

DEARING BLANKMANN
Curriculum Vitae • May 2026

Department of Teacher Preparation, Stout School of Education, High Point University

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EDUCATION

- May 2023 University of North Carolina at Greensboro, Greensboro, North Carolina
Ph.D. in Teacher Education and Development (Science Education),
anticipated graduation May 2023
Dissertation: Science and Literacy Integration as a Locus for
Restorative Practices Professional Learning: A Mixed Methods Study
Dissertation Committee: Dr. Melody Zoch (Chair), Dr. Edna Tan, Dr.
Amy Vetter, Dr. Holt Wilson
- May 2014 University of North Carolina at Greensboro, Greensboro, North Carolina
Master of Arts in Teaching, Curriculum and Instruction (Elementary Education)
- April 2001 Antioch University, Yellow Springs, Ohio
Bachelor of Arts, Self, Society and Culture major

RESEARCH AND TEACHING AREAS

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|---|---|
| • Social Justice in Education and restorative practices | • Ambitious science teaching |
| • K-8 integrated science and literacy pedagogy | • Outdoor science education |
| • STEM education and equity | • Teacher and professional agency |
| • Engineering in the elementary grades | • Designing communities of practice |
| | • Teacher education, professional development |
| | • Responsive professional learning |

SCHOLARSHIP

PUBLICATIONS

Mercier, A., Duggan, A., **Blankmann, D.** (2024). Quantifying nature: Integrated science and mathematics instruction through nature journaling and five core routines, *Science and Children*, 61(3), 64 – 68.

Blankmann, D., Mercier, A., Carlone, H. (2023). Is only sticky important? Sensemaking through equitable discussion in a first-grade engineering lesson. In S. Jeong, L. Bryan, D. Tippins & C. Sexton (Eds.), *Navigating the challenges of elementary science teaching and learning: Using case-based pedagogy to understand dilemmas of practice*. Cham, Switzerland: Springer Nature.

Mercier, A., Metzger, S., **Blankmann, D.**, & Carlone, H., (2019). Can I build on that? Student-engaged talk stems from teachers' epistemological messages. *Science & Children*, 57(4), 48-53.

PUBLICATIONS FEATURED IN

Spangler, S. (2025). *The Engagement Effect*. Forefront Books. (Discusses the Burroughs Wellcome STEMtastic Adventures grant, Chapter 30, p. 263 – 268).

Kober, N. (2023). Rise and Thrive with Science: Teaching PK-5 science and engineering. National Academies Press, Washington, D.C. (Featured as Ms. Wallingdale case study on productive and equitable discourse, p. 126 – 131).

RESEARCH

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|------------|---|
| 2021 -2022 | Research Assistant, Bilingualtek: An integrated science-language approach for Latinx preschoolers – Dr. Lucia Mendez (P.I.), University of North Carolina at Greensboro, NC. Four year, NSF funded research project (2101169) a transformative model of early childhood science and language education supporting kindergarten readiness at a national level, addressing the vital need for educational resources that build on the strengths of underserved communities through the integration of bilingual digital texts and experiential learning. <ul style="list-style-type: none">• Designed storyline and co-wrote texts for three digital texts.• Consultant for curriculum design |
| 2017-2021 | Research Assistant, BRIDGES for socio-environmental good: Broadening Identities for Diverse Groups Engaging with STEM – Dr. Heidi Carlone (P.I.), University of North Carolina at Greensboro, Greensboro, NC. Three year, NSF funded research project (iTEST – 1657194) advancing efforts to better understand and promote practices that increase diverse students' motivations and capacities to pursue careers in environmental STEM careers. <ul style="list-style-type: none">• Develop and facilitated socio-ecological science and engineering curriculum (Saturday academies, Summer Institute, after-school program)• Assist in organizing data collection• Video and observation data collection• Interview youth participants• Administer and score youth STEM profile instruments• Qualitative data analysis |

