BRANDY NICOLE CROWLEY

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EDUCATION

Ph.D.	•	ersity, Curriculum and Instruction : Mathematics Education	August 2021
	Dissertation: Preservice Teacher's Purposeful Questioning: A Descriptive Case Study of Elementary Mathematics Preservice Teachers		
	Dissertation Committee: Sandi Cooper, Ph.D. (Chair), Rachelle Meyer Rogers, Ed.D., T. Philip Nichols, Ph.D., and Tommy Bryan, Ph.D.		
M.Ed.	Texas A&M	University, Curriculum and Instruction	August 2016
B.S.	Sam Houstor	Sam Houston State, Education Interdisciplinary Studies May 2	
CERTIFI	CATIONS		

Texas Standard Teaching Certificate

Elementary Self-Contained Grades (1-8) English as a Second Language Grades (1-8) Elementary English Grades (1-8) Mathematics Grades (4-8)

PROFESSIONAL EXPERIENCE

2025 - present	<i>Director of Elementary Education</i> The Teachers College, Emporia State University
2025 - present	Associate Professor The Teachers College, Emporia State University
2024 - 2025	Program Lead, Elementary Education – Face-to-Face & Distance Education The Teachers College, Emporia State University
2023 - 2024	Program Lead, Elementary Education – Main Campus The Teachers College, Emporia State University

2023 - 2025	Assistant Professor The Teachers College, Emporia State University
2021 - 2023	Assistant Professor Elementary Education, Early Childhood, and Special Education, Emporia State University
2021 - present	<i>Lecturer</i> EdD Online in Learning and Organizational Change, Baylor University
2017 - 2021	Teacher of Record and Graduate Assistant Curriculum and Instruction, Baylor University
2017 – 2021	Program Coordinator, Math for Early Learners Academy Partnership with Baylor University, Waco ISD, La Vega ISD, Mayborn Museum
2017 - 2020	Coordinator, Mathematics Education Lab Mathematics Education Program, Baylor University
2016	<i>Trainer for Texas Mathematics Academy</i> – 3 rd Grade Texas Education Agency

PUBLICATIONS, PEER REVIEWED

- McCall, M., Shelton, R.N., Crowley, B.N., & Ritter, K. (2023). Doctoral student perceptions of a project-based learning approach in an instructional design course. *Impacting Education: Journal on Transforming Professional Practice*, 8(3), 1-9. <u>https://doi.org/10.5195/ie.2023.366</u>
- Cooper, S., **Crowley, B**., Matsuo, H., & Donham, M. (2022). Mathematics Courses Matter: Preparing PSTs for Certification. *Journal of Mathematics Teacher Education in Texas*, *12(3), 4-7*. <u>https://amte-tx.com/wp-content/uploads/2023/01/JMTET-Winter-2022.pdf</u>
- Cooper, S., Shelton, R.N., Padgett, N., Crowley, B., Kerschen, K., & Donham, M.P. (2022). The impact of a summer intervention focused on foundational concepts of number sense for early learners. *Investigation in Mathematics Learning*. <u>https://doi.org/10.1080/19477503.2022.2073120</u>
- Schwerdtfeger, S., Hill, T., Crowley, B., Caballero, M., & Udell, A. (2022). *Anchoring mathematics practices to teaching*. Kendall Hunt.

Rogers, R., McCall, M., & Crowley, B.N. (2021). Implementing Co-teaching: What mentors believe and what they do. *School-University Partnerships*, 14(2), 105-114.

PUBLICATIONS, OTHER

- Shelton, R.N., Kerschen, K., **Crowley, B.N.,** & Cooper, S. (accepted). Building a collaborative partnership to support early learners in mathematics during a summer experience at a museum. *International Perspectives on Mathematics Outreach*
- Crowley, B.N., Roberts, C., & Donham, M. (2020). Find the mathematics...in donuts! *Texas Mathematics Teacher*, 66(2), 17-18.
- Crowley, B. N. & Harper, T. D. (2019). *Math by the month: Field trips*. Teaching Children Mathematics, 25 (5), 272-273.
- **Crowley, B. N.** & Harper, T. D. (2019). *Math by the month: The A-town neighborhood.* Teaching Children Mathematics, 25 (6), 336-337.
- **Crowley, B.** (2018). Find the Mathematics in the Pumpkin Patch! *Texas Mathematics Teacher*, 64(2), 14.
- Crowley, B. & Shelton, R. (2018). Find the Mathematics in Butterflies. *Texas Mathematics Teacher*, 64(1), 21.
- Crowley, B. (2017). Find the Mathematics in Bridges. Texas Mathematics Teacher, 63(2), 22.

