Melissa J. Luna

West Virginia University
College of Applied Human Sciences

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EDUCATION

2013 **Ph.D., Learning Sciences**
Northwestern University, School of Education and Social Policy, Evanston, IL
Thesis: *Investigating Elementary Teachers' Thinking About and Learning to Notice Students' Science Ideas*

2001 **M.S., Environmental Education**
Audubon Expedition Institute, Lesley University, Cambridge, MA

1992 **B.S., Elementary Education**
Valparaiso University, Valparaiso, IN

APPOINTMENTS

West Virginia University, College of Applied Human Sciences (established July 1, 2022)

July 2022-Present	**Associate Dean for Research and Engagement**
July 2022-Present	**Associate Professor**, School of Education

West Virginia University, College of Education and Human Services (dissolved June 30, 2022)

July 2019-June 2022	**Associate Dean for Research**
May 2019-June 2022	**Associate Professor**, Department of Curriculum & Instruction/Literacy Studies
August 2013-May 2019	**Assistant Professor**, Department of Curriculum & Instruction/Literacy Studies
August 2012-July 2013	**Visiting Assistant Professor**, Department of Curriculum & Instruction/Literacy Studies

HONORS AND AWARDS

2023	Semi-Finalist WVU Distinction in Mentoring Graduate Students in Research Award
2022	Journal of the Learning Sciences Reviewer of the Year
2018	West Virginia University CEHS Outstanding Researcher Award
2017	Nominee AERA Division K Early Career Award
2017	Nominee AERA Division C Jan Hawkins Award
2016	National Science Foundation CAREER Award
2015	West Virginia University CEHS Derrick Teacher Education Research Award
2015	West Virginia DEP Environmental Excellence Award for Education and Community Involvement
2013-2014	Finalist Outstanding Dissertation Award, National Association for Research in Science Teaching
2013-2014	Finalist Division K Outstanding Dissertation Award, American Educational Research Association
2010-2011	Spencer Foundation Dissertation Fellowship for Research Related to Education

PEER-REVIEWED JOURNAL PUBLICATIONS

Italicized author name indicates graduate student co-author; * after author name indicates practicing preK-5 teacher co-author.

1. **Luna, M. J.**, Bernstein, M., & Walkoe, J. (2023 in press). Intersections of Teacher Noticing and Culturally-Sustaining Pedagogy: A conceptual framework to inform the design of teacher learning. *School Science and Mathematics*.

2. Ko, M. & **Luna, M. J.** (2023 accepted). The glue that makes it "hang together": A framework for identifying how metadiscourse facilitates raising, maintaining and reducing uncertainty during knowledge building. *Journal of Research in Science Teaching.*

3. **Luna, M. J.**, & Selmer, S. (2021). Examining the responding component of teacher noticing: A case of one teacher's pedagogical responses to students' thinking in classroom artifacts. *Journal of Teacher Education*. *72*(5), 579-593. doi: 10.1177/ 00224871211015980.

4. Richards, J., Elby, A., **Luna, M. J.,** Robertson, A., Levin, D., & Nyeggen, C. (2020). Reframing the responsiveness challenge: A framing-anchored explanatory framework to account for irregularity in novice teachers' attention and responsiveness to student thinking. *Cognition and Instruction,* 38(2), 116-152. doi: 10.1080/07370008.2020.1729156.

5. Walkoe, J. D. K. & **Luna, M. J.** (2020). What we are missing in studies of teacher learning: A call for microgenetic, interactional analyses to examine teacher learning processes. *Journal of the Learning Sciences*, 29(2), 285-307. doi: 10.1080/10508406.2019.1681998.

6. **Luna, M. J.** (2018). What does it mean to notice my students' ideas in science today?: An investigation of elementary teachers' practice of noticing their students' thinking in science. *Cognition and Instruction,* 36. doi:10.1080/07370008.2018.1496919.

7. **Luna, M. J.**, Selmer, S., & Rye, J. (2018). Teachers' noticing of students' thinking in science through classroom artifacts: In what ways are science and engineering practices evident? *Journal of Science Teacher Education,* 29: 148-172. doi:10.1080/1046560X.2018.1427418.

8. **Luna, M. J.** & Sherin, M. G. (2017). Using a video club design to promote teacher attention to students' ideas in science. *Teaching and Teacher Education,* 66: 282-294.

