

TINA VO

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EDUCATION

- PhD** ***Educational Studies*** University of Nebraska-Lincoln, Lincoln, NE
Area of Specialization: Teaching, Curriculum, and Learning-STEM Education; Spring 2018
- MS** ***Science Education***, University of Iowa, Iowa City, IA
Thesis: *A middle school science teacher's integration of technology with the science writing heuristic: A case study*; December 2013
- BA** ***Elementary Education, Middle Level Teacher Education***, Illinois State University, Normal, IL
Endorsements in Science, History, and English; Fall 2007

GRANTS & AWARDS

- Sandra K. Abell Scholar** (2017) - Awarded by the National Association of Research in Science Teaching towards mentoring and supporting young scholars towards developing their research agenda
- CADRE Fellow** (2016-2017) - Awarded by the Community for Advancing Discovery Research in Education towards building promising early career researchers
- Newman Dissertation Research Travel Grant** (2016-2017) Awarded to support international collaborations- College of Education and Human Sciences, \$3,120
- Herbert Brownell Fellowship** (2016) Awarded for a record of accomplishment in science education- Department of Teaching Learning & Teacher Education, \$2000
- Rosalie W. Farley Fellowship** (2016) Awarded for a 'focus on' and 'dedication to' elementary education- Department of Teaching Learning & Teacher Education, \$575
- Grant for Graduate Student Participation in Professional Conferences** (2014-2016), \$350/yr
- Audrey Qualls Travel Award** (2011-2013), \$500/yr

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Nebraska-Lincoln & University of Iowa,
Summer 2013 to present

Works with Dr. Cory Forbes, Science Literacy Director & Associate Professor, Science Education

Conducting research with the MoHSES project focusing on teachers conceptions of scientific modeling and the hydrological cycle while using the FOSS water curriculum, including all duties as assigned

- Composes written documentation of findings/ results suitable for peer-review and publication
- Presents and disseminates research at local, national, and international conferences
- Reviewed and improved upon instruments and protocols within the MoHSES project
- Organized, communicated, and coordinated with teachers to collect data on multiple projects over multiple years
- Collected observational data from classrooms and conducted interviews with teachers

- Designed and created deliverables for the project; teacher lesson plans and student packets
- Planned and participated in a recurring summer professional development opportunity for teachers to increase their content knowledge and pedagogical knowledge around water movement on earth systems
- Formulated and conducted research around NE WETs, a project designed to help elementary teachers develop students' understanding of water
- Developed a multi-day professional development program to increase teachers' knowledge around water and enhance their knowledge about different pedagogical strategies used

Graduate Research Assistant, University of Iowa,

Fall 2011- Summer 2013

Worked with Dr. Brian Hand, Professor, Science Education & Dr. Soonhye Park, Science Education supporting research and dissemination while expediting project goals

- Arranged and redistributed large collections of data, working closely with project programmer to ensure accessibility
- Created an online survey tool to collect data in manageable forms for organization
- Coded and analyzed qualitative data sets, writing up findings for other group members
- Conducted and presented work around research projects focused on argumentation

TEACHING EXPERIENCE

Graduate Teaching Assistant, Instructional Technology, University of Nebraska, Lincoln, NE

Fall 2016

- Adapted a course and assignments for undergraduate elementary educational majors to engage in technology and standards around various content areas
- Assisted in developing assignments, readings, and technology oriented portfolios focused on students' demonstration of technological competence
- Evaluated students' written work and performance through the semester
- Explored and evaluated software, hardware, web technologies, and learning management systems to be used within the course by multiple instructors

Graduate Teaching Assistant, Elementary Science Methods, University of Nebraska, Lincoln, NE

Fall 2015, Spring 2016, & Spring 2015

- Revised and developed a course and assignments for undergraduate elementary education majors to engage in science content, standards, and pedagogy
- Guided, organized, coordinated, and evaluated science clubs within after school programs and museum outreach, to help preservice teachers develop experiences teaching science to elementary students
- Assisted in developing assignments, readings, and rubrics to orient elementary preservice teachers with science content, standards, and pedagogy
- Evaluated students' written work and performance through the semester
- Assisted in data collection around pre-service teachers ideas about the nature of science

Information Technology Specialist within the College of Education, University of Iowa,
Fall 2011- Summer 2013

Worked with Wayne Kintz, Senior IT Support Consultant, Education Technology Center

- Assisted in exploring larger lecture transformation among different colleges within the university through the use of various technologies including TILE classrooms
- Tested and assessed different technological proposals suggested by faculty and staff
- Ran undergraduate and faculty workshops focused on using new technology
- Ran desktop support and troubleshooting for graduate students, staff, and faculty
- Tested and assessed different server and data storage options for the University
- Assisted with hardware and software installation and testing for staff and faculty
- Maintained check out laptops including laptops running exclusive assistive technology, 30 unit iPad Carts, and general lab computers

