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# LISA M. BLANK

Executive Director  
Oregon Coast STEM Hub  
Hatfield Marine Science Center  
Newport, Oregon

## EDUCATION

**Doctor of Philosophy: Science Education (1997)**

*Indiana University, Bloomington, Indiana*

**Master of Arts in Teaching: Science (1993)**

*Indiana University, Bloomington, Indiana*

**Bachelor of Science in Environmental Science and Public Policy (1987)**

*Indiana University, Bloomington, Indiana*

## CERTIFICATIONS and LICENSURE

**State of Montana Teaching License, 5-12: Biology and Broadfield Science**

**GIS Certificate, The Pennsylvania State University (2009)**

## PROFESSIONAL EXPERIENCE

**Executive Director, Oregon Coast STEM Hub (2018 – present)**

*Hatfield Marine Science Center, Newport, Oregon*

- Manage administration, strategic leadership, resource development, grant funds, evaluation and high-level public exposure. Support the work of a multi-disciplinary leadership council, lead STEM Hub staff and engage diverse stakeholders from public and private sectors to achieve regional and statewide goals.

**Professor of Education (1998 - 2018)**

*University of Montana, Missoula, Montana*

- Maintained active research and grant program (please see below). Coordinated graduate Teaching and Learning program including the development of a fully online master's program using Blackboard and later serving as Moodle learning management liaison for college to ensure continued faculty engagement and support. Advised undergraduate and graduate students; supervised elementary, middle, and high school teacher candidates using co-teaching model.
- Teaching rotation included: EDEC 453, Early Childhood STEM; EDU 497.05, Teaching Science K-8; EDU 497.09, Teaching Science 5-12; EDU 400/401, Seminar for Field Experience; EDU 544, Supervision and Teaching of Science; EDU 501, Curriculum Design, Implementation, and Reform; EDU 694, Teaching Science: Theory and Practice; EDU 407, Ethics and Policy; EDU 491, Implementing Indian Education for All in the K-12 Classroom; EDU 200, Introduction to Teaching Through Field Experiences. Delivery methods include face-to-face, online, and blended.

**Assistant Professor of Education (1997 - 1998)**

*SUNY-Cortland, Cortland, New York*

- Taught E374, Methods of Teaching Elementary School Science & E433, Methods of Teaching Junior High Science. Supervised elementary and middle school student teachers.
  - Developed and taught three sections of E328, Science Methods for Elementary Teachers.
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## Professional Experiences Continued . . .

### Associate Instructor (1994 - 1995)

*Indiana University, Bloomington, Indiana*

- Taught three sections of Q200, Introduction to Scientific Inquiry, a content course for freshman elementary education majors covering basic science process skills and the nature of matter.

## RELATED EXPERIENCE

### Science Teacher (1989 - 1994)

*Eastern School District, Bloomfield, Indiana*

- Taught seventh grade Life Science, tenth grade Biology, Advanced Placement Biology, and served as elementary science specialist. Team-taught in an inclusion program. Supervised and evaluated practicum and student teachers. Established the Eastern Outdoor Education Center. Obtained state funding to establish an Internet connection for the middle and high school. Coached varsity track.

### Environmental Scientist (1987 - 1988)

*Monroe County Health Department, Bloomington, Indiana*

- Managed county's participation in implementation of court-supervised PCB Consent Decree mandating cleanup of hazardous materials. Monitored air and water quality during Superfund site remediation and served as community liaison. Presented regular status reports through radio, television, and newspaper.

## HONORS AND AWARDS

- *Fulbright Scholar Award*, Borys Grinchenko Kyiv University, Kyiv, Ukraine, 2017.
- *Visiting Professor*, Hangzhou Preschool Teacher's College, Zhejiang Normal University, 2017
- *Most Distinguished Teaching Award*, University of Montana, 2015.
- *Faculty Exchange Award*, Zhejiang University, Hangzhou, China, 2013.
- Elected member of *Sigma Xi Scientific Research Society*, 2009
- *Faculty Exchange Award*, Massey University, Palmerston North, New Zealand, 2004.
- *Most Inspirational Teacher Award*, University of Montana, 2001.
- Dissertation nominated for 1997 *Dissertation of the Year Award*. Indiana University, Bloomington, IN
- Fellowship, *Indiana University Teacher as Decision Maker*, 1988 - 1989.