9. *Murphy, A. N.*, **Luna, M. J**., & Bernstein, M. B. (2017). Science as experience, exploration, and experiments: Elementary teachers' notions of "doing science". *International Journal of Science Education*, 39: 2283-2303. doi: 10.1080/09500693.2017.1374578.

10. *Ensign, T.,* Rye, J. & **Luna, M. J.** (2017). Embedding probeware technology in the context of ocean acidification in elementary science methods courses. *Journal of Science Education and Technology*, 1-11.

11. Stansbury, K.*, Rye, J., **Luna, M. J.**, & *Lutz, A.* (2017). A cucurbit ripe for building vocabulary. *Science and Children,* 55(3).

12. Rummel, S.*, Rye, J., Selmer, S., & **Luna, M. J.** (2017). Action research to integrate science with mathematics through garden-based learning at the elementary school level. *Journal of Advances in Education Research,* 2(4): 199-211.

13. Selmer, S. J., Valentine, K., **Luna, M. J.**, Rummel, S.*, & Rye, J. A. (2016). How can we best use our school garden space?: Exploring the concepts of area and perimeter in an authentic learning context. *Australian Primary Mathematics Classroom,* 21(4).

14. Selmer, S., **Luna, M. J.**, & Rye, J. (2015). Insights into teachers' experiences implementing garden-based learning: Characterizing the relationship between the teacher and the curriculum. *Teachers College Record,* 117: 1-36.

15. **Luna, M. J**., Rye, J. A., Forinash, M.*, & Minor, A.* (2015). Gardening for homonyms: Integrating science and language arts to support children's creative use of multiple meaning words. *Science Activities,* 52: 92-105.

16. Russ, R. S. & **Luna, M. J.** (2013). Inferring teacher epistemological framing from local patterns in teacher noticing. *Journal of Research in Science Teaching,* 50: 284-314.

17. Light, G., Calkins, S., **Luna, M. J.**, & Drane, D. (2009). Assessing the impact of faculty development programs on faculty approaches to teaching. *International Journal of Teaching and Learning in Higher Education,* 20(2).

18. Hersam, M. C., **Luna, M. J.,** & Light, G. (2004). Implementation of interdisciplinary group learning and peer assessment in a nanotechnology engineering course. *Journal of Engineering Education*, 93.

PEER-REVIEWED PUBLISHED CONFERENCE PROCEEDINGS & BOOK CHAPTERS

1. **Luna, M. J.** (2023 in press). Theorizing and Modeling Teachers' Knowledge of Noticing. In the *Proceedings of the 17th International Conference of the Learning Sciences - ICLS 2023*. International Society of the Learning Sciences.
2. van Es, E., **Luna, M. J.**, & Tekkumru-Kisa, M. (2023 in press). An exploration of noticing discourse as a mechanism of teacher learning. In A. Gegenfurtner & R. Stahnke (Eds.), *New perspectives on teacher professional vision.* Routledge.
3. Ko, M. & **Luna, M. J.** (2021). Proposing a Framework for Analyzing Metadiscourse in Dialogic Science Classrooms. In de Vries, E., Hod, Y., & Ahn J. (Eds.), *Proceedings of the 15th International Conference of the Learning Sciences - ICLS 2021*, Volume 1 (pp.649-652). Bochum, Germany: International Society of the Learning Sciences.
4. **Luna, M. J.**, Bernstein, M., & Walkoe, J. (2020). Attention, Awareness, and Analysis: Video Clubs as Meaningful Venues for Teacher Noticing and Culturally-Sustaining Pedagogy. In Gresalfi, M. and Horn, I. S. (Eds.), *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020*, Volume 4 (pp. 2401-2402). Nashville, Tennessee: International Society of the Learning Sciences.
5. Elby, A., **Luna, M. J.**, Robertson, A., Levin, D., & Richards, J. (2020). Framing Analysis Lite: A Tool for Teacher Educators. In Gresalfi, M. and Horn, I. S. (Eds.), *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020*, Volume 4 (pp. 2085-2092). Nashville, Tennessee: International Society of the Learning Sciences.
6. **Luna, M. J.** (2014). Framing the Task: Variation in One Teachers' Attention to Students' Ideas Expressed While Engaged in Disciplinary Practices. *Proceedings of the 2014 International Conference of the Learning Sciences*.
7. **Luna, M. J.**, Mulligan, M.*, Sherin, M.G., & Walkoe, J. (2010). Supporting video club conversations using teacher selected video clips. *Proceedings of the 2010 International Conference of the Learning Sciences*.
8. **Luna, M. J.**, Russ, R., Colestock, A. (2009). Teacher noticing in-the-moment of instruction: The case of one high-school science teacher. *Proceedings of the 2009 Annual International Conference of the National Association for Research in Science Teaching*.

