

**TRUDY C. GIASI, PH.D.**

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**EDUCATION**

The Ohio State University, Columbus, OH

**Ph.D. in Teaching and Learning - STEM Education**

**2018**

Dissertation: Post-Program Implementation of Integrated STEM Instruction in K-8 Urban Schools: A Qualitative Case Study

The Ohio State University, Columbus, OH

**M.A. in Educational Studies – Educational Administration**

**2018**

The Ohio State University, Columbus, OH

**M.Ed. in Science Education**

**2005**

The Ohio State University, Columbus, OH

**B.F.A. in Dance**

**2001**

**AWARDS**

Graduate Enrichment Fellowship

**2004 – 2005**

**LICENSES/CERTIFICATIONS**

State of Ohio Adolescence to Young Adult (7-12) Life Science Teaching License

State of Ohio Professional Principal (5-12) License

State of Ohio Computer Technology Endorsement (PreK-12)

State of Ohio Teacher Leader Endorsement (PreK-12)

Google Educator Level I Certification

Apple Teacher Certification

**TEACHING EXPERIENCE**

Southeast Missouri State University, Cape Girardeau, MO

**Assistant Professor – College of Education, Health and Human Studies**

**2018 – present**

Department of Leadership, Middle, and Secondary Education

Department of Elementary, Early and Special Education

The Ohio State University, Columbus, OH

**Graduate Teaching Assistant – Department of Teaching and Learning**

**2014-2015**

Field Supervisor for Secondary Science Pre-service Teachers

Ashland University, Ashland, OH

**Adjunct Instructor**

**2013**

Columbus City Schools, Columbus, OH

**Math and Science Leadership Specialist/8<sup>th</sup> Grade Science Teacher**

**2005-2012**

**COURSES TAUGHT**

EL300 – Assistive & Instructional Technology in a Universally Designed Learning Environment (EASE Dept)

EL360 – Integrated Math, Science, Social Studies and Health Instruction (EASE Dept)

SE320 – Techniques of Teaching Science (LMS Dept)

SE360 – Pedagogy II, middle school (LMS Dept)

SE600 – Multimedia in Education (LMS Dept)

SE380 – Advanced Field Experience (LMS Dept)

SE385 – Pedagogy III (LMS Dept)

**RELATED EXPERIENCE**

Jobs For the Future (JFF)/Texas Education Agency (TEA)

**Consultant for the Texas Education Agency - Department of STEM**

**2020 - present**

Ohio State School for the Blind, Columbus, OH

**Grant Program Manager**

**2017 – 2018**

21<sup>st</sup> Century Community Learning Center (21<sup>st</sup> CCLC) Grant Program – ESSA IVB Funded

The Ohio State University, Columbus, OH

**Project Coordinator/Graduate Research Associate -**

**2015 – 2018**

Engineering Is Elementary (EiE) – Ohio – Building 21<sup>st</sup> Century STEM/STEAM Learners Project  
**Graduate Research Associate/staff -** 2015 – present  
 Modeling Biology Instruction: Leaders in Science and Engineering (MoBILiSE) Project  
 Columbus City Schools, Columbus, OH  
**District K-8 Science/STEM Curriculum Coordinator** 2012 – 2017

#### PUBLICATIONS

Giasi, T. (2020). [A differentiated approach to professional learning](#). *ASCD EDAdvantage*.

Malone, K. M., Tiarani, V., Irving, K. E., Kajfez, R., Lin, H., Giasi, T., & Edmiston, B. W. (2018). Engineering design challenges in early childhood education: Effects on student cognition and interest. *European Journal of STEM Education*, 3(3), 11. <https://doi.org/10.20897/ejsteme/3871>

#### Contributions:

Texas Education Agency Department of College, Career, & Military Prep/STEM. (2020). *Texas STEM Education Toolkit*. <https://tea.texas.gov/academics/college-career-and-military-prep/texas-stem-education-toolkit>

