

MICHELLE L PHILLIPS

Inverness Research

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Professional Preparation

- 2002 Stanford University, Ph.D., Curriculum and Teacher Education
1995 Stanford University, M.A., Science Education/Curriculum and Teacher Education; Teaching Certificate with CLAD certification
1991 University of California, Riverside, B.S., Biological Sciences

Appointments

- 2006 - Senior Researcher, Inverness Research.
2004-06 Senior Researcher, Center for Informal Learning and Schools, Exploratorium.
2002-04 Research Social Scientist, Center for Technology and Learning, SRI International.
2001-02 Consultant and Evaluator, Children's Discovery Museum, San Jose, CA.
1998-2002 Researcher and Evaluator. Triad Alliance for Gender Equity. University of California, San Francisco.
1998-99 Co-Instructor, Science Curriculum and Instruction, Stanford University.
1997-98 Teacher, 8th grade Science and Algebra, Mill Valley School District, CA.
1995-97 Teacher 7th and 8th grade Science and Algebra, Portola Valley School District, CA.
1991-94 Instructor/Researcher, Ocean Institute, Dana Point, CA.

Publications

Phillips, M. & St. John, M. (2014). *The Dynabook Project: An engineering approach to research and development of an educational innovation*. http://inverness-research.org/abstracts/ab2014-06_Rpt-Dynabook_FinalAll_07-14.html

Inverness Research. (2014). *The Community Science Workshop Network story - Becoming a networked organization*. http://inverness-research.org/abstracts/ab2014-02_Rpt_CSW-Network-CaseStudies_032414.html

Inverness Research. (2014). *Algebra Project DRK-12 cohorts - demonstration project – Summative Evaluation Report*. http://inverness-research.org/abstracts/ab2014-04_Rpt_AP-CohortSummEval_01-2014.html

Carroll, B., Phillips, M. & St. John, M. (2012). *Voices of the AMSP: The Appalachian Mathematics and Science Partnership Conference Monograph*. http://inverness-research.org/abstracts/ab2012-11_Rpt_AMSP-voices-monograph_09-2012.html

- Helms, J., Mitchell, H., Phillips, M., St. John, M. (2012). *Family Engineering for families of elementary-aged children: A review of the potential impact*. http://www.inverness-research.org/abstracts/ab2012-07_Rpt-FamilyEngineering-SummEval_07-2012.html
- Stokes, L. & Phillips, M. (2012). *Research-based communication to policy as a strategy for science education improvement: The case of the Strengthening Science Education in California Initiative's High Hopes-Few Opportunities Report*. http://inverness-research.org/abstracts/ab2012-04_Rpt-SSEC-CaseStudy-042412.html
- Phillips, M., Smith, A. (2011). *The STEM Stories Project: Challenging stereotypes and inspiring young girls through online explorations of the lives and work of women in STEM fields*. http://www.inverness-research.org/abstracts/ab2011-01_Rpt_STEMStoriesFinalEval_08-2012.html
- Helms, J., Phillips, M., & St. John, M. (2011). *Co-evolution of research and practice: Lessons learned from the Learning Progression Modeling Project*. http://www.inverness-research.org/abstracts/ab2011-09_Rpt_LearningProgressions_02-2012.html
- Phillips, M., St. John, M. (2010). *Communicating Ocean Sciences to Informal Audiences: Final Evaluation Report and Case Studies*. Available: http://inverness-research.org/abstracts/ab2010-06_Rpt-COSIA-final-eval-rpt.html
- Phillips, M., Ramage, K., & St. John, M. (2010). *Maya Skies External Evaluation Report*. Available: http://inverness-research.org/abstracts/ab2010-08_Rpt_MayaSkiesExternalEval-final.html
- Helms, J., Phillips, M., & St. John, M. (2010). *National Center for Engineering and Technology Education: Review of NCETE's research initiative*. http://inverness-research.org/abstracts/ab2010-09_Rpt_NCETE_ResearchReviewFinalReport.html
- The Nanoscale Informal Science Education (NISE) Network Evaluation http://www.inverness-research.org/abstracts/ab2009-05_Rpt_NISEnet-Evaluation.html, May 2009
- Atkin, J.M., Bullitt, M., Chatman, L., Nielson, K., Phillips, M., Strauss, E., & Tanner, K. (2009). *Girls in Science: A Framework for Action*. National Science Teachers Association (NSTA).
- St. John, M., Robles, D., & Phillips, M. (2009). *DragonFly TV: Investigating the Nanoworld*. Available: http://inverness-research.org/abstracts/ab2009-04_Rpt_DragonflyTV-Nanoworld-SumEval.html
- St. John, M., Helms, J. Phillips, M., Castori, P., Hirabayashi, J. (2009). *The NISE Net Evaluation Report*. Available: http://inverness-research.org/abstracts/ab2009-05_Rpt_NISEnet-Evaluation.html
- Phillips, M., Finkelstein, D., & Wever-Frerichs, S. (2007). *School Site to Museum Floor: How Informal Science Institutions Work With Schools*. *International Journal of Science Education*. Oxen, UK: Routledge.