EXTERNAL GRANTS AWARDED

CAREER: Investigating Fifth Grade Teachers' Knowledge of Noticing Appalachian Students' Thinking in Science. National Science Foundation. $790,528 (Award ID 1552428). **Luna, M. J.** (PI). July 2016-June 2023.

Adapting the Next Generation Physical Science and Everyday Thinking Curriculum for a Lecture-Laboratory Format. National Science Foundation. $211,399. Stewart, G. (PI), Miller, P. (Co-PI), **Luna, M. J.** (Key Personnel). September 2016-May 2021.

Mountaineer Educational CREATE Center (MECC). Benedum Foundation. $207,000. Schrum, L. (PI), Carver, J. (Co-PI), and **Luna, M. J.** (Co-PI). April 2013-July 2015.

INTERNAL GRANTS AWARDED

Modeling Elementary Teachers' Complex Thinking Around the Practice of Noticing Students' Thinking in Science. CEHS Derrick Teacher Education Research Award. $7,500. **Luna, M. J.** (PI). August 2015-July 2016.

Teachers' Noticing Students' Thinking in Science. CEHS Research Office: Grant Development Award. $6,000. **Luna, M. J.** (PI). May 2015-August 2015.

WVU Sponsorship Program. Office of the Provost. $15,000. **Luna, M. J.** (PI). October 2013-October 2014.

Supporting Teachers in Integrating GBL Across the Curriculum. Benedum Collaborative Research Intensive Grant Tier II. $5,750. North Elementary School Research Team (PI), **Luna, M. J.** (Co-PI), and Rye, J. (Co-PI). August 2013-June 2014.

CONFERENCE PRESENTATIONS

1. **Luna, M. J.**, Tekkumru-Kisa, M., & van Es, E. (2023). Toward Defining a Noticing Discourse. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL, April 13-16, 2023.
2. **Luna, M. J.** (2023). Elementary Science and Teacher Education Standards in the U.S.: Implementation and Future Directions. Mid-Atlantic State Case. Paper presented at the National Association for Research in Science Teaching Annual International Conference, Chicago, IL, April 18-21, 2023.
3. *Vali, S.* & **Luna, M. J.** (2023). Investigating How Ambitious Science Teaching and Responsive Moves Support a Science-as-Practice Teaching Approach. Poster presented at the National Association for Research in Science Teaching Annual International Conference, Chicago, IL, April 18-21, 2023.
4. **Luna, M. J.** (2022). Teachers' Planned Use of Place-Based Stories Rooted in Students' Everyday Experiences of Natural Phenomenon. Poster presented at the National Association for Research in Science Teaching Annual International Conference, Vancouver, Canada, March 27-30, 2022.
5. *Helton, E.* & **Luna, M. J.** (2022). Figured Worms: Teacher Identity in Lesson Planning Discourse. Paper presented at the American Educational Research Association Annual Meeting, San Diego, CA and online, April 21-26, 2022.
6. **Luna, M. J. (2021).** Seeing the Science in What Children Say and Do: A PD Opportunity for Elementary Teachers. Presentation at the West Virginia Science Teachers Association Annual Conference, Roanoke, WV, October 28-30, 2021.
7. van Es, E., **Luna, M. J.**, & Tekkumru-Kisa, M. (2021). Theorizing the Relationship between Teachers' Noticing in Professional Development and Classroom Practice. Paper presented at the American Educational Research Association Annual Meeting, Online, April 9-12, 2021.
8. *Kooken, A. N.*, Murray, J., & **Luna, M. J.** (2021). Investigating How 4-H Project Books Engage Youth in Science & Engineering Practices. Paper presented at the National Association for Research in Science Teaching Annual International Conference, Online, April 7-10, 2021.
9. *Murphy, A. N.*, & **Luna, M. J.** (2020). Ms. Bernina's Knowledge of Her Students' Knowledge and of Science Teaching. Paper accepted at the National Association for Research in Science Teaching Annual International Conference, Portland, OR, March 15-18, 2020. (Conference canceled due to COVID-19.)
10. *Vali, S.*, & **Luna, M. J.** (2020). Traces of Ambitious Science Teaching and Science and Engineering Practices in Teachers' Noticed Moments of Students' Thinking in a Science Classroom. Poster accepted at the National Association for Research in Science Teaching Annual International Conference, Portland, OR, March 15-18, 2020. (Conference canceled due to COVID-19.)
11. *Raol, M.* & **Luna, M. J.** (2019). Understanding Engineering in K-2 Classrooms through Analysis of Practitioner Literature. Poster presented at the West Virginia Science Teachers Association Annual Conference, Charleston, WV, October 24-26, 2019.
12. Johnson, H. J., & **Luna, M. J**. (2019). Using an Online Video Annotation Tool to Initiate Teacher Dialogue Around Noticing Students' Thinking and Ambitious Science Teaching. Paper presented at the American Educational Research Association Annual Meeting, Toronto, Canada, April 5-9, 2019.
13. Ko, M., & **Luna, M. J.** (2019). Unpacking Talk in a Dialogic Science Classroom thorough an Analysis of