Ohio Department of Education Office of Innovation. (2017). *A quality model for STEM and STEAM schools: Recommendations from the STEM Innovation Working Group*. <http://education.ohio.gov/getattachment/Topics/STEM-Science-Technology-Engineering-and-Mathem/Quality-Model-for-STEM-and-STEAM-Schools/Quality-Model-for-STEM-and-STEAM-Schools-12-18-2017.pdf.aspx?lang=en-US>

#### PRESENTATIONS/PROPOSALS ACCEPTED

- Gerard, J., & Giasi, T. (2020, November). *Witness the EDvolution: A Model for Empowering Educators with Future Ready Skills*. Virtual presentation at the International Society for Technology in Education - ISTE20 National Conference.
- Giasi, T. (2019, July). *If you can dream it, you can STEAM it! Incorporating STEAM into the classroom*. Presented at the Woodland R-IV Open PD Conference. Marble Hill, MO.
- Cwick, S., Bratberg, B., Powell, D., Smith, R., Clapsaddle, S., Lillo, S. & Giasi, T. (2019, February). *Restructuring of Teacher Education Program – Through the Building Block Model*. Presented at the Association of Teacher Educators Annual Meeting, Atlanta, GA.
- Cwick, S., Bratberg, B., Powell, D., Smith, R., Clapsaddle, S., Lillo, S. & Giasi, T. (2019, February). *Continuous Improvement - Through a Collaborative and Progressive Field Experiences*. Presented at the Association of Teacher Educators Annual Meeting, Atlanta, GA.
- Giasi, T. (2018, June). *Using dramatic inquiry to promote literacy in STEM teaching and learning*. Invited presentation to the Dell-EiE Symposium in Boston, MA.
- Giasi, T., Irving, K., Hardy, C., Schwaiger, C., Croft, N., & Snodgrass, J. (2018, January). *Using dramatic inquiry to promote literacy in STEM teaching and learning*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.
- Giasi, T., Irving, K., Hardy, C., Schwaiger, C., Croft, N., & Snodgrass, J. (2018, January). *A model for elementary STEM teaching, learning, and professional development using EiE*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.
- Tiarani, V., Giasi, T., Irving, K. E., Malone, K., & Kajfez, R. (2017, September). *The EiE-Ohio project year 2: Building 21<sup>st</sup> century learners*. Paper presented at the 2017 Mid-Atlantic Association for Science Teacher Education Regional Conference, Prestonsburg, KY.
- Giasi, T. (2017, July). *A K–8 model for STEM teaching, learning, and professional development using EiE*. Presented at the NSTA STEM Forum and Expo in Orlando, FL.
- Stammen, A., Giasi, T., Irwin, C., Henkalin, K., Lund, P., Irving, K. E., Sabree, Z., & Malone, K. (2017, January). *Scientific reasoning abilities of in-service science teachers in a biology modeling workshop*. A paper presented at the 2017 ASTE International Conference, Des Moines, IA.
- Giasi, T., & Malone, K. (2017, January). *EiE: Building 21<sup>st</sup> Century STEAM learners*. Presented at the Hawaii International Conference on Education (HICE) Conference in Honolulu, HI.
- Malone, K., Sabree, Z., Irving, K., Ding, L., Harper, K., Schuchardt, A., Kajfez, R., Stammen, A., Newman, K., Dorman, J., Giasi, T., Irwin, C., Lewis, S., Lund, P., Nagel, S., & Henkalin, K. (2017). *Modeling biology instruction-leaders in science and engineering*. Poster presented at 2017 National Science Foundation Conference: Multi-Scale Evaluation in STEM Education in Knoxville, TN.
- Irving, K. E., Malone, K., Tiarani, V., Giasi, T., Kajfez, R., & Heckler, A. (2017, January). *Engineering in elementary school: Building 21<sup>st</sup> century learners*. A paper presented at the 2017 ASTE International Conference in Des Moines, IA.
- Giasi, T., Bloom, A., & Mays, W. (2016, December). *EiE: Building 21<sup>st</sup> Century STEAM learners*. Presented at the National Science Teachers Association Regional Conference in Columbus, OH.
- Irving, K. E., Malone, K., Tiarani, V., Giasi, T., & Kajfez, R. (2016, September). *The EiE-Ohio project: Building 21<sup>st</sup> century learners in high needs elementary schools*. A paper presented at the 2016 Mid-Atlantic ASTE Regional Conference in Gatlinburg, TN.
- Stammen, A., Giasi, T., Irwin, C., Henkalin, K., Lund, P., Irving, K. E., Sabree, Z., & Malone, K. (2016, September). *Impact of a biology modeling workshop on the scientific reasoning: An analysis of in-service teachers' pre-test and post-test performance*. A poster presented at the 2016 Mid-Atlantic ASTE Regional Conference in Gatlinburg, TN. DOI:10.13140/RG.2.2.26204.69764
- Tiarani, V., Malone, K., Irving, K. E., Giasi, T., & Kajfez, R. (2016, September). *Elementary students' views about engineering and technology*. A paper presented at the 2016 Mid-Atlantic ASTE Regional Conference in Gatlinburg, TN. Did not attend.
- Tiarani, V., Malone, K., Irving, K. E., Giasi, T., & Kajfez, R. (2016, September). *"They fix stuff": Elementary students views about engineering and technology*. A paper presented at the 2016 Indonesia Focus Conference in Lexington, KY. Did not attend.
- Malone, K., Sabree, Z., Stammen, A., Irwin, C., & Giasi, T. (2016). *Exploring the Meselson-Stahl experiment using biology modeling instruction*. Workshop presented at the Center for Life Science Education (CLSE) Seminar Series in Columbus, Ohio. Did not attend.
- Giasi, T. (2016, January). *EiE: Building 21<sup>st</sup> Century learners*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.
- Malone, K., & Giasi, T. (2016, January). *Modeling biology instruction*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.