- 2014-2021 STEM TLC Facilitator/Coach and Research Assistant, STEM Teacher Leader Collaborative (TLC) – Dr. Heidi Carlone (P.I.), University of North Carolina at Greensboro, Greensboro, NC. An ongoing research project supporting, celebrating, and sustaining teachers’ efforts to include enriching, rigorous, and responsive science and engineering instruction in elementary classrooms in high-needs schools, STEM TLC provides professional learning opportunities, science and engineering summer institutes, and multiple STEM support systems for teachers in the collaborative.
- Co-founder: designed and executed launching projects in partnership with the Department of Education Teach to Lead
 - Developed and facilitated science and engineering summer institutes
 - Coordinated and trained teacher leaders to be co-facilitators of summer institutes
 - Developed and facilitated bi-monthly professional learning, Communities of Inquiry program, bringing together teachers across schools in communities of practice
 - Organized data collection across multiple schools
 - Quantitative and qualitative data analysis – interviews, artifact analysis, discourse analysis
 - Designed research plans and interview and focus group protocols
 - Facilitated and organized the STEM TLC Lending Library to provide science and engineering resources to area teachers
 - Conducted STEM Coaching and curriculum co-planning with STEM TLC teachers
 - Co-facilitated weekly webinars Summer 2020 to support our teachers through their Covid-19 teaching experiences
 - Facilitated teacher leader writers to create a digital library of lessons for teachers to use both remotely and with face-to-face teaching
 - Organized and facilitated STEM backpack program to provide hands-on science materials for students learning remotely in response to Covid-19

GRANTS

STEM Enrichment Program Award, #1169931, Burroughs Wellcome Fund, Co-PI with Dr. Amy Holcombe, August 2023 – August 2026

TEACHING AND COACHING EXPERIENCE

Spring 2026 **EDU 3232.01/02 Integrated Practicum for the Elementary Classroom**
(instructor), High Point University

EDU 4166.01/02 Using Data to Make Instructional Improvements
(instructor), High Point University

EDU 5055.01 Design Thinking and Creative Thought
(instructor), High Point University

Fall 2025

EDU 4200.01 Diverse Learners and Culturally Relevant Pedagogy
(instructor), High Point University

EDU 4233.01/ 02 Integrated Principles of Science and Math
(instructor), High Point University

EDU 5133.01 Integrated Principles of Science and Social Studies
(instructor), High Point University

EDU 5233.01 Connected Systems and Interdependence in Science
(instructor), High Point University

Summer 2025

EDU 5137: STEM in the Elementary Classroom
(instructor), High Point Elementary

EDU 5234 Practicum Infused STEM K-6
(instructor), High Point Elementary

Spring 2025

EDU 3232.01/02 Integrated Practicum for the Elementary Classroom
(instructor), High Point University

EDU 4166.01/02 Using Data to Make Instructional Improvements
(instructor), High Point University

EDU 5055.01 Design Thinking and Creative Thought
(instructor), High Point University

Fall 2024

EDU 4233.01/ 02 Integrated Principles of Science and Math
(instructor), High Point University

EDU 5133.01/4533.01 Integrated Principles of Science and Social Studies
(instructor), High Point University

EDU 5233.01 Connected Systems and Interdependence in Science
(instructor), High Point University

Summer 2024	EDU 5137: STEM in the Elementary Classroom (instructor), High Point Elementary
	EDU 5234 Practicum Infused STEM K-6 (instructor), High Point Elementary
Spring 2024	EDU 3232. 01/02 Integrated Practicum for the Elementary Classroom (instructor), High Point University
	EDU 4166-01/02 Using Data to Make Instructional Improvements (instructor), High Point University
	RES 4802-01 Residency License Teaching Support II (instructor), High Point University
Fall 2023	EDU 4233.01/ 02 Integrated Principles of Science and Math (instructor), High Point University
	EDU 5133.01/4533.01 Integrated Principles of Science and Social Studies (instructor), High Point University
Summer 2023	TED 370 MAT Science Education in Elementary School (online instructor), University of Greensboro
Spring 2023	TED 370 Science Education in Elementary School (instructor), University of North Carolina at Greensboro
Fall 2021	TED 370 Science Education in Elementary School (instructor), University of North Carolina at Greensboro
Fall 2019 – Spring 2022	STEM Support (coach) UNCG Moss Street Partnership School, Reidsville, NC
Fall 2018	TED 519 MAT Science in Elementary School (co-instructor), University of North Carolina at Greensboro
Fall 2016 – present	UNCG STEM Teacher Leader Collaborative (facilitator/coach), University of North Carolina Greensboro
July 2015 - 2019 2022 – 2023	UNCG Young Writers Camp (writing instructor K-2, 3rd; MAT literacy instructional coach), University of North Carolina at Greensboro
2015 - 2018	Elementary Teacher (K, 1st, and 4th Grades), Murphey Traditional Academy, Greensboro, NC

2014-2015	Elementary Teacher (3rd Grade) Hampton Elementary School, Greensboro, NC
2006-2012	Elementary Teacher (PK-4, combined 1st/2nd) United Friends School, Quakertown, PA
2009-2012	School Garden Coordinator (PK-8th)

PRESENTATIONS

A. National Conferences

Blankmann, D., Brown, Q., Cormier, J., Hyder, S., Kelly, M., Lanier, A., Marshall, P, Michaud, E., Riascos, N. (April 2026). Building stronger classrooms through connected communities: the transformative power of collaborative professional development, National Science Teachers Association Conference, Anaheim, CA.