Metadiscourse. Poster presented at the American Educational Research Association Annual Meeting, Toronto, Canada, April 5-9, 2019.

14. **Luna, M. J.**, Bernstein, M. B., & Walkoe, J. D.K. (2019). Showcasing an Unexamined Affordance of Video Clubs: How Noticing Positions Teachers for Culturally-Sustaining Pedagogy. Paper presented at the American Educational Research Association Annual Meeting, Toronto, Canada, April 5-9, 2019.
15. **Luna, M. J.** & Selmer, S. J. (2019). A Teacher's Noticing of Student Thinking in a Researcher-Designed Formative Assessment Context Focused on Classroom Artifacts. Poster presented at the American Educational Research Association Annual Meeting, Toronto, Canada, April 5-9, 2019.
16. *Murphy, A. N.*, & **Luna, M. J.** (2019). Disciplinary Practice in Students' Talk about Why We See Stars Only at Night. Paper presented at the National Association for Research in Science Teaching Annual International Conference, Baltimore, MD, March 31-April 3, 2019.
17. **Luna, M. J.** (2018). Teachers' Knowledge of Noticing Appalachian Students' Thinking in Science. Poster presented at National Science Foundation Discovery Research PreK-12 PI Meeting, Washington, DC, June 6-8, 2018.
18. Selmer, S. J., **Luna, M. J.**, & *Murphy, A. N.* (2018). A Teacher Noticing and Responding to Students' Thinking in Classroom Artifacts. Paper presented at the American Educational Research Association Annual Meeting, New York City, NY, April 13-17, 2018.
19. Walkoe, J. & **Luna, M. J.** (2018). Taking an Interactive Analysis Approach to Teacher Learning in a Video Club. Poster presented at the American Educational Research Association Annual Meeting, New York City, NY, April 13-17, 2018.
20. *Murphy, A. N.,* **Luna, M. J**., & Rye, J. A. (2018). Roving with GigaPan Technology in a Garden-Based Science Learning Context. Paper presented at the National Association for Research in Science Teaching Annual International Conference, Atlanta, GA, March 10-13, 2018.
21. **Luna, M. J**. & *Murphy, A. N.* (2017). "Why Don't Apple Trees Grow in the Desert?": Exploring Children's Everyday Thinking in Science. Paper presented at the American Educational Research Association Annual Meeting, San Antonio, TX, April 27-May 1, 2017.
22. **Luna, M. J.** & Selmer, S. J. (2017). Noticing Students' Thinking in Classroom Artifacts from an Integrated Math and Science Unit. Poster presented at the American Educational Research Association Annual Meeting, San Antonio, TX, April 27-May 1, 2017.
23. *Murphy, A. N.* & **Luna, M. J.** (2017). "Why Do We See Stars Only at Night?": Exploring Children's Everyday Thinking in Science. Paper presented at the National Association for Research in Science Teaching Annual International Conference, San Antonio, TX, April 22-25, 2017.
24. *Murphy, A. N.* & **Luna, M. J.** (2016) Exploring Children's Everyday Thinking about Why We See Stars in the Sky at Night and Not During the Day. Poster presented at the West Virginia Science Teachers Association Annual Conference, Morgantown, WV, October 27-19, 2016.
25. **Luna, M. J.,** Selmer, S. J., & Rye, J. A. (2016). Teachers' Noticing of Students' Thinking in Science through Classroom Artifacts: In What Ways are Science and Engineering Practices Evident? Paper presented at the American Educational Research Association Annual Meeting, Washington, DC, April 8-12, 2016.
26. Coffey, J., Edwards, A., Elby, A., Gupta, A., Hammer, D., **Luna, M. J.,** Richards, J., Robertson, A., Russ, R., Sherin, M. G., & Walkoe, J. (2016). Differing Notions of Responsive Teaching Across Mathematics and Science: Does the Discipline Matter? Structured poster session at the American Educational Research Association Annual Meeting, Washington, DC, April 8-12, 2016.
27. *Murphy, A. N.,* **Luna, M. J.,** & Bernstein, M. (2015). Exploring the Relationship between Elementary Teachers' Scientific and Practitioner Selves. Poster presented at the Association of Science Teacher Educators International Conference, Portland, OR, January 7-10, 2015.

