



College of Education, Health, & Human Services

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Aeran Choi, Ph.D

Assistant Professor

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Education

Ph.D., Science Education

2008

University of Iowa, Iowa City, Iowa

Dissertation: A Study of Student Written Argument Using the Science Writing Heuristic Approach in Inquiry-Based Freshman General Chemistry Laboratory Classes

Dissertation Advisor: Dr. Brian Hand & Dr. Robert Yager

M.Ed., Science Education

1993

Ewha Womans University, Seoul, Republic of Korea

Thesis: Development and Application of the Inquiry-Oriented Lesson Plan for High School Chemistry

B.S., Chemistry Education

1991

Ewha Womans University, Seoul, Republic of Korea

Higher Education Work Experience

Assistant Professor

2008 - present

Kent State University, Kent, Ohio

Science Education

Professional Development Consultant

2008 - 2008

Mt. Vernon Elementary School, Mt. Vernon, Iowa

Co-teacher

2007 - 2008

University of Iowa, Iowa City, Iowa

Science Education

Research Assistant

2003 - 2008

University of Iowa, Iowa City, Iowa

Department of Science Education

Program Coordinator University of Iowa, Iowa City, Iowa <i>Korean Elementary Science Teacher Workshop</i>	2003 - 2006
Teacher Researcher Jung-Wha High School, Seoul, Korea <i>Implementation of Inquiry-Based Teaching and Learning Science</i>	1992 - 1993
Assessment Tool Developer Ewha Womans University, Seoul, Korea <i>Department of Science Education-Assessment of Student Ability of Science Inquiry</i>	1991 - 1992

Other Professional Experience

Editorial Board Member Korea <i>Journal of Korean Chemistry Education</i>	2002 - 2002
Full-Time Science Teacher Seoul, Republic of Korea <i>Integrated Science & Chemistry</i>	1992 - 2002

Publications

Yager, R., Choi, A., Yager, S., & Akcay, H. (2009). Comparing Science Learning among 4th, 5th, and 6th Grade Students: STS Perspectives versus Textbook Based Instruction. <i>Journal of Elementary Science Education (issue #2(May), 2009)</i> . Publication:	2009
Hand, B. & Choi, A. (Jan, 2009). Writing in Classroom Science. In W-M. Roth & K. Tobin. (Eds.), <i>The World of Science Education: Handbook of Research in North America</i> . Rotterdam: SensePublishers. Publication:	2009
Choi, A., Notebaert, A., Diaz, J., & Hand, B. (2008). Examining arguments generated by Year 5, 7, and 10 students in science classrooms. <i>Research in Science Education</i> . On line publication date: Nov 5, 2008. Publication:	2008
Aeran Choi, Myeong-Kyeong Shin, Byung-Hoon Chung, & Robert Yager. (2006). Research Participation as a Professional Development Program for Teachers from Science High Schools: A New Idea for Professional Development. <i>Proceedings: NAESA Conference (Science & Technology Literacy in the 21st Century: Joint North American European & South American Symposium) Volume I</i> , 188-199. Publication:	2006

Myoung-hwan Kim, Myeong-Kyeong Shin, Aeran Choi, & Robert Yager. (2006). Teacher Doing Science: Research Experiences in Labs and Fields. *Proceedings: NAESA Conference (Science & Technology Literacy in the 21st Century: Joint North American European & South American Symposium)* Volume I, 262-271. 2006

Publication:

Presentations

Choi, A., & Hand, B. (2009, January). *Stimulating Students Critique of Claims and Evidence in 5th Grade Elementary School* International Conference of the Association for Science Teacher Education, Hartford, Connecticut. 2009

Type:

Yore, L. D., Tippett, C. D., Anthony, R. A., Choi, A., Hand, B., & Norton-Meiers, L. (2009, January). *Professional development for science literacy Writing and reading in service of learning science*. International Conference of the Association for Science Teacher Education, Hartford, Connecticut. 2009

Type:

Nam, J., Kwak, K., Jang, K., Choi, A., & Hand, B. (2009, January). *Impacts of the Science Writing Heuristic (SWH) approach on 8th grade science classrooms in Korea*. International Conference of the Association for Science Teacher Education, Hartford, Connecticut. 2009

Type:

Nam, J., Hand, B., Go, M., & Choi, A. (2009, August). *The Impacts of the Inquiry-Based General Chemistry Laboratory Investigations using the Science Writing Heuristic (SWH) Approach on College Students Achievements*. International Conference of European Science Education Research Association, Istanbul, Turkey. 2009

Type:

Choi, A., & Hand, B. (2008, January). *Critical Pedagogy for Implementing Student Argument in Inquiry-based Science Classroom*. International Conference of the Association for Science Teacher Education, St. Louis, MO. 2008

Type:

Choi, A., Hand, B. & Greenbowe, T. (2008, April). *Examining Students Scientific Arguments as a consequence of Inquiry-Based Chemistry Experiences*. Annual International Conference of National Association for Research in Science Teaching, Baltimore, MD. 2008

Type:

Hand, B., Choi, A., Greenbowe, T., Schroeder, J., & Bennett, W. (2008, April). *Examining the impact of student use of multiple-mode representations in constructing scientific arguments*. Annual International Conference of National Association for Research in Science Teaching, Baltimore, MD. 2008

Type:

Choi, A., Shin, M., & Yager, R. (2007, January). *The Impact of the Iowa Research Participation Program on Teacher Practice*. International Conference of the Association for Science Teacher Education, Clearwater, FL. 2007

Type:

Choi, A., Hand, B., & Greenbowe, T. (2007, August). *Scientific argument exhibited by students using the Science Writing Heuristic format for laboratory notebooks*. American Chemical Society National Meeting, Boston, MA. 2007

Type:

Choi, A., Notebaert, A., Diaz, J., & Hand, B. (2007, August). *Examining Structure of Science Argument Generated From the Science Writing Heuristic Approach Across Year 7 and 10 Student*. International Conference of European Science Education Research Association, Malmö, Sweden. 2007

Type:

Choi, A., Jung, B., & Yager, R. (2006, April). *Customized Professional Development Program for Teachers from Gifted Science/Math Schools*. North American-European and South American Symposium on Science and Technology Education, Richmond, VA. 2006

Type:

Choi, A., & Shin, M. (2006, October). *Iowa Research Participation Program (IRPP) for Teachers from Science High Schools in Korea*. Annual Convention of School Science and Mathematics Association, Missoula, MT. 2006

Type:

Service

Reviewer, National Association for Research in Science Teaching Conference - present

Proposal Reviewer for National Association for Research in Science Teaching Conference

Type: *National*

Reviewer, Association for Science Teacher Education - present

Proposal Reviewer for International Conference for the Association for Science Teacher Education

Type: *International*



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