5-6 Science/Math Instructor, Willowwind School, Iowa City, IA

Fall 2009- Spring 2011

- Followed and developed curriculum for a mixed class of 5th and 6th-grade students; Emphasized interconnection of math and science
- Established relationships with external resources, bringing in guest speakers and organizing field trips centered around science
- Facilitated science/invention fair focused on science development and design, organizing student and parent judging pools and prizes
- Supported the math fair as students explored more abstract math concepts appropriate to their age level

Elementary Science Summer Program Developer and Instructor, Willowwind Camp, Iowa City, IA
Summer 2009 & 2010

- Created and implemented science activities aligned with Iowa State Standards
- Prepared Lessons to engage 1-3 graders and 4-6 graders in science
- Guided students in creation of their science experiments to be presented at the end of session science fair

Before/After School Director, Willowwind School, Iowa City, IA

Fall 2008- Fall 2011

- Hired, scheduled, and managed ~ 20 undergraduate workers to work the after school program
- Ran in-service training for employees focusing on different aspects of school culture appropriateness around students, speaking with parents and teachers, developing activities, chants, and songs, rules and procedures
- Generated and ran activities for students as well as reviewed and approved activities made by employees

Middle School Teacher, Tremont Middle School, Tremont, IL
Spring 2007- Spring 2008

- Used Illinois State Standards to develop and implement lesson plans dealing with Science and History for the 7th grade
- Teamed with an English and Math Teacher to create cross-cutting lesson plans that would include all the essential subject matter

Camp Greenwood Program Director, Buffalo, MN

Summer 2008

- Developed and implemented camp program aligned Girl Scout core doctrine
- Hired, trained, and managed 30 camp counselors in programming focused on outdoor skills

PUBLICATIONS

- Zangori, L., **Vo, T.**, Forbes, C. T., & Schwarz, C. V. (in review). Supporting 3rd-grade students model-based explanations about groundwater: A quasi-experimental study of a curricular intervention. *International Journal of Science Education*.
- Sable J., Forbes, C.T., Dauer, J., **Vo., T.**, Alred, A. (accepted 2017). Undergraduate students' scientifically-informed decision-making about socio-hydrological issues. *Journal of College Science Teaching*.
- Vo, T.**, Forbes, T. C., Zangori, L., & Schwarz, V.C. (2015). Fostering third grade students' use of scientific models with the water cycle: Elementary teachers' conceptions and practices. *International Journal of Science Education*. doi: 10.1080/09500693.2015.1080880
- Forbes, T.C., **Vo, T.**, Zangori, L., & Schwarz, V.C. (2015) Using models scientifically: Scientific models help students understand the water cycle. *Science and Children*.

PRESENTATIONS

- Vo, T.**, Forbes, C. T., Zangori, L., Schwarz, C.V (2017). *Exploring elementary teachers' conceptualizations and practices around model-based instruction of the water cycle: A three-year longitudinal multi-case study*. Paper to be presented at the 2017 Annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
- Vo, T.**, Forbes, C., Zangori, L., Schwarz, C. (2017) *A 3 Year Longitudinal Multi-case Study Exploring Three Elementary Teachers' Model-based Science Instruction about Water*. Paper to be presented at the NARST 2017 Annual International Conference, San Antonio, TX.
- Vo, T.**, Forbes, C., Zangori, L., Schwarz, C. (2017) *Comparing 3rd and 5th Grade Students' Model-Based Explanations about Water*. Paper to be presented at the NARST 2017 Annual International Conference, San Antonio, TX.
- Vo, T.** (2017 January) *Exploring preservice elementary teachers' technological choices around scientific modeling: A case study*. Paper presented at Association for Science Teacher Education (ASTE) International Conference.
- Vo, T.** & Forbes, C.T. (2016, October) A mixed methods comparison of elementary students' conceptualizations around modeling the water cycle. Poster submitted to STEM Education Research Retreat, Lincoln, NE.