28. Berland, L, Braaten, M., Calabrese-Barton, A., Hutchison, P., Kang, H., Levin, D., **Luna, M. J.,** Russ, R., Schwarz, C., & Thompson, J. (2015). Developing, Refining, and Sustaining the Next Generation of Responsive Science Teaching. Symposium presented at the National Association for Research in Science Teaching Annual International Conference, Chicago, IL, April 11-14.

29. **Luna, M. J.,** Selmer, S. J., & Rye, J. A. (2015). Noticing Students' Thinking and the NGSS Practices in Student Artifacts. Paper presented at the National Association for Research in Science Teaching Annual International Conference, Chicago, IL, April 11-14.

30. *Murphy, A. N.,* **Luna, M. J.,** & Bernstein, M. (2015). Science as Experience, Exploration, and Experiments: Elementary Teachers' Notions of "Doing Science". Poster presented at the National Association for Research in Science Teaching Annual International Conference, Chicago, IL, April 11-14.

31. **Luna, M. J.,** Selmer, S. J., & Rye, J. A. (2015). Teachers' Noticing of Students' Thinking in Artifacts from a Garden-Based Learning Context. Poster presented at the American Educational Research Association Annual Meeting, Chicago, IL, April 16-20, 2015.

32. *Murphy, A. N.,* Bernstein, M., & **Luna, M. J.** (2015). Science as Experience, Exploration, and Experiments: Elementary Teachers' Notions of "Doing Science". Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL, April 16-20, 2015.

33. *Murphy, A. N.,* **Luna, M. J.,** & Rye, J. A. (2015). Teachers Rove with GigaPan Technology: Zooming in on Garden-Based Learning and STEM Teaching. Paper presented at the Mid-Atlantic ASTE Regional Conference, Lore City, OH, October 23-24, 2015.

34. *Ensign, T.,* Rye, J., & **Luna, M. J.** (2015). Imbedding Probeware Technology in Science Methods Courses for Preservice Elementary Teachers. Paper presented at the Mid-Atlantic ASTE Regional Conference, Lore City, OH, October 23-24, 2015.

35. *Murphy, A. N.,* **Luna, M. J.,** & Bernstein, M. (2014). Classrooms, Hospital Beds, and Backyards: How do These Scientific Experiences Relate to Elementary Teachers' Practitioner Selves? Poster presented at the Mid-Atlantic ASTE Regional Conference, Blowing Rock, NC, September 19, 2014.

36. Rye, J., & **Luna, M. J.** (2014). Integrating GigaPan with Elementary Science Methods to Enrich Preservice Teachers' Understandings About Garden-Based Learning and Connections to the Next Generation Science Standards. Paper presented at the Mid-Atlantic ASTE Regional Conference, Blowing Rock, NC, September 2014.

37. Selmer, S., **Luna, M. J.,** & Rye, J. (2014). Insights into Teachers' Experiences Implementing Garden-Based Learning. Poster presented at the American Educational Research Association Annual Meeting, Philadelphia, PA, April 4, 2014.