- Irving, K. E., Malone, K., Tiarani, V., Giasi, T., & Kajfez, R. (2015, October). *Engineering is elementary: Implementation in STEM, STEAM, and arts impact schools*. A paper presented at the 2015 Mid-Atlantic ASTE Regional Conference, Salt Fork, OH.
- Malone, K., Tiarani, V., Giasi, T., Irving, K. E., & Kajfez, R. (2015, October). *Engineering is elementary (EiE) and elementary teachers' scientific reasoning and self-efficacy*. A paper presented at the School Science and Mathematics Association (SSMA) Annual Convention in Oklahoma City, OK.
- Tiarani, V., Giasi, T., Irving, K. E., Malone, K., & Kajfez, R. (2015, October). *Elementary teachers' views about engineers and engineering*. A poster presented at the 2015 Mid-Atlantic ASTE Regional Conference in Salt Fork, OH.
- Grayson, N., Laughbaum, J., & Giasi, T. (2015, October). *Building STEAM in your school*. Presented at the Association for Middle Level Education Regional Conference in Columbus, OH.
- Giasi, T. (2015, January). *Preparing for 21<sup>st</sup> Century assessments*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.
- Giasi, T. & Taylor, T. (2014, January). *SEED: Student's exploring ecosystem dynamics - Building partnerships for learning*. Presented at the Science Educational Council of Ohio State Conference in Columbus, OH.

#### SCHOLARLY SERVICE

- Editorial Board Member - *Theory Into Practice* (TIP) Peer-reviewed Journal (2019-present)
- Manuscript Reviewer – *Theory Into Practice* (TIP) Peer-reviewed Journal (2017-present)
- Editor – *ASCD EDadvantage* (2019 – present)
- Manuscript Reviewer - *Forum for International Research in Education* (FIRE) (2019)

#### PROFESSIONAL ORGANIZATIONS/MEMBERSHIPS

- STEM Ecosystems – representative of Austin, Texas EcosySTEM (2019 – present)
- Association for Supervision, Curriculum and Development (ASCD) –Emerging Leader (2018-2020), Faculty Advisor of ASCD Teachers of Tomorrow student chapter at Southeast Missouri State University, *EDadvantage* Editor (2018-2020), member since 2017
- National Science Educational Leadership Association (NSELA) – Diversity Committee (2016-2018)
- National Science Teachers Association (NSTA) – District XI Director Nominee (2019), Program Coordinator – Regional Conference, Columbus OH (2016), Urban STEM Advisory Committee (2013-2016), member since 2005
- Association of Teacher Education (ATE) – member since 2018