PUBLICATIONS, IN DEVELOPMENT

- Donham, M., Ritter, K., Cooper, S., **Crowley, B.N.,** Smith, M., & Jones, L. Learning to notice in video clubs: Preservice teacher noticing in a summer math field experience. *Action in Teacher Educator*.
- **Crowley, B.N.,** Warren, M.L., Cooper, S., Donham. M., Ritter, K., Salisbury, K., & Eubank, M. PSTs' in-the-moment responses to student's mathematical thinking: Exploring teacher moves in an alternative field experience. *School Science and Mathematics Journal*.
- Warren, M.L., Salisbury, K., Crowley, B.N., Cooper, S., & Donham. M. What did you notice? Exploring elementary preservice teachers' in-the-moment noticing during a varied field experience. *Journal of Early Childhood Teacher Education*.

INTERNAL FUNDING

- \$991.64 Crowley, B. (2022). *Promoting Access and Equity in Mathematics*. Resources supported by the Kathrine K. White Faculty Incentive Grant Program.
- \$7,500 Cooper, S. & **Crowley, B.** (2019-2020). *Developing an Assessment of Early Number Sense for Pre-Kindergarten and Kindergarten Children*. Research project supported by the University Research Committee at Baylor University.
- \$30,000 Cooper, S. & Crowley, B. (2018). *Math for Early Learners Academy*, Continued project supported by the School of Education in partnership with Waco ISD and Mayborn Museum.

EXTERNAL FUNDING

- \$1.8M Cooper, S., Morgan, G., Padgett, N., Crowley, B., & Ketterlin Gellar, K. (2020). Kindergarten Readiness in Math: Developing an Intervention Curriculum and Assessment of Early Number Sense for Prekindergarten and Kindergarten Children. Proposal submitted to the National Science Foundation DRK12. (Not funded)
- \$55,337 Cooper, S. & Crowley, B. (2020). Mathematics for Early Learners Academy: A Summer Learning Experience Focused on the Development of Early Number Sense. Proposal submitted to Honda Foundation. (Not funded)
- \$399,774 Cooper, S., Crowley, B., Padgett, N., & Morgan, G. (2020). Kindergarten Readiness in Math: Developing an Intervention Curriculum and Assessment of Early Number Sense for Prekindergarten and Kindergarten Children. Proposal submitted to the Spencer Foundation, Research-to-Practice Grants Program. (Not Funded)
- \$75,000 Cooper, S. & Crowley, B. (2019) *Math for Early Learners Academy*, Project supported by the Cooper Foundation, Waco, Texas.

CONFERENCE PRESENTATIONS, PEER-REVIEWED

- Cline, E., Shave, M., & Crowley, B. (November 2024). *Developing pre-service teachers' mathematical questioning*. Presented at the School Science and Mathematics Association Conference, Knoxville, TN.
- **Crowley, B.,** Neff, A., Cline, E., Shave, M., & Arthur, S. (November 2024). *Fostering future educator*'s fraction confidence. Presented at the School Science and Mathematics Association Conference, Knoxville, TN.

- Shave, M., Arthur, S., Cline, E., Neff, A., & Crowley, B. (November 2024). *Inquiry, instruction, and technology...oh my*! Presented at the School Science and Mathematics Association Conference, Knoxville, TN.
- Crowley, B., Cline, E., Neff, A., & Shave, M. (October 2023). *Purposefully using Problem-Based Lessons to Support Young Mathematicians*. Presented at the National Council of Teachers of Mathematics Annual Meeting, Washington, D.C.
- Cline, E., Shave, M., Neff, A., & Crowley, B. (October 2023). *Purposeful Questioning in the Elementary Classroom*. Presented at the National Council of Teachers of Mathematics Annual Meeting, Washington, D.C.
- Cooper, S., Smith, M., & Crowley, B. (October 2023). *Empowering Girls in Mathematics: Let's Reveal the Contributions of Historically Excluded Women*. Presented at the National Council of Teachers of Mathematics Annual Meeting, Washington, D.C.
- Cooper, S., Donham, M., Ritter, K., Warren, M., Salisbury, K., Eubank, M., & Crowley, B. (February 2023). *Learning to Notice in Video Clubs: Preservice Teacher Noticing during a Varied Field Experience*. Presented at the Annual Conference of the Association of Mathematics Teacher Educators, New Orleans, LA.
- Ritter, K., Cooper, S., Crowley, B., Donham, M., Warren, M., Salisbury, K., & Eubank, M. (October 2022). *Learning to Notice in Video Clubs: Preservice Teacher Noticing in a Summer Math Field Experience*. Presented at the School Science and Mathematics Association Conference, Missoula, MT.
- **Crowley, B.** (October 2022). *Preplanning Purposeful Mathematics Questions*. Presented at the School Science and Mathematics Association Conference, Missoula, MT.
- **Crowley, B.** (February 2022). *Elementary Mathematics Preservice Teachers' Purposeful Questioning*. Presented at the Association of Teacher Educators Annual Meeting, Chicago, IL.
- Cooper, S., Bailey, K., Donham, M., Salisbury, K., Warren, M., Eubank, M., & **Crowley, B.** (February 2021). *PST noticing: Reflecting after watching their own videos*. Presented at the Research Council on Mathematics Learning Virtual Conference.
- Cooper, S., Donham, M., & Crowley, B. (February 2021). *Geometry for early childhood: The important thing is...?* Presented at the Association of Teacher Educators, Virtual Annual Meeting.