Blankmann, D., Carlone, H.B., & Mercier, A. (April 2022). Socioecological care as relational practice: A grounded theory of affectionate knowing. Paper presented at the 2022 annual meeting of the American Educational Research Association, San Diego, CA.

Carlone, H., **Blankmann, D.**, & Mercier, A. (April 2020). An analysis of “care” in a place-based STEM enrichment program for middle school youth. Structured poster session at the annual meeting of the American Educational Research Association, San Francisco, CA. Canceled because of COVID-19.

Carlone, H., **Blankmann, D.**, Lovett, M., & Mercier, A. (March 2020). Youth as conservationists, altruists, inventors, and investigators: Designing for multi-faceted identities. Paper to be presented at the annual meeting of the National Association for Research in Science Teaching, Portland, Oregon. Canceled because of COVID-19.

B. Regional Conferences

Blankmann, D. (November 2025). Building Community through Science Talks: Fostering Collaboration and Communication. Presentation at the Professional Development Institute, North Carolina Science Teachers Association, Winston-Salem, NC.

Blankmann, D. (November 2024). STEM Equity through an Ambitious Science Teaching Framework. Presentation at the Professional Development Institute, North Carolina Science Teachers Association, Winston-Salem, NC.

Blankmann, D., Johnson, Reba. (November 2023). Making Time for Authentic Science Experiences Through Curricular Integration. Presentation at the Professional Development Institute, North Carolina Science Teachers Association, Winston-Salem, NC.

Carlone, H., **Blankmann, D.**, Ferguson, C., Jackson, M., Mercier, A., & Singleton, K. (November 2019). Kids as investigators, makers, inventors, and conservationists: UNCG BRIDGES Program. Presentation at the Professional Development Institute,

North Carolina Science Teachers Association, Winston-Salem, NC.

Mercier, A., Carlone, H., **Blankmann, D.** & Kelly, M. (November 2019). Nurturing STEM equity in elementary school: UNCG's STEM Teacher Leader Collaborative. Presentation at the Professional Development Institute, North Carolina Science Teachers Association, Winston- Salem, NC.

Mercier, A. & **Blankmann, D.** (October 2019). Empowering STEM teacher leaders and supporting STEM in highly impacted schools: UNCG's STEM Teacher Leader Collaborative. Presentation at the Bridging the Gap Conference. Raleigh, NC.

Mercier, A., **Blankmann, D.**, Winchell, S., & Stallings, S. (October 2018). UNCG STEM Teacher Leader Collaborative: Support for STEM in Highly Impacted Schools. Presentation at North Carolina Association for Colleges and Teacher Educators. Raleigh, NC.

Blankmann, D., Carlone, H., Mangrum, J., Marchi, K., Moore, A., Moore, H. (October 2017). Elementary engineering: Ideas from the UNCG STEM Teacher Leader Collaborative. Presentation at the annual Professional Development Institute at the North Carolina Science Teachers Association, Greensboro, NC.

Carlone, H.B., **Blankmann, D.**, Jones, A., Lancaster, M., & Mangrum, J. (November 2016). Kids love to engineer! How do elementary teachers teach engineering design? Presentation at the Professional Development Institute for the North Carolina Science Teachers Association, Greensboro, NC.

C. Select Presentations/Workshops for/with University and Community Groups

Science EOG Preparation professional development workshop in collaboration with Guilford County Schools; May 12, 2026

STEM Saturday Series, professional development workshops; October 4, 2025; November 15, 2025; April 11, 2026

STEMtastic Adventures Year One poster presentation, Burroughs Wellcome Awardee Conference, November 19 – 20, 2024

STEM Teaching, Learning and Leading CoLaboratory; facilitator of monthly September 2025 – April 2026

Experiential Learning and engineering in the elementary classroom; Union Hill Elementary School faculty, administration, staff, August 19 and August 22, 2024

Investigating States of Matter with Play Dough in K-2, Prepare/STEM TLC workshop, April 6, 2023

