Vancouver, BC
Museum Educator: Curriculum Development Museum of Anthropology	1998 Vancouver, BC
Research Consultant: Visitor Studies Vancouver Art Gallery	1998 Vancouver, BC
Curator Curio/Specimen/ Art: Labelling Native Culture. Agnes Etherington Art Centre	1994 Kingston, ON
Research Assistant/ Registrar/Docent Fort Erie Historical Museum	1985-1988 Fort Erie, ON

#### SELECTED COURSES TAUGHT

Informal Learning University of Pittsburgh	Spring, 2012 Pittsburgh, PA
Museums as educational resources University of Pittsburgh	Spring, 2011 Pittsburgh, PA
Visual Cultures: Museums, Communities, and Art Education University of Pittsburgh	Spring, 2003 Pittsburgh, PA
Visual Cultures: Museums, Communities, and Art Education University of Pittsburgh	Spring, 2002 Pittsburgh, PA
Integrating Art and Music into the Elementary Classroom University of Pittsburgh	Winter, 2002 Pittsburgh, PA
Art Education Methods For Pre-Service Elementary Teachers University of British Columbia	1997-1999 Vancouver, BC

Introduction to Art History Graduate Teaching Assistant Queen's University	1992-1994 Kingston, ON
Canadian Art History Graduate Teaching Assistant Queen's University	1992-1994 Kingston, ON

#### EDITORIAL EXPERIENCE

Editor, <u>Learning Conversations in Museums</u> Publisher: Lawrence Erlbaum Associates	2000-2001
Web Site Editor: Museum Learning Collaborative <a href="http://www.museumlearning.com">http://www.museumlearning.com</a>	1999-2002
Editorial Assistant <u>Studies in Art Education</u> Leading research journal for Art Education	1995-1999 Vancouver, BC

#### COMMUNITY SERVICE

Reviewer, National Science Foundation  
Reviewer, Curator  
Reviewer, Museum Management and Curatorship  
Reviewer, Science Education Journal  
Reviewer, American Educational Research Journal  
Reviewer, Teaching and Teacher Education  
Reviewer, Institute of Museum and Library Services  
Reviewer, Visitor Studies

#### PROFESSIONAL MEMBERSHIP

Visitor Studies Association  
American Association of Museums  
American Educational Research Association  
College Art Association  
National Art Education Association  
International Society for Education through Art