- **Crowley, B.**, Cooper, C., & Donham, M. (February 2021). *Building number line concepts while measuring*. Presented at the National Council of Teachers of Mathematics Virtual Conference.
- Donham, M., Salisbury, K., & Crowley, B. (February 2021). *Using Desmos in elementary grades*. Presented at the National Council of Teachers of Mathematics, Virtual Annual Meeting.
- Rogers, R., McCall, M., & Crowley, B. (February 2021). *Implementing co-teaching: What mentors believe and what they do.* Presented at the Association of Teacher Educators, Virtual Annual Meeting.
- Harper, T., & Crowley, B. (February 2021). *Syllabi review through a social justice lens*. Presented at the Association of Teacher Educators, Virtual Annual Meeting.
- Cooper, S., Crowley, B., Salisbury, K., Warren, M., Eubank, M., Donham, M., & Bailey, K. (February 2021). *PST noticing: Reflecting after watching their own videos*. Presented at the Annual Conference of the Research Council of Mathematics Learning, Virtual Conference.
- **Crowley, B.** (February 2021). *Preservice teacher questioning in the mathematics classroom.* Presented at the Baylor Emerging Research Virtual Conference.
- Eubank, M., **Crowley, B.**, Warren, M., & Cooper, S. (November 2019). *Teacher noticing in a varied field experience*. Presented at the School Science and Mathematics Association, Salt Lake City, UT.
- Coopers, S. & Crowley, B. (September 2019). *Measurement: What's a line got to do with it?* Presented at the Texas Association for the Education of Young Children, Frisco, TX.
- Cooper, S., Salisbury, K., **Crowley, B.**, & Warren, M. (February 2019). *The development of teacher noticing for PSTs in a varied field experience*. Presented at the Association of Mathematics Teacher Educators, Orlando, FL.
- Cooper, S., & Crowley, B. (October 2018). *5E lesson planning in the elementary mathematics classroom*. Presented at the School Science and Mathematics Association, Little Rock, AR.
- Eubank, M., & Crowley, B. (September 2018). Got skills!: exploring pre-service teacher's knowledge of prerequisite skills in the elementary mathematics classroom. Presented at The American Association for Teaching & Curriculum, Dallas, TX.

- Cooper, S., & Crowley, B. (September 2018). *Engaging, exploring, explaining, elaborating and evaluating in the elementary mathematics classroom*. Presented at the Association of Mathematics Teacher Educators in Texas, Nacogdoches, TX.
- **Crowley, B.** (January 2018). *Length and capacity and weight, oh my!* Presented at the Central Texas Council of Teachers of Mathematics, Waco, TX.
- Wilkerson, T., Warren, M., Eubank, M., Crowley, B., & Hamilton, K. (February 2018). Mathematics immersion: an investigation of problem solving perceptions. Presented at the Research Council on Mathematics Learning, Baton Rouge, LA.
- Cooper, S., Wilkerson, T., Kerschen, K., Shelton, R., & Crowley, B. (February 2018). *Varied field experiences for preservice teachers in a math academy*. Presented at the Research Council on Mathematics Learning, Baton Rouge, LA.
- Rogers, R., Osborne, L., McCall, M., & Crowley, B. (March 2016). Our next generation of co-teachers in secondary clinical experiences: challenging teachers to move beyond their favorite co-teaching models. Presented at the National Association for Professional Development Schools Conference, Jacksonville, FL.

CONFERENCE PRESENTATIONS, OTHER

- **Crowley, B.** (March 2024). *Promoting reasoning and problem solving with the Poster Method.* Presented at the Kansas Association of Teachers of Mathematics Conference, Liberal, KS.
- Crowley, B. (March 2023). A Caring Mathematics Community working on Self-Management and Interpersonal Skills. Presented at the Kansas Association of Teachers of Mathematics Conference, Emporia, KS.
- Robert, T., Shave, M., & Crowley, B. (November 2022). *Finding Potential Teachers In Your OWN District*. Presented at KASB 2022 Annual Convention, Wichita, KS.
- Crowley, B. (April 2022). *Multiplying with Lego* ®. Presented at Emporia State University, The Teachers College Lego Fest, Emporia, KS.
- Crowley, B. (March 2022). *Utilizing representations in high quality math tasks*. Presented at the Kansas Association of Teachers of Mathematics Conference, Emporia, KS.

RESEARCH PROJECTS

AIM Project (November 2018- June 2019). Served as Social Science/Humanities Research Associate II at University of Texas-Austin, AIM Project coordinated by Dr. Diane Bryant, Project Director and Professor, Department of Special Education

UNIVERSITY TEACHING EXPERIENCE

Emporia State University, Emporia, KS	2021-Current
Course Instructor	
• EE 320: Observing Teaching and Learning Modules	Fall 2024 - Current
• EL 750: