Curriculum Vitae

Michael Giamellaro

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EDUCATION

Ph.D. Educational Leadership & Innovation: Science Education, University of Colorado Denver

Dissertation: *Deep Immersion Academic Learning: An Analysis of Science Learning in Context*, Dr. Deanna Sands, Advisor. 2012.
http://digital.auraria.edu/AA00000087/00001

M.A. Science Curriculum and Instruction, University of Colorado, Denver. 2004.

B.S. Wildlife and Fisheries Biology, University of Wyoming, Laramie. 1997.

TEACHING & PROFESSIONAL EXPERIENCE

2012 – present **Assistant Professor of Science and Mathematics Education & Roundhouse Foundation Faculty Scholar of Science Education**
College of Education, Oregon State University/OSU-Cascades

Teach four to six graduate courses per year. Maintain a research program in contextualized science learning environments. Advise MAT students. Provide program support including curriculum oversight, admissions reviews, etc. Provide service to OSU, regional educational organizations, and professional organizations. Roundhouse Chair (since 2016) oversees effective use of $25,000 per year for research and outreach in science education.

Courses taught:

- ED 515: Learning Environments III: Cultures and Communities
- ED 531: Science Methods I: Inquiry & the Nature of Science
- ED 532: Science Methods II: Teaching for Conceptual Change
- ED 550: Effective Teaching Cycle I: Foundations & Planning
- ED 808: Teaching for Data Literacy I, II, and III
- SED 407: Intro to Science Education and Outreach
- SED 413/513/514: Inquiry in Science and Mathematics Education
- SED 511: Analysis of Classrooms I
- SED 515: Analysis of Classrooms II
- SED 553: Science Methods: Practicum I
- SED 573: Science Pedagogy & Technology I
- SED 577: Science Pedagogy & Technology II
- SED 599: Developing STEM Content into Project-Based Curricula

2010 – 2012	**Research Assistant**	LEARN Lab, University of Colorado Denver

Under the direction of Dr. Maria Ruiz-Primo, The NSF funded DEISA project looked at developing and evaluating instructionally sensitive assessments in elementary science curricula.

2009 – 2011	**Adjunct Instructor**	School of Education and Human Development, University of Colorado Denver

Taught *Grand Canyon Science,* an experiential, graduate teacher education field class in which pre-service and practicing teachers learned pedagogical content knowledge related to the geology and ecology of the Grand Canyon while rafting the Colorado River. Participants also received training in experiential, place-based education.

2007 – 2010	**Lead Educator (HS science teacher)**	The Watershed School, Boulder, CO.
2006 – 2007	**7th and 8th grade science teacher**	Packer Collegiate Institute, New York City
2005 – 2006	**Interim 8th & 12th grade biology teacher**	Friends Seminary, New York City
2003 – 2005	**MS and HS math/science teacher & advisor**	Center for Discovery Learning, Lakewood, CO
2002– 2003	**Teacher Intern**	Jefferson County Open School, Lakewood, CO
1997 – 2002	**Biologist**	U.S. Fish and Wildlife Service, Sybille Canyon, WY

PEER REVIEWED PUBLICATIONS

Siegel, D., Giamellaro, M. (*in review*). Defining STEM in a rural school district: A co-constructed and evolving process. Submitted to *Science Education.*

Giamellaro, M., O'Connell, K. (in review). Numbers in nature, math on the mountain: A teacher-scientist partnership to tell stories of place through data. Submitted to *Connected Science Learning.*

Francis, C.D., Newman, P., Taff, B.D., White, C., Monz, C.A., Levenhagen, M., Petrelli, A.R., Abbott, L.C., Newton, J., Burson, S., Cooper, C.B., Fristrup, K.M., McClure, C.J.W., Mennitt, D., Giamellaro, M., Barber, J.R. (2017*).* Acoustic environments matter: Synergistic benefits to humans and ecological communities. *Journal of Environmental Management.* 203:1, 245-254. http://dx.doi.org/10.1016/j.jenvman.2017.07.041