Exploring Wind Energy in 3-5, Prepare/STEM TLC workshop, April 13, 2023

STEM TLC Summer Institute (with Dr. Alison Mercier, Rita Jennings), June 27 - 28, 2023,

UNCG

STEM TLC Advanced Summer Institute (with Dr. Alison Mercier, Rita Jennings), August 1 - 3, 2023, UNCG

STEM TLC STEMergizing Saturday (with Dr. Alison Mercier, Rita Jennings), April 22, 2023, UNCG

STEM TLC Summer Institute (with Dr. Alison Mercier, Rita Jennings, Annabelle Jones, Amy Jamison), July 25 - 27, 2022, UNCG

STEM TLC Advanced Summer Institute (with Dr. Alison Mercier, Rita Jennings), June 9 – 10, 2022, UNCG

STEM TLC STEMergizing Saturday (with Dr. Alison Mercier, Rita Jennings), February 5, 2022, UNCG

STEM TLC Leadership Lab (with Dr. Alison Mercier, Rita Jennings), October 23, 2021, UNCG

STEM TLC Webinar Series (with Dr. Heidi Carlone, Dr. Alison Mercier, local teachers, and national guests). A responsive professional development series of 20 webinars during March 2020 after schools shut down due to COVID-19

The STEM Teacher Leader Collaborative (TLC). Presentation to the Cemala Board, Greensboro, NC, October 2019. (with Heidi Carlone & Alison Mercier), UNCG

Greater Greensboro Reading Council. Presentation on integrating STEM and literacy, Greensboro, NC, October 2019

Introductory Summer Institute: STEM TLC (with Dr. Heidi Carlone, Alison Mercier, Rita Jennings, Courtney Ferguson, Daphne McLaurin, Amanda Pickett, Katie Ramirez, Sarah Stallings), August 6, 2019-August 8, 2019, UNCG

STEM Teacher Leader Collaborative Leadership Lab. A community charette-style day-long workshop with 50 stakeholders (with Dr. Heidi Carlone, Dr. Jennifer Mangrum, Rita Jennings, Heather Moore, Emily Davis), October 2017, UNCG

STEM Teacher Leader Collaborative. Rotary Club of Greensboro presentation, August 2017.

UNCG STEM Teacher Leader Collaborative: Nurturing STEM equity. Empowering teachers. Presentation for the UNCG STEM TLC Leadership Lab, in collaboration with ASCD & US DOE. (With Dr. Heidi Carlone, Dr. Jen Mangrum, Emily Davis, Rita Jennings, Heather Moore, Claudia Walker) November 2017, U.S. Department of Education, Washington D.C.

UNCG STEM Teacher Leader Collaborative: Introductory Institute, June 2017. UNCG STEM Teacher Leader Collaborative: Advanced Institute, June 2017.

UNCG STEM Teacher Leader Collaborative Launch at Teach to Lead Summit (with Dr. Heidi Carlone, Dr. Jennifer Mangrum, Heather Moore, and Eliana Berger), U.S. Department of Education, Washington D.C., November 2016

PROFESSIONAL SERVICE ACTIVITIES

November 2024 – present, North Carolina Science Teachers Association, Board of Directors, District 5, North Carolina

August 2024 – June 2025, STEM Teaching and Learning CoLaboratory, High Point University, High Point, NC

2023 – 2024 STEM Teacher Leader Collaborative, co-founder, co-facilitator, (STEM TLC), High Point University, High Point, NC

2015 – 2023 UNCG STEM Teacher Leader Collaborative, co-founder, co-facilitator, (UNCG STEM TLC), University of North Carolina Greensboro

March 2019 U.S. Department of Education, Teach to Lead Summit, critical friend, Philadelphia, PA

September 2018 U.S. Department of Education, Teach to Lead Summit, critical friend, San Jose, CA

March 2018 U.S. Department of Education, Teach to Lead Summit, Nashville
November 2018 U.S. Department of Education, Teach to Lead Summit, Washington. D.C.

July 2015 - 2018 National Paideia Center, Faculty, Asheville, NC

January 2015-June 2015 National Paideia Center, Faculty Candidate, Asheville NC

August 2011-June 2012 United Friends School Professional Learning for Equity, co-facilitator, Quakertown, PA

TEACHING LICENSE

North Carolina Standard Professional Educator's License K-6

PROFESSIONAL AFFILIATIONS

American Educational Researcher Association
Association for Science Teacher Education
National Science Teacher Association
National Association for Research in Science Teaching
North Carolina Science Teacher Association
The International Society of the Learning Sciences