Ball, T., Crain, R., DeWitt, J., Phillips, M. & Tran, L. (2006). *Museums and Schools: Crossing Boundaries and Making Spaces Between Public Education Institutions*. Paper presented at the annual meeting of the American Educational Research Association (AERA). San Francisco, CA. April 2006.

Finkelstein, D., Bell, J., Broun, S., Fait, H., Gutwill, J., Hsi, S., Phillips, M. (2005). *The Exploratorium's Explainer Program: Results from a Longitudinal Study*. Report Submitted to Koret Foundation. San Francisco, CA: Exploratorium.

Phillips, M. (2005). Ongoing Research on Informal and Museum Learning. *Museum Education Monitor*. December 2005.

Phillips, M. (2002). Is 'Same' Treatment 'Fair' Treatment? In Shulman, J. (Ed.) *Using Assessment in Teaching for Understanding: A Casebook for Educators*. New York, New York: Teachers College Press.

Synergistic Activities

EvalFest. External evaluator for the Bay Area Science Festival as part of the nation-wide Science Festival Alliance (2014-present).

KQED Pre-K Media Lab. External evaluator for KQED's effort to support pre-school providers in their use of media as effective educational tools. (2010).

PBS Raising Readers: Preparing Preschoolers for Success (Ready To Learn Initiative). External evaluator for PBS' six-week online course for homecare preschool providers. (2010)

Communicating Ocean Sciences to Informal Audiences (COSIA). Coordinator and lead researcher for ongoing evaluation of program implemented by Lawrence Hall of Science at the University of California, Berkeley, consisting of seven sites, each of which partners an institution of higher education with an aquarium. (2006-present)

Center for the Advancement of Informal Science Education (CAISE). Researcher for evaluation of an NSF-funded national center, which seeks to both advance the informal science education field and strengthen NSF's funding policies (2006 - present)

Twin Cities Public Television. Advisor for *DragonFly TV* and *SciGirls TV* programs, aimed at middle school students. (2006-present)

Twin Cities Public Television. Evaluator for *DragonFly TV: Investigating the Nanoworld* series.

Collaborations

Aquarium of the Pacific	David Bader, Emily Yam
City University New York	Hubert Dyasi, Gary Benensen
Exploratorium	Rob Semper, Bronwyn Bevan, Sherry Hsi, Lynn Rankin
Golden Gate Bridge District	Denis Mulligan, Mary Currie
Kings College London, London, UK	Justin Dillon, Paul Black
KQED, San Francisco	Robin Mencher, Nancy Yamamoto, YoAnn Martinez
Lawrence Hall of Science, UC Berkeley	Rena Dorph, Craig Strang, Catherine Halverson, Lynn

	Tran, Darrell Porcello
Monterey Bay Aquarium, Monterey, CA	Rita Bell
Montshire Museum of Science	David Goudy, Greg DeFrancis
San Francisco State University, Biology Dept.	Kimberly Tanner
Scripps Institute of Oceanography	Eric Simms, Jessica Carilli
SRI International	Barbara Means, Jeremy Roschelle, Carlin Llorente, Ann House
Stanford University	Jonathan Osborne, J. Myron Atkin, Rich Shavelson
Twin Cities Public Television	Richard Hudson
Virginia Beach Aquarium	Karen Burns
Vanderbilt University	Rich Lehrer, Leona Schauble