- Vo, T.** (2016). Games and Simulations: Leveraging their use in Science Education. Presentation at Gen Con 2016, Indianapolis, IN.
- Sabel, J.*, **Vo, T.***, Alred, A., Dauer, J., & Forbes, C. (2016 April). *Undergraduate students' scientifically-informed decision-making about water-based socioscientific issues*. Poster submitted to the 2016 annual meeting of the National Association of Research in Science Teaching (NARST), Baltimore, MD. *Shared first authorship.
- Vo, T.**, Forbes, C. T. (2016 April). *Learning to support students' model-based Learning about the water cycle: A three-year longitudinal case Study of two 3rd-grade teachers*. Paper presented at the NARST 2016 Annual International Conference, Baltimore, MD.
- Zangori, L., **Vo, T.**, Forbes, C.T., Schwarz, C.V. (2016 April). *Exploring links between 3rd-grade students' model-based explanations and teachers' model-based science instruction about groundwater*. Paper presented at the NARST 2016 Annual International Conference, Baltimore, MD.
- Vo, T.**, Mercury, K.H. (2015). Making space for games and game design: Mods and add-ons for educational learning environments. Presentation at Gen Con 2016, Indianapolis, IN.
- Vo, T.**, Forbes, C.T., Barnhart, T., (2015, October) Supporting Student's Learning about water: Model-Based Scientific Inquiry. Presentation at the Nebraska Academy of Sciences' Fall Conference, Omaha, NE.
- Forbes, C.T., **Vo, T.**, Scharz, C.V., Zangori (2015 April). *Supporting third-grade students' model-based explanations about the water cycle: A quasi-experimental study of a curricular intervention*. Paper presented at the AERA 2015 Annual Meeting, Chicago, IL.
- Vo, T.**, Forbes, C. T., Zangori, L., Schwarz, C.V (2015 April). *Exploring elementary teachers' conceptualizations and practices around model-based instruction of the water cycle*. Paper presented at the AERA 2015 Annual Meeting, Chicago, IL.
- Forbes, C.T, Zangori, L., Schwarz, C.V., **Vo, T.**, (2015 April). *Studying the impact of a design intervention on 3rd grade students model-based explanations for water systems*. Paper presented at the NARST 2015 Annual International Conference, Chicago, IL.
- Vo, T.**, Forbes, C. T., Zangori, L., Schwarz, C.V (2015 April). *Exploring elementary teachers' practices for model-based science instruction about the water cycle*. Paper presented at the NARST 2015 Annual International Conference, Chicago, IL.
- Forbes, C. T., Schwarz, C.V., **Vo. T.**, Zangori, L. (2015, March). *Using models to support elementary students' learning about water*. Presentation at the NSTA 2015 Annual Meeting, Chicago, IL.
- Vo, T.**, Forbes, C. T., Schwarz, C.V., (2014, October). *Fostering 3rd grade students' use of scientific models with the water cycle: Elementary teachers' conceptions and practices*. Presentation at the GSA Annual International Conference, Vancouver, BC.
- Vo, T.**, Forbes, C. T., Schwarz, C.V., Zangori., L. (2014, April). *Elementary teachers conceptions and practices: Fostering students' use of scientific models with the water cycle*. Stand-alone paper presented at the NARST Annual International Conference, Pittsburg, PA.
- Park, S., Suh, J., Seo, K. & **Vo, T.** (2013, April). *Development and validation of a survey measure of secondary teachers' topic specific PCK*. Paper presented at the NARST Annual International Conference, Rio Grande, Puerto Rico.
- Vo, T.** (2013, May) *Fear is the question killer: How to provide positive IT customer service*. Presentation presented at the annual U Iowa Tech Forum, Iowa City, IA.

Vo, T., Chanlen, N., & Hand, B. (2013, April). *Comparing RTOP teachers' scores within the SWH framework: Trends and themes*. Poster presented at The University of Iowa Department of Teaching and Learning Research Symposium, Iowa City, IA.

ACADEMIC, PROFESSIONAL, AND COMMUNITY SERVICE

2016-present College of Education and Human Sciences Technology Committee- Grad Student Rep.
2016-present Consultant for the Sheldon Art Museum STEAM; outreach program
2015-present NARST reviewer Strand 2, 3, 12, and NARST sponsored NSTA sessions
2015-present Educational Outreach Volunteer at Morrill Hall, University of Nebraska State Museum
2015-present Member of DBER group: STEM Ed seminars (Nebraska-Lincoln)
2015-2017 Evaluator, undergraduate preservice teachers' 'Capstone Projects'
2015 Facilitated a graduate student roundtable for mentoring teaching assistants
2015 STEM outreach exhibitor- games in STEM, Nebraska State Fair
2013-2014 Teen Mentor, West High School, Colors Program
2011-2014 Graduate Student Executive Committee member
2011-2013 Judge, State Science and Technology Fair of Iowa
2010 Judge, Odyssey of the Mind, Iowa District
2009-2013 Girl Scout troop leader, Daisy, Brownie, and Junior Troops

PROFESSIONAL MEMBERSHIPS

2014-present American Educational Research Association AERA
2013-present National Science Teachers Association NSTA
2012-present National Association for Research in Science Teaching NARST
2011-present Association for Science Teacher Education ASTE
2013-2015 Geological Society of America GSA
2011-2014 Ulowa IT Support Community for Instructional Technology
2006-2008 Association for Middle-Level Education AMLE
2006-2008 International Society for Technology in Education ISTE