#### COMPETITIVE GRANTS

- Giasi, T.; Ray, J., Cwick, S., Branch, K., & Turner, C. - ASCD Teach to Lead Summit (2018)

#### RESEARCH INTERESTS

Technology integration in pre-service education courses; STEAM integration models in PreK-12 schools; Engineering design and PBL in K-8 classrooms; Professional development; Arts integration

Current research:

Community of Partnership Program - Role (Co-PI). This project consists of a triad collaboration between Southeast Missouri State University (EL355/EL360 courses), the Glenn House (a historic landmark/museum), and Cape Girardeau Public Schools. The project involves the implementation of an integrated curriculum with local 4<sup>th</sup> grade students, development and implementation of aligned lessons created by Southeast pre-service teachers, and partnership with the Glenn House. (December 2019 – present)

#### ACADEMIC SERVICE

##### Southeast Missouri State University:

- Leadership, Middle, and Secondary Education Department
  - Program Coordinator – MAT STEM (Fall 2020 – present)
  - Dissertation Committee Member – 2 students in collaborative Ed.D. program (Spring 2020-present)
  - Search Committee – LMS Chair (Fall 2019 – present)
  - ASCD Teachers of Tomorrow Student Chapter Advisor (2019 – present)
  - Commencement Committee (2018 – present)
- Elementary, Early, and Special Education Department
  - Search Committee - EESE Exceptional Child Assistant Professor (2019-2020)
- College of Education, Health and Human Studies
  - Equity Committee (2020 – present)
  - Field Experience Committee (2019 – present)
  - Search Committee - EDvolution Center Coordinator (2019)
- University
  - Technology Committee (2018-2019)
- Related
  - Council of Adult and Experiential Learning Faculty Assessor (2020-present)
  - Science Fair Committee – in collaboration with College of STEM (2020 – present)
  - Auxiliary Club/Ember Winter Guard Advisor – SEMO student organization (2020 – present)

#### COMMUNITY SERVICE

- Conference Planning Committee Member – *Focus on Technology Conference* at UMSL (Fall 2020 – present)
- Consultant, Vincentian Marian Youth, Ste. Genevieve, MO (2020-present)
- SEMO Tech Consortium member, Southeast Missouri (2019-present)

Missouri Department of Elementary and Secondary Education MoGEA Content Advisory Committee, Jefferson City, MO (2019-2020)  
Drill designer and dance choreographer Hillsboro High School's Winter Guard (2019-present)  
Professional Development Provider, Woodland R-IV School District (2018, 2019)  
STEAM partnership with Jefferson ES/Cape Girardeau Public Schools – Teach to Lead Summit, programming development (2018)  
Ohio Department of Education Science Standards Revision Committee (2017-2018)  
Ohio Department of Education STEM Innovation Working Group (2016-2018)  
Network Regional Leader (NRL) - Ohio Department of Education, Central OH Division (2015-2018)  
Ohio Department of Education Science Content Advisory Committee for Ohio's State Assessments (2012-2018)  
Educational Advisory Board Member - COSI (Center of Science and Industry), Columbus OH (2015-2018)  
Education Advisory Board Member - Franklin County Metro Parks (2014-2018)

**ADVOCACY**

Member of the Austin, TX EcosySTEM - STEM Ecosystems were identified in a Dec 2018 federal report as the top strategy for improving STEM literacy, ensuring a strong workforce and global competitiveness for all, and an important means to support diversity, equity, and inclusion in a thriving STEM workforce. Attended the National STEM Learning Ecosystems Community of Practice (SLECop) Virtual Town Hall (1/5/21)  
Science Teachers of Missouri (STOM) Priority Standards Virtual Meetings/Feedback Sessions for DESE Science Priority Standards Draft (10/20/20)  
Staff – MoBILiSE (Modeling Biology Instruction: Leaders in Science and Engineering Project), Columbus, OH (2016 – present).