Giamellaro, M., Lan, M.-C., Ruiz-Primo, M.A., Li, M., Tasker, T. (2017). Curriculum mapping as a strategy for supporting teachers in the articulation of learning goals. *Journal of Science Teacher Education.* 28:4, 347-366. http://dx.doi.org/10.1080/1046560X.2017.1343603

Giamellaro, M. (2017). Dewey's yardstick: Contextualization as a crosscutting measure of experience in learning and education. *SAGE Open. 7:1, 1-11.* https://doi.org/10.1177/2158244017700463

Giamellaro, M. (2014). Primary contextualization of science learning through immersion in content-rich settings. *International Journal of Science Education, 36:17, 2848-2871*. DOI: 10.1080/09500693.2014.937787

Ruiz-Primo, M.A., Li, M., Wills, K., Giamellaro, M., Lan, M-C., Mason, H., Feehan, J., Orgeron, M., Sands, D. (2012). An approach for developing and evaluating instructionally sensitive assessments in science. *Journal of Research in Science Teaching*, 49:6, 691-712. DOI: 10.1002/tea.21030

PEER REVIEWED BOOK CHAPTERS

Giamellaro, M & Knapp, M. (*In Press, anticipated 2018*). STEM camp as symbiotic learning for rural middle schoolers and pre-service teachers. In Meidl, T.D. and Sulentic Dowell, M-M., eds*. Service-learning initiatives in teacher education programs*. Hershey, PA: IGI-Global.

PEER REVIEWED PROCEEDINGS

Giamellaro, M. (2017). *Crossing the River: Supporting Pre-service Science Teachers Across Two Cultures*. In D. Stroupe and H. Kang (Eds.), Proceedings of the Science Education at the Crossroads Conference. San Antonio, TX. [http://www.sciedxroads.org/Proceedings2017.html].

Giamellaro, M. (2015, October). *Pathfinder: Measuring Experiential Learning Through Network Modeling***.** Proceedings of the 2015 Symposium on Experiential Education Research (SEER), Portland, OR. [http://www.aee.org/seer].

Giamellaro, M. (2014) *Measuring situated learning.* In J. Settlage & A. Johnston (Eds.), Proceedings of the Science Education at the Crossroads Conference (pp. 36-37). Portland, OR. [http://www.sciedxroads.org/2014/2014Proceedings.pdf].

PEER REVIEWED NATIONAL/INTERNATIONAL PAPERS & PRESENTATIONS

Giamellaro, M. (2018, April). *Validation of an Instrument to Assess Levels of Contextualization Opportunities in Science Curricula.* Paper proposed for the American Educational Research Association annual meeting, New York, NY.

O'Connell, K.; Giamellaro, M.; Knapp, M. (2017, August). *Numbers in Nature, Math on the Mountain: Engaging teachers and students in understanding natural phenomenon using authentic ecological data.* Poster presented at the Ecological Society of America Annual Meeting, Portland, OR.

Giamellaro M., Siegel, D., Lopez, A. (2017, April). *STEM Coach as Facilitator of Connectivity in and Beyond a School District*. Paper presented at the NARST Annual International Conference, San Antonio, TX.

Siegel, D. & Giamellaro, M. (2017, April). *Defining STEM in a Rural School District: A Co-Constructed and Co-Evolving Process*. Paper presented at the NARST Annual International Conference, San Antonio, TX.

Giamellaro M., Siegel, D., Lopez, A. (2017, May). Impacts of a K-12 STEM Coach from Multiple Perspectives. Paper presented at the American Educational Research Association annual meeting, San Antonio, TX.

Giamellaro M., Siegel, D., Prevenas, P. (2016, January). *Teacher's Reactions to and Utilization of a STEM Coach.* Paper presented at the Annual International Meeting of the Association for Science Teacher Educators, Reno, NV.

Prevenas, P., Giamellaro, M. (2015, May) *The Engineering Design Process for K-3.* Presentation & Workshop at the NSTA STEM Symposium and Conference, Minneapolis, MN.

Prevenas, P., VanAstlyne, H., Giamellaro, M. (2015, May). *English Language Learners: Integrating STEM and the novel "Freak The Mighty".* Presentation & Workshop at the NSTA STEM Symposium and Conference, Minneapolis, MN, May 2015.

Giamellaro, M., Siegel D., Prevenas, P., Gess-Newsome, J., Garber, S., Fields, T., Kudlac, B., Baxter, J., Cloud, G., Dove, M., Goad, D., Danos, K., Little, N. (2015, January). *Implementing Inclusive STEM across a Rural K-12 District.* Experiential session that included other researchers and teachers involved in the project. Presented at the Annual International Meeting of the Association for Science Teacher Educators. Portland, OR, January 2015.

Giamellaro, M. (April, 2014). *Science learning and levels of contextualization*. Paper presented at the National Association for Research in Science Teaching annual international conference, Pittsburgh, PA. DOI: 10.13140/RG.2.1.1688.0482

Giamellaro, M. (2013, Sept.) *Student use of facilitated versus peripheral learning opportunities to develop conceptual science knowledge in contextualized, outdoor settings.* Paper presented at the European Science Education Research Association conference, Nicosia, Cyprus.

Giamellaro, M. (2013, April). *The role of the physical environment in contextualizing science learning.* Paper presented at the National Association for Research in Science Teaching annual international conference, Rio Grande, Puerto Rico.

Ruiz-Primo, M.A., Li, M., Birby, E., Edwards, A., Wang, T., Zhao, D.Y., Giamellaro, M. (2013, April). *Looking at quality of instruction and students' performance: Where do the teachers' questions come from?* Paper presented at the National Association for Research in Science Teaching annual international conference, Rio Grande, Puerto Rico.

Li, M., Ruiz-Primo, M.A. Wang, T., Giamellaro, M., Wills, K., Zhao, D.Y. (2013, April). *Comparing Item Formats of Instructionally Sensitive Assessments.* Paper presented at the National Association for Research in Science Teaching annual international conference, Rio Grande, Puerto Rico.

Giamellaro, M. (2012, April) *Using pathfinder networks to model conceptual change of students participating in field science classes.* Poster presented at the Symposium on Network Science in Biological, Social, and Geographic Systems. University of Wyoming, Laramie.

Giamellaro, M., Ruiz-Primo, M. A., Li, M. (2012, March) *Quality elementary science teaching as reflected in productive failure.* Paper presented at the National Association for Research in Science Teaching annual international conference, Indianapolis.

Giamellaro, M., Sands, D., Wills, K., Ruiz-Primo, M. A., Li, M. (2012, April). *Is this testing what was taught? Teachers' and students' perceptions of instructionally sensitive assessments.* Paper presented at the American Educational Research Association annual meeting, Vancouver, B.C.

Lan, M-C., Li, M., Ruiz-Primo, M.A., Wang, T., Giamellaro, M., Mason, H. (2012, April). *Linking quality of instruction to instructionally sensitive assessments.* Paper presented at the American Educational Research Association annual meeting, Vancouver, B.C.

Li, M., Lan, M-C., Ruiz-Primo, M.A., Giamellaro, M., Wang, T. (2012, March)*. Supporting students to make conceptual connections.* Paper presented at the National Association for Research in Science Teaching annual international conference, Indianapolis.

Li, M., Ruiz-Primo, M.A., Giamellaro, M., Wills, K. (2012, April). *Instructionally sensitive assessments across three science units.* Paper presented at the American Educational Research Association annual meeting, Vancouver, B.C.

Li, M., Ruiz-Primo, M.A., Giamellaro, M., Wills, K., M., Mason, H., Feehan, J. (2012, April). *Sensitivity and transfer of learning at different distances: Close, proximal and distal assessment items.* Paper presented at the American Educational Research Association annual meeting, Vancouver, B.C.

