

Pier Sun Ho

Curriculum Vita

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Education

Ph.D. in Educational Studies, Science Education
expected August 2006

University of Michigan
Ann Arbor, MI

- *Dissertation*: Exploring the use of educative curriculum features supporting the teaching of scientific explanations
- *Committee*: Nancy B. Songer (Chair), Helen Harrington, Barry J. Fishman, and Priti Shah
- *Research Summary*: Developed a set of educative curriculum features for teacher enacting an inquiry-oriented biodiversity curriculum specifically supporting the teaching of scientific explanation building. Through a qualitative study of teacher enactment including observations, interviews, and a quantitative assessment of student outcomes, examined the influence of educative features on teacher practice and student learning.

M.S. in Ecology and Evolutionary Biology
expected August 2006

University of Michigan
Ann Arbor, MI

M.A. in Educational Administration
April 2006

University of Michigan
Ann Arbor, MI

M.A.C. in Science Education
August 1996

University of Michigan
Ann Arbor, MI

S.B. in Biology
May 1994

Massachusetts Institute of Technology
Cambridge, MA

Research Experience

2002-Present

University of Michigan

Graduate Student Research Assistant. *BioKIDS: Kids Inquiry of Diverse Species Project*

Developed and revised curricular interventions and associated assessments in three science areas: biodiversity, weather, and simple machines. In conjunction with the three curricular units, designed and enacted a series of professional development sessions to support teachers' inquiry-based practice. Primary Investigators: Nancy Butler Songer and Phillip Myers (Ecology and Evolutionary Biology)

Summer 2000
Assessment Analyst

Westwood Public Schools

Analyzed district standardized test results and presented recommendations for curriculum mapping revisions in K-12 science.

Award

Rackham Merit Fellow
1995-1996

Horace H. Rackham Graduate School
University of Michigan

This fellowship supports underrepresented minority students who show promise in their field. Application by departmental recommendation only.

Teaching/Classroom Experience

Winter 2006

University of Michigan

Intern, *Education 528: Teaching Elementary School Science*

Interned and taught several lessons focused on the technology in the classroom for elementary Masters of Arts with Certification students as part of the their science methods course.

Fall 2003

University of Michigan

Co-Instructor, *Education 307: Practicum for Secondary Science Methods*

Co-taught the practicum section for a Master of Arts with Certification (MAC) science methods course. Course emphasized development of inquiry lessons and revision of lesson plans aligned with NRC National Science Education Standards and discussion around issues in students' pre-service placements.

2002-present

Detroit Public Schools

Teaching Consultant for Fifth and Sixth Grade Science Teachers

Detroit, MI

Assisted in teachers' enactment of inquiry-based science curricula.

2002-present

Detroit Public Schools

Professional Development Instructor

Detroit, MI

Assisted in coordinating and instructing professional development for participating Detroit Public School teachers for summer and monthly Saturday workshops.

2000-2002

Thurston Middle School

Professional Development Workshop Instructor

Westwood, MA

Developed and taught professional development workshop *Teaching with Technology* for Thurston Middle School faculty.

1997-2002

Seventh Grade Science and Mathematics Teacher

Westwood Public Schools

Westwood, MA

Taught four sections seventh grade Integrated Science, and one section seventh grade Pre-Algebra., ran the after-school Technology Club, and faculty representative of the School Improvement Committee.

1996-1997

Eighth Grade Earth Science Teacher

Newton Public Schools

Newton, MA

Taught five sections of eighth grade Earth Science.

Publications

Sun Ho, P., & Songer, N. B. (in preparation). Examining the Development of Students' Hypotheses and Predictions Across Three Inquiry-Oriented Curricula. To appear in *The Proceedings of the Annual International Conference of the National Association for Research in Science Teaching (NARST)*

Liao, J., Hodge, C., Meyer, D., Ho, P. S., Rosenspire, K., and Schwartz, J. (1997). Growth hormone regulates ternary complex factors and serum response factor associated with the c-fos serum response element. *Journal of Biological Chemistry*, 272(41) 25951-25958.

Presentations

Sun Ho, P. & Songer, N.B. (upcoming April 2006). *Examining the Development of Students' Hypotheses and Predictions Across Three Inquiry-Oriented Curricula*. Paper presented at the National Association for Research in Science Teaching (NARST) annual international conference. San Francisco, CA.

Songer, N.B., & Sun Ho, P. (2005) *Fidelity of Implementation in Three Sequential Curricular Units*. Paper presented at the American Educational Research Association (AERA) annual meeting. Montreal, Canada.

Service

American Educational Research Association (AERA)

Conference Proposal Reviewer for Annual Meeting

2004 & 2005

National Association of Research In Science Teaching (NARST)

Conference Proposal Reviewer for Annual Meeting

2004 & 2005

Reviewer for Journal of Research in Science Teaching (JRST)

2005-present

Grants

2005

Spencer Mini-Grant

Funds to support research related expenses (\$1400)

The Spencer Foundation

2004

Rackham Discretionary Funds Grant

Funds to support research related expenses (\$1200)

University of Michigan

2005, 2006

Rackham Travel Grant

Funds to support travel related to research (\$400/year)

University of Michigan

2004, 2005, 2006

School of Education Travel Grant

Funds to support travel related to research (\$300/year)

University of Michigan

Professional Associations

American Educational Research Association (AERA)

National Association for Research in Science Teaching (NARST)

International Society of the Learning Sciences (ISLS)

National Science Teachers Association (NSTA)