## PUBLICATIONS

Anisimova, L., Vinnikova, N., & **Blank, L.** (in review). Implementation of servant leadership in Ukrainian higher education. *International Journal of Leadership in Education*.

Delaloye, N., **Blank, L.**, Ware, D., Hester, C., Ward, T., Holian, A., Adams, E. (2018). Evaluating the impact of authentic research on secondary student self-efficacy and future scientific possible selves. *International Journal of Environmental and Science Education*, 13, (9), 737-746.

**Blank, L.**, Almquist, H., Estrada, J., Crews, J. (2016). Factors affecting student success with a Google-Earth based Earth Science curriculum. *Journal of Research on Technology in Education*, 25(1), 77-90. DOI. 10.1007/s10956-015-9578-0.

**Publications Continued . . .**

- Blank, L.**, Snir, A., Lundesgaard, M. (2015). Virtual modeling: Fifth grade students use computer programming to create models that help them understand patterns in Earth and Sky. *Science Scope*, 52(5), 30-35.
- Blank, L.**, Almquist, H, Mannix, L. (2014). Exploring invasive weed species using Google Earth and wikis: A seventh grade research project to evaluate environmental change over time. In, T. Grant (Ed.) *Teaching about Invasive Species*. Toronto, CA: Green Teacher.
- Blank, L.**, Crews, J., Knuth, R., (2014). Spatial Sci: Forwarding Geotechnology Innovations in the Classroom. In, J.G. MaKinster, N.M. Trautmann, & M. Barnett (Eds.), *Teaching Science and Investigating Environmental Issues with Geospatial Technology: Designing Effective Professional Development for Teachers*. Springer Publishing Co.
- Almquist, H., **Blank, L.**, Crews, J., Stanley, G., and Hendrix, M. (2014). Designing Experiments in Field-based Professional Development: Teachers Investigate the Geologic History of Eastern Montana Using Geospatial Technologies. In, J.G. MaKinster, N.M. Trautmann, & M. Barnett (Eds.), *Teaching Science and Investigating Environmental Issues with Geospatial Technology: Designing Effective Professional Development for Teachers*. Springer Publishing Co.
- Blank, L.**, & Crews, J. (2013). *Building Worldviews using traditional cultures and Google Earth: Fort Peck Reservation Curriculum Guide*. Montana Office of Public Instruction.
- Almquist, H., **Blank, L.**, and Estrada, J. (2012). Developing a scope and sequence for using Google Earth in the middle school earth science classroom. *Geological Society of America Special Paper 492, Google Earth and Virtual Visualizations in Geoscience Education and Research*, 403-412.
- Blank, L.**, Plautz, M., Almquist, H., Crews, J., and Estrada. (2012). Using Google Earth as a Gateway to Teach Plate Tectonics and Science Explanations. *Science Scope*, 35(9), 41-48.
- Almquist, H., Stanley, G., Hendrix, M., **Blank, L.**, Hanfling, S. and Crews, J. (2011). An integrated field-based approach to building teachers' geosciences skills. *Journal of Geoscience Education*, 59, 31-40.
- Moorhead, L., Breuner, C., & **Blank, L.** (2011). Impacting teacher candidate practices through authentic research experience. *Integrative and Comparative Biology*, 51, E95.
- Blank, L.**, & Valen, A. (2010). Advancing interest in graduate research through undergraduate/scientist partnerships: The Tioga learning community. *Integrative and Comparative Biology*, 50, E13.
- Almquist, H., **Blank, L.** Crews, J., Estrada, J. (2010). *A teacher's introduction to Google Earth and GPS receivers*. Lolo, Montana, Spatial Sci Press.
- Blank, L.**, Crews, J., & Munson, M. (2009). *Building worldviews using traditional cultures and Google Earth: Flathead Reservation Curriculum Guide*, DVD, Website, and animated tutorial. Montana Office of Public Instruction.