Mason, H., Ruiz-Primo, M.A., Giamellaro, M., Li, M. (2012, March) *What do students' science notebooks reflect about the quality of teaching students received?* Paper presented at the National Association for Research in Science Teaching, annual international conference, Indianapolis.

Ruiz-Primo, M. A., Li, M., Giamellaro, M., Wills, K., Mason, H., Lan, M-C, Sands, D. (2012, April) *Instructionally sensitive assessments and curricula characteristics: Learning goals, opportunities to achieve them, and opportunities to transfer them.* Paper presented at the American Educational Research Association, annual meeting, Vancouver, B.C.

Ruiz-Primo, M.A., Li, M, Giamellaro, M., Wills, K. (2012, April). *An approach to develop and evaluate assessments at different distances to a curriculum*. Paper presented at the annual meeting of the National Council on Measurement in Education, Vancouver, B.C.

Wang, T., Lan, M-C., Giamellaro, M., Zhao, D.Y., Birkby, D., Ruiz-Primo, M.A., Li, M. (2012, March). *Knowledge of learning goals as a navigation tool in curriculum implementation.* Paper presented at the National Association for Research in Science Teaching annual international conference, Indianapolis.

Giamellaro, M., Lan, M-C, Ruiz-Primo, M. A., Li, M., Tasker, T. (2011, April). *Mapping science curricula: A method for supporting teachers in the articulation of learning goals*. Paper presented at the American Educational Research Association annual meeting, New Orleans.

Giamellaro, M., Lan, M-C, Ruiz-Primo, M. A., Li, M. (2011, April). *Addressing elementary teacher misconceptions in science and supporting peer learning through curriculum mapping.* Paper presented at the National Association for Research in Science Teaching annual international conference, Orlando.

Ruiz-Primo, M.A., Li, M., Sands, D., Wills, K., Giamellaro, M., Jones, A. (2011, April) *Developing instructionally sensitive assessments: Lessons learned about the manipulation of close and proximal item characteristics*. Paper presented at the National Association for Research in Science Teaching annual international conference, Orlando, FL.

Luce, A., Giamellaro, M., Calcote, M., Marlow, M. (2007, October) *iPods in education: A reflective tool for experiential education.* Paper presented at the annual meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.

INVITED PRESENTATIONS

Giamellaro, M. (2017, February). *Contextualizing Data through a Collaborative Scientist-Teacher-Student Partnership*. Presentation to the Teacher-Scientist Partnership sub-meeting at the American Association for the Advancement of Science (AAAS) Annual Meeting, Boston, MA.

REGIONAL PRESENTATIONS

Giamellaro, M. (2017, August). Eclipses and crescents: Modelling moon shapes to understand the Earth-Sun system. Public talk at the OSU-Cascades Eclipse Festival, Bend, OR.

Bottoms, SA, Ciechanowski, K., Giamellaro, M. & Thompson, K. (2017, March). College of Education Research Symposia: Panel on Engaged Scholarship. Oregon State University, Corvallis, OR.

Lopez, A., Giamellaro, M., Siegel, D. (2016, May). *The evolution of a STEM coach's role in a school change initiative***.** Poster presented at the OSU-Cascades Student Research Symposium, Bend, OR.

Schenkelberg, R., Siegel, D., Giamellaro, M. (2016, May). *STEM to TEAMS: The evolution of an identity.* Poster presented at the OSU-Cascades Student Research Symposium, Bend, OR.

Finney, C., Harper, A., Giamellaro, M., Parks, E., Peterson, A., Santasiero, E., Taylor, A., Thompson, S. (2016, March). *How much is our personality, history, culture, and even desire embedded in the way we do research?* Panel Discussion For OSU-Cascades faculty salon series, Bend, OR.

Giamellaro, M., Siegel, D., Prevenas, P. (2015, October) *District-wide inclusive STEM.* Presentation at the Oregon Science Teachers Association (OSTA), Bend, OR.