38. **Luna, M. J.** & Sherin, M.G. (2013). Supporting Teachers' Ability to Attend to Students' Thinking in Science. Paper presented at the Annual International Conference of the National Association for Research in Science Teaching, Rio Grande, Puerto Rico, April 6-9, 2013.

39. **Luna, M. J.** (2013). Elementary Teachers' Noticing Students' Science Ideas. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA, April 27-May 1, 2013.

40. **Luna, M. J.,** Selmer, S., Rye, J., & VanHorn, L.* (2013). What Makes our Garden Grow?: Supports and Challenges Teachers Encounter Implementing Garden-Based Learning with 2nd Graders. Paper presented at the Mid-Atlantic ASTE Regional Conference, Daniels, WV, September 20-21, 2013.

41. **Luna, M. J.** (2012). Elementary Teachers' In-the-Moment Seeing of Children's Science Thinking. In J. Umphress (Chair), *Gearing Up: New Technologies for Participant-Collected Data*. Symposium conducted at the American Educational Research Association Annual Meeting, Vancouver, Canada, April 13-17, 2012.

42. **Luna, M. J.** (2011). Supporting elementary teachers learning to see students' thinking in the science classroom. Paper presented at the Annual International Conference of the National Association for Research in Science Teaching, Orlando, FL, April 2011.

43. **Luna, M. J.** & Sherin, M.G. (2011). Developing expertise in attending to student thinking in science. Paper presented at the American Educational Research Association Annual Meeting, New Orleans, LA, April 2011.

44. Russ, R. & **Luna, M. J.** (2010). Merging two research traditions: Inferring teacher epistemological framing from patterns in teacher noticing. Poster presented at the American Educational Research Association Annual Meeting, Denver, CO, May 2010.

45. Luna, M. J. (2009). If I were king: Examining the relationship between standards-based reform policy and science teachers' curricular decisions. Paper presented at the American Educational Research Association Annual Meeting, San Diego, CA, April 2009.

46. **Luna, M. J.** (2009). Examining the relationship between science teachers' beliefs and curriculum materials. Paper presented at the American Educational Research Association Annual Meeting, San Diego, CA, April 2009.

47. **Luna, M. J.** (2008). Teachers' beliefs about science and the role of curriculum materials in teaching and learning. Paper presented at the American Educational Research Association Annual Meeting, New York City, NY, March 2008.

48. **Luna, M. J.** & Fitzpatrick, K. (2007). You gotta' know your kids: Knowledge of context in teaching. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL, April 2007.

49. **Luna, M. J.** (2007). Supporting pre-tenure faculty through a faculty development program. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL, April 2007.

TEACHING AND PROFESSIONAL EXPERIENCE

West Virginia University

Courses

SCFD 693B	Educational Research Literacy (Fall Semesters 2020-2021)
C&I 693D	Research Seminar: K12 Engineering Education (Spring 2019)
C&I 693H	Research on Teacher Cognition (Fall 2018)
C&I 640	Science in Elementary School (Fall Semesters 2013-2018)
C&I 795	Independent Study: Application of Qualitative Research Methodology to Examine Teacher Knowledge (Fall 2017-Spring 2018)
EDUC 440	Elementary-Early Childhood Science Methods (Spring Semesters 2014-2019)
C&I 797-798	Mentored Research/Dissertation Research (2014-present)
C&I 790	Mentored Teaching (2016-2019)

Graduate Advising

Doctoral Advisees (current):	Sahar Vali; Emily Helton
Graduate Research Assistants:	Ashley Kooken; Sahar Vali; Samantha Stout; Toi Hershman; Megan Hut
Doctoral Advisees (graduated):	Ashley Kooken; Taniya Chawla; Samantha Jusino

Undergraduate Supervising/Advising

Pre-Service Teachers in Clinical Placements
- AY 2017-2018: 8 students
- AY 2018-2019: 7 students
- AY 2019-2020: 5 students

Northwestern University Graduate Teaching Assistant

Courses

TEACH_ED 329	Health and Physical Development, w/ Joan Lampert (Winter 2010)
MS_ED 451	Using Video to Study Teaching & Learning (graduate), w/ Miriam G. Sherin (Fall 2009)
LRN_SCI 434	Teacher Thinking and Learning (graduate), w/ Miriam G. Sherin (Winter 2009)
LRN_SCI 425	Intro. to Design for the Learning Sciences (graduate), w/ Bruce Sherin (Fall 2008)