### Publications Continued . . .

- Almquist, H., **Blank, L.**, Crews, J., Gummer, E., Hanfling, S. & Yeagley, P. (2009). Embedding Spatial Technology in a Field-Based Science Education Course for Teachers. In, C. Crawford et al. (Eds.), *Proceedings of Society for Information Technology and Teacher Education International Conference 2009* (pp. 3708-3713). Chesapeake, VA: AACE.
- Almquist, H. Stanley, G., **Blank, L.**, Crews, J., Hendrix, M. (2009). Geologic field research: Helping teachers bring geospatial technologies and inquiry approaches to the classroom. *Geological Society of America*, 41(7), 318.
- Blank, L.** Crews, L. (2008). Science goes spatial: Geotechnologies in the classroom. *Journal of Educational Practices*, (6), 116-129.
- Blank, L.** (2007). Mammals who morph: The universe tells our evolution story. *Reports of the National Center for Science Education*, (27)5-6, 49-50.
- Kaufman, K., **Blank, L.**, & Mitchell, M. (2007). *The CoMotion in Motion Resource Guide for Teachers*. CoMotion Dance Project.
- Blank, L.**, Crews, J. & Beed, D. (2005). Science goes spatial: Geotechnology in the elementary classroom. *Eisenhower National Clearinghouse Focus*, 13(1), 73-92.
- Blank, L.**, Plautz, M., & Crews, J. (2004). Making an impact: Shattercones. *Science Scope*, 28 (3), 40-42.
- Blank, L.** (2004). Our family tree: An evolution story. *Reports of the National Center for Science Education*, 23(5-6), 54.
- Blank, L.** & C. Brewer, O. Lee and A. Lukyx, S Barker and D. Slingsby, K. Hollweg, K. Comfort and R.W. Bybee (2003). Ecology education when no child is left behind. *Frontiers in Ecology and the Environment*, 7: 383-390.
- Blank, L.** (2002). Get wild about filmmaking. *CLEARING: Environmental Education Resources for Teachers*, 111, 32-33.
- Brown F., & **Blank, L.** (2001). Bridging environmental education trans-atlantic: An American and Hungarian teacher inservice project. *International Journal of Environmental Education and Information*, 20(2), 77-92.
- Wasta, S. & **Blank, L.** (2001). Making a huckleberry cobbler: An interdisciplinary journey. *Social Studies and the Young Learner*, 13(3), 17-20.
- Blank, L.** (2000). A metacognitive learning cycle: A better warranty for student understanding? *Science Education* (84), 486-506.
- Blank, L.** (1999). The beast in you: activities and questions to explore evolution. *Reports of the National Center for Science Education*, 19(5), 42-43.
- Blank, L.** (Fall, 1999). Lions and goats revisited. *The Researcher*, 14(1), 5-6.
- Blank, L.** (Nov/Dec, 1998). Red light, blue light: Investigating animal signals. *Science Scope*, 22(3), 14-18.

### Publications Continued . . .

**Blank, L. & Andersen, H.O.** (1997). Teaching evolution: Coming to a classroom near you? *Reports of the National Center for Science Education*, 17(3), 10-13.

**Blank, L.** (1990). *Ecological succession*. In C. Bennett, *Comprehensive multicultural education* (pp. 365-368). Boston, MA: Allyn and Bacon.

### RESEARCH AND GRANTS

**Blank, L.** (2019). *Using Marine Science Anchoring Phenomena to Build a Marine Research and Educator Alliance that Fosters Ocean Literacy*. Sea Grant Program Development (\$49,099.00). Launch Oregon Marine Research and Educator Alliance, develop six marine science anchoring phenomena and companion curriculum aligned with NGSS.

Truitt, H. & **Blank, L.**, Swaney, W. (2016). *EAGER: MAKER: Inspiring the Flathead Indian Reservation's Next-Generation Workforce through Mobile, Cultural Making*. National Science Foundation Engineering Education. (\$299,943.00). Develop mobile makerspace and related curriculum. Directed education research plan and curriculum development.