Prevenas P., Giamellaro, M. (2015, October) *C4K: Coding for Kinders.* Presentation at the Oregon Science Teachers Association (OSTA), Bend, OR.

Prevenas, P., VanAstlyne, H., Giamellaro, M. (2015, April). *Rigorous and relevant: Supporting English language learners through STEM.* Presentation at the annual conference of the Oregon Association for Career and Technical Education (OACTE), Sunriver, OR.

Platt, C., Giamellaro, M. (2015, March). *The EdTPA Experience: Lessons from an Early Adopter*. Presentation at the annual conference of the Oregon Association of Teacher Educators (ORATE), Portland, OR.

Prevenas, P., VanAstlyne, H., Giamellaro, M. (2015, March). *STEM* + *ESL* = Learning. Annual English Learner's Alliance Conference of the Confederation of Oregon School Administrators. Eugene, OR.

Giamellaro, M. (2013, April). *Science: Out of the classroom and into the real world.* Public Lecture presented at Oregon State University- Cascades' "It's in the Bag Lunchtime Lecture Series." Bend, OR.

Giamellaro, M. (2012, June). *Science immersion experiences: Contextualized learning and Its impact on conceptual understanding in high school students.* Seminar presented to the Science and Math Education Department, Oregon State University, Corvallis, OR.

K-12 OUTREACH & PROFESSIONAL DEVELOPMENT

Giamellaro, M., Stark, G., Knapp, M., Phinney, R., and other partners (2017, July-August). Regional STEM Camps. Facilitated, funded, and organized free, 2-day STEM Camps taught by my past and current MAT students for Middle School students in underserved communities: La Pine, Warm Springs, Sisters, Bend. Collaboration between OSU, LaPine Middle, Central Oregon STEM Hub, Sisters Parks and Recreation, Warm Springs K-8 Academy, Latino Community Association, and Bend Parks and Recreation.

Giamellaro, M., O'Connell, K., Knapp, M. (Fall 2016 - Fall 2017). Numbers in Nature, Math on the Mountain coursework and coaching. Led four courses (ED 808) for 40 teachers to continue data literacy work as teacher-scientist partnership and provided *in situ* teacher coaching.

Giamellaro, M. (2017, January). Using the NGSS to increase the impact of free choice learning experiences. Presentation to the affiliated partners of the Children's Forest of Central Oregon. Bend, OR.

Giamellaro, M. (2016, December). Why the NGSS? Understanding the philosophy behind the new standards. Presentation to the science curriculum representatives of the Bend-LaPine School District. Bend, OR.

Giamellaro, M., O'Connell, K., Knapp, M. (2016, July). Numbers in Nature, Math on the Mountain Summer Retreat. Led a four-day teacher-scientist partnership retreat to support 30 teachers in using geographically contextualized data with math and science in grades 4-12.

Giamellaro, M., Knapp, M., & Phinney, R. (2016, July). LaPine STEM Camp. Facilitated and organized a free, 3-day STEM Camp taught by my MAT students for LaPine Middle School students. Collaboration between OSU, LaPine Middle, the High Desert Museum, and the Central Oregon STEM Hub. LaPine, OR.

Giamellaro, M. (2015, November). *Data and directions forward II: The state of the Culver/OSU STEM project*. Presentation to the Culver School District, Culver, OR.

Prevenas P., Giamellaro, M., Bezdek, K., Rico, P., Wagner, C., Nanez, S. (2015, August) *STEM Summer Institute.* Organized a week-long summer institute for K-12 teachers to support them in the development of STEM-focused, Project-Based Learning curriculum units that vertically align to NGSS across the K-12 Spectrum. Participants earned graduate professional development credits.

Giamellaro, M. (July 2014 & 2015). Camp Tamarack STEM Experience. Facilitated and organized free, 2-day STEM Camps taught by my MAT students for upper elementary and middle school students. Collaboration with Camp Tamarack.

Giamellaro, M., Daily, Q. (Spring, 2015). Co-taught 3 credit SED 599 course, *Developing STEM Content into Project-Based Curricula Part 2* for in-service teacher development- Culver, Black Butte, and Redmond Schools.