MS_ED 405 Learning and Teaching in Higher Education (graduate), w/ Gregory Light (Winter 2005)

Undergraduate Supervising/Advising

Undergraduate Research Assistants: Hannah Berkowitz; Julia Logan

Other Teaching/Professional Experience

2001-2011	Environmental Biology Instructor, College of Lake County, Grayslake, IL
2001-2005	Faculty Developer, Searle Center for Teaching Excellence, Northwestern University
1993-1997	Teacher: 5th Grade, 4th Grade, St. Joseph's Indian School, Chamberlain, SD

PROFESSIONAL SERVICE

Service to the Profession

Professional Organization Leadership

Secretary/Treasurer of the Learning Sciences Special Interest Group (LS-SIG) of the American Educational Research Association (2020-2021)

Secretary/Treasurer Elect of the Learning Sciences Special Interest Group (LS-SIG) of the American Educational Research Association (2019-2020)

Grant Proposal Reviewer

National Science Foundation (2015-present)

National Institute of Education, Singapore (2017)

Manuscript Reviewer

American Educational Research Journal
Cognition and Instruction
Journal of the Learning Sciences
Journal for Research in Mathematics Education
Journal of Science Education and Technology
Science Education
Science Activities
Studies in Science Education
Teaching and Teacher Education
The Rural Educator
ZDM Mathematics Education
School Science and Mathematics

Conference Proposal Reviewer and/or Session Presider

American Educational Research Association (AERA)
International Society of the Learning Sciences (ISLS)
National Association for Research in Science Teaching (NARST)

Advocacy for Federal Funding of Educational Research

Coalition for National Science Funding (CNSF) 24th Annual Exhibition, Featured Exhibitor (2018)

Capitol Hill Meetings with WV Senators and Representatives (AERA/CNSF sponsor; 2018)

Service to the Public

Teacher Professional Development

2017-present	Science Teaching and Learning Project
2016-2017	Noticing Students' Thinking in Science Across the Work of Teaching
Spring 2017	Implementing NGSS and a New Curriculum: Making Responsiveness to Students' Thinking Central to Your Science Teaching Practice
Summer 2015	Garden-Based Learning Summer Workshop for Educators
2014-2015	Mountaineer Educational CREATE Center: Using GigaPan Technology to Support Students' Thinking in STEM

2013-2014	Mountaineer Educational CREATE Center: Using GigaPan Technology to Support Students' Thinking in STEM
2010-2011	Science Teaching Video Club: Noticing Students' Thinking in Science
2008-2009	Implementing *Investigations in Environmental Science*: A Project-Based Science Curriculum (w/ Northwestern University and University of Michigan project team)

Other Work with Local, Regional, and State Agencies

Mylan Park Elementary School Faculty Liaison
North Elementary School Garden-Based Learning Program
West Virginia Department of Environmental Protection
West Virginia Department of Education Office of Child Nutrition
West Virginia Science Teachers Association
NASA IV&V Educator Resource Center

Service to the Department, College, and University

Committees

Research Integrity Committee, University Faculty Senate Standing Committee (member 2018-present)
Research and Engagement Committee, WVU College of Applied Human Sciences (advisor 2022-present)
Annual Review, Dept. Curriculum & Instruction/Literacy Studies (member 2015-16, 2017-2018, 2019-2020)
Annual Review, Dept. Communication Sciences and Disorders (member 2020-2021)
Graduate Programs, Dept. Curriculum & Instruction/Literacy Studies (member 2016-17)
Promotion and Tenure, Dept. Curriculum & Instruction/Literacy Studies (member 2014-15, 2017-18, 2019-2020)
Promotion and Tenure, Dept. Communication Sciences and Disorders (member 2020-2021)
Research, Service, and Professional Development, WVU College of Education and Human Services (member 2013-14; chair 2014-15 and 2015-16; ex officio 2016-17; chair 2020-2021)
Teacher Education Programs, WVU College of Education and Human Services (member 2013-2019)

Other Activity

Review of EdD and PhD Program Applicant Files
5-Year Teacher Education Program Exit Portfolio Review
College Brown Bag Research Presentations

Professional Affiliations

American Educational Research Association
International Society of the Learning Sciences
National Association for Research in Science Teaching