**Blank, L. & Erickson, D.**, Luebeck, J, Risser, H. (2016). *Science and Mathematics Education Leadership Training (MSP-LEAD)*, Montana Office of Public Instruction. Provide leadership professional development training to math and science master teachers for the purpose of developing teacher agency and educational reform that increases student understandings in math and science. Directed all grant activities, managed the budget reporting responsibilities, provided leadership training, facilitated external evaluation (\$139,176.00).

Reimer, Y., **Blank, L.**, Braun, J., Olson, T., Yang, Qing. (2016). *Growing Computer Science Curriculum, Diversity, and Teacher Preparedness across Montana*. National Science Foundation CS10K. Develop 3-year computer programming curriculum for Montana high schools. Directed the education research plan and evaluation effort (\$999,975.00).

**Blank, L.** (2016). Tracking and Evaluation Core Director. *American Indian-Alaska Native Clinical and Translational Research Center*. National Institutes of Health (\$566,985.00). Directed all external evaluation activities across seven sites in Montana and Alaska.

**Blank, L.** (2014). *Schools and Higher Education Advancing Public Education Across the P-20 Spectrum (SHAPE P-20)*, STEM Initiative. Washington Foundation. Develop STEM programming opportunities for K-12 student body in partnership with Missoula County Public Schools (e.g., robotics, makerspaces, Girl's STEM Career Conference). Directed all grant activities, manage the budget, research and reporting responsibilities.

**Blank, L.** (2014). *Developing a STEM Stories You-Tube Channel*. National Girls Collaborative (\$2000.00).

**Blank, L.** (2012). University of Montana International Programs (\$1500.00).

Almquist, H., **Blank, L.**, Halvorson, S. (2012). *Project-based, Collaborative Learning with Google Earth and Wikis (GooWi)*. National Science Foundation, CI Team Demo (\$245,995.00).

### Grants Continued . . .

Almquist, H., **Blank, L.** (2009). *Cyber-Enabled Earth Exploration: Development of Materials for Middle School Earth Science Instruction*. National Science Foundation DRK-12 Program (\$449,461.00).

**Blank, L.**, Elser, T. (2008). *Transforming teacher preparation through faculty development*. Montana Office of Public Instruction Indian Education Ready-to-Go Grant (\$14, 777.00).

Almquist, H., Stanley, G., & **Blank, L.** (2006). *Paleo exploration project*. National Science Foundation I-TEST Program (\$1,300,000.00).

**Blank, L.**, Munson-Lenz, M. Crews, J. (2006). *Place Names: Building worldviews using* Office of Public Instruction, Indian Education, Ready to Go Grant, Round 2 (\$41,725.00).

**Blank, L.**, Crews, J., & Maumanee, N. (2005). *Science goes spatial: Geotechnology in the classroom*. Toyota USA Foundation (\$300,000.00).

Brewer, C., Alaback, P., **Blank, L.**, Oberbillig, D. & Plautz, M..(2003). *Ecologists, Educators, and Schools - Partners in GK-12*. National Science Foundation Program (\$1,956,123.00).

Brewer, C., Caton, E., **Blank, L.**, Mills, L., & Kuschel, C. (2000). *Montana Teachers Investigate Ecology: MT-TIE Program*. National Science Foundation Program (\$286,054.00).

**Blank, L.** (2000). University of Montana Service Learning Grant. (\$1,250.00).

Erickson, D., **Blank, L.**, & Wing, L. (April, 1999). Implementing standards. Dwight D. Eisenhower Mathematics and Science Education State Grant.

## GRADUATE ADVISING

### Dissertation Chair

Pete, Shandin. Ed.D. (2018). *Mediating Cultural Border Crossings between Tribal College Students and Natural Resources Science Education using Culturally Congruent Instruction*.

Joern, Tim. Ed.D. (2009). *Investigating the Relationships between Seventh and Eighth Grade Science Teachers' Background, Self-efficacy toward Teaching Science as Inquiry, and Attitudes and Beliefs on Classroom Control*.

Crews, Jeff, Ed.D. (2008). *Impacts of a Teacher Geospatial Technologies Professional Development Project on Spatial Literacy Skills and Interests in Science and Technology in Grades 5 – 12 Classrooms Across Montana*.

*Total Dissertations Chaired: 3*

*Total Masters Chaired: 93*