Giamellaro, M. (2014, December). *Data and directions forward: The state of the Culver/OSU STEM project*. Presentation to the Culver School District, Culver, OR. February 2015.

Giamellaro, M. (2014, December). *Teaching for Contextualization.* Lecture presented to Black Butte School Board and Curriculum Committee, Camp Sherman, OR.

Giamellaro, M., Prevenas P. (2014, August) *STEM Summer Institute.* Organized and led a week-long summer institute for K-12 teachers to support them in the development of STEM-focused, Project-Based Learning curriculum units.

Giamellaro, M., Daily, Q. (Spring, 2014). Taught 3 credit SED 599 course, *Developing STEM Content into Project-Based Curricula Part 1* for in-service teacher development with Culver Schools.

Giamellaro, M. (2014, February) *Aligning integrated curricula to the Next Generation Science Standards.* Workshop presented to the staff of Culver School District, Culver OR.

Giamellaro, M. (2013, October). *Using lesson study to build professional learning communities for curriculum reform.* Workshop presented to the staff of Culver School District, Culver OR.

Giamellaro, M., Dollar, N. (2013, August). *Integrating curricula with a STEM approach.* Workshop presented to the staff of Culver School District. Bend, OR.

Giamellaro, M. (2013, April) *What exactly is inquiry?* Workshop presented to staff of Bear Creek Elementary School, Bend, OR.

GRANT AND EXTERNAL FUNDING ACTIVITY

Funded (total: $1,480,495)

Giamellaro, M., O'Connell, K. (OSU), Knapp, M. (OSU), Kudlac, B. (Culver Schools) & other partners (2017, June). *Numbers in nature, math on the mountain: A teacher-scientist partnership to contextualize STEM instruction: Extension funds.* Funded by the Oregon University-School Partnership Program, A U.S. Dept. of Education grant via The Teaching and Research Institute at Western Oregon University. **Funded for 2017: $4,336**.

Giamellaro, M. (2016) Roundhouse Foundation Faculty Scholar of Science Education. Funded faculty chair to advance innovative approaches to science education in the region, state, and beyond. **Funded for 2016-2019: $75,000** with potential for renewal.

Giamellaro, M., O'Connell, K. (OSU), Knapp, M. (OSU), Kudlac, B. (Culver Schools) & other partners (2016, January). *Numbers in nature, math on the mountain: A teacher-scientist partnership to contextualize STEM instruction.* Funded by the Oregon University-School Partnership Program, A U.S. Dept. of Education grant via The Teaching and Research Institute at Western Oregon University. **Funded for 2016-2017: $164,777**.

Central Oregon STEM Hub (Giamellaro supporting contributor). (2016, February) *Regional STEM Hub – Programmatic Grant*. Funded through the Oregon Department of Education**. Funded for 2016-2017: $195,000.**

Central Oregon STEM Hub (Giamellaro supporting contributor). (2015, November) *Regional STEM Hub – Continuation Backbone Grant*. Funded through the Oregon Department of Education**. Funded for 2015-2017: $165,000.**

Platt, C., Giamellaro, M. *Supporting 21st century teachers at OSU-Cascades.* (2014, November) Funded through the internal OSU Learning Innovation Grant. **Funded for 2015: $10,000.**

Giamellaro, M., Kudlac, B. (Culver School District), Gess-Newsome, J. (OSU), Dollar, N. (OSU). (2014, January). *The Cascades STEM Lab School Cooperative.* (2014, January). Oregon Department of Education STEM Lab School Grant. $475,964, 1.2 years. **Funded for 2014-15: $475,964.**

Whitelaw, D. (High Desert Museum), Giamellaro, M., Bermudez, L. (Bend Science Station), Wopschall, K. (High Desert Museum). (2014, January). *Central Oregon STEM Hub.* Oregon Department of Education STEM hub initiative. **Funded for 2014-15: $123,843.**

Giamellaro, M. (PI), Gess-Newsome, J. (OSU), Dollar, N. (OSU), Garber, S. (Culver Schools), Kudlac, B. (Culver). (2013, December). *Cultivating a STEM learning community in rural Oregon: A K-12/ university partnership*. Oregon University/School Partnership program supported by the U.S. Dept. of Education (Title II-a). **Funded for 2014-15: $240,000**.

Barber, J.R. (Boise State), Francis, C. (Cal Poly), Giamellaro, M., Monz, C. (Utah State), Newman, P. (Penn State). (2013, May). *Soundscapes as coupled systems of biodiversity and human experience*. OSU role was broader impacts support and evaluation. NSF. Proposed $1,499,970, 4 years. Funded at $600,000 but broader impacts (OSU/Giamellaro Role) cut**.**

Platt, C., Giamellaro, M. *Supporting 21st century teachers at OSU-Cascades.* (2013, February). Funded through the internal OSU Technology Resources Fund (TRF). **Funded for 2013: $24,075.**

Giamellaro, M. (2013, March). Internal OSU internationalization grant funded travel to Cyprus for ESERA conference and collaboration. **Funded for 2013: $2500**.

In Review

Giamellaro, M. (2017, July). CAREER: Transfer and Comprehension through Contextualized Science (TraCCS). Submitted to the National Science Foundation's CAREER program and Education and Human Resources Division, Educational Core Research. ($720,647, 5 years).

Not Funded

Giamellaro, M. (2016, July). CAREER: Contextualization Level as Link Between Comprehension and Transfer. Submitted to the National Science Foundation's CAREER and Education and Human Resources Division. ($662,000, 5 years).

Giamellaro, M., Siegel, D.(OSU), Kudlac, B. (Culver Schools). (2016, June). *From seed to STEM: Co-developing a model of rural, K-12 STEM.* Submitted to the Spencer Foundation's Research-Practice Partnership grant program. ($384,000, 3 years).

Giamellaro, M. (February, 2016) *Extracting the lessons learned from a STEM innovation.* Submitted to the OSU General Research Fund. $9844 for 8 months in 2016.

Platt, C., Giamellaro, M., Schuetz, R., Knapp, M. (December, 2015). *Continued support for teaching with technology at OSU-Cascades.* Submitted to the OSU Learning Innovation Grant Program. $6200 for 2016.

Giamellaro, M., Siegel, D.(OSU), Kudlac, B. (Culver Schools). (2015, April). *From seed to STEM: Co-developing a model of rural, K-12 STEM.* Submitted to the Spencer Foundation's Research-Practice Partnership grant program. (Not funded).

Giamellaro, M., Gess-Newsome, J (OSU). (2015, February) *Connections to context: Examining the situatedness of STEM contextualization for learners in rural settings.* Submitted to the National Science Foundation's Education Core Research program in the EHR Directorate. (Not funded).

Francis, C. (Cal Poly), Barber, J. (Boise State), Giamellaro, M. (2014, July). *Collaborative Research: RUI: Direct and indirect effects of natural sounds on the structure of*

vertebrate insectivore communities. OSU role was broader impacts and RET support and evaluation. NSF. Invited for proposal following pre-proposal. (Not funded).

Miller, J.R. (U. Kansas), Hirmas, D.R. (U. Kansas), Slocum, T.R. (U. Kansas), Reuter, R.J. (OSU-Cascades), Giamellaro, M. (2012, December). *Collaborative research: SoilKit: Developing a virtual soil monolith database to enhance high school science education*. NSF DRK-12. Not funded.

Barber, J.R. (Boise State U.), Goldstein, J. (Colorado State U.), Newman, P. (Colorado State U.), Monz, C. (Utah State U.), Taff, D. (Colorado State U.), McClure, C. (Boise State U.), Giamellaro, M., Francis, C. (Nat'l Evolutionary Synthesis Center), Fristrup, K. (Nat'l Park Service), Chalfoun, A, (U. of Wyoming). (2012, October) *Reciprocal connections between humans, soundscapes and wildlife: Understanding the coupled impacts of reduced listening area.* NSF Dynamics of Coupled Human and Natural Systems (CNH). Not funded.

Giamellaro, M., Jones, S., Starek, P., Herman, S., Scully, D. with Barber, J. (2009, May) *Impact of passive recreation on ecological communities as assessed through acoustic inventory: High school citizen science.* Boulder County Parks and Open Space Small Grants Program. Not funded.

AWARDS AND HONORS

2017 OSU Vice Provost Award of Excellence: Outreach and Engagement

2016 OSU-Cascades Scholarship and Creative Activity Award

2015 Fred Fox Distinguished Service to Science Education Award. Oregon Science Teachers Association

2004 Outstanding Graduate Award, University of Colorado Denver

PROFESSIONAL AFFILIATIONS

AAAS, American Association for the Advancement of Science

AACTE, American Association of Colleges for Teacher Education

AEE, Association for Experiential Education

AERA, American Educational Research Association

ASTE, Association for Science Teacher Education

ESERA, European Science Education Research Association

NARST, National Association for Research in Science Teaching (reviewer)

NSTA, National Science Teachers Association

ORATE, Oregon Association of Teacher Educators

OSTA, Oregon Science Teachers Association

SERVICE (to the Profession)

Peer Reviewer for:

Science Education journal (2016-present).

Meidl, T.D. and Sulentic Dowell, M-M., eds. (anticipated publication 2018). *Service-learning initiatives in teacher education programs*. Hershey, PA: IGI-Global.

Professional conference proposals:
NARST (2012, 2013, 2014, 2016)
AERA (2013, 2017)
ASTE (2015, 2016).

Professional conference session presider:
ASTE (2016)
NARST (2014, 2017)
AERA (2014)

State level contributions
Oregon Department of Education, State Science Advisory Panel (2014-Present)
Oregon STEM Hub Convening (2014, 2016)
Oregon STEM Summit (2014), invited representative.

SERVICE (to the University & Campus)

Associate Dean of Cascades Campus Search Committee (2017-2018)

Dean of the College of Education Search Committee (2016-2017)

OSU-Cascades Campus Committees
Peer Review of Teaching (PROT) committees (2013, 2014, 2017-Chair of 2, 2018-Chair)
Research Excellence Committee (2016-present).
Undergraduate Research & Experiential Learning Committee (2016-present).
Campus Culture Committee (2014-2016)
New campus committees (technology, architecture, lab spaces, 2013-2015)
Library technology committee (2012-2013)
Office and space use committee (2014-2015)

Mentor two undergraduate first year students per year (2017-present)

Grant and expertise support to American Association for University Women STEM Project (funded) and STEM Hub/ regional school district consortium *Math in Real Life* grant (funded). (2016).

OSU SMILE (Science & Math Investigative Learning Experiences) campus facilitator (2015)

OSU STEM Center for Lifelong Learning, broader impacts invitational (2012)

SERVICE (to the College)

OSU College of Education Strategic Planning Committee member (2016-present).

Search Committees:
Secondary Full Time Instructor in MAT Program (2017)
Secondary Full Time Instructor in MAT Program (2016)
Elementary and Secondary Full Time Instructors in MAT Program (2014-15)

HR administrator (2013)

Primary role in complete redesign of the OSU-Cascades MAT curriculum and program 2014-2015.

SERVICE (to the Community)

Co-founder, Executive Council member, and Advisory Board Member, Central Oregon STEM Hub (2014-present)

Consultation and Support to School Districts:

Culver School District conversion to STEM curriculum, (2013-present)

Black Butte School District: Curriculum design and structure (2014-present)

Consult on the Pine Meadows Ranch science center planning effort (2017-present)

Designed, obtained IRB approval, and conducted survey for Deschutes Children's Forest (~2000 teacher recipients) 2014, 2015.

See additional service to the community in "K-12 Outreach and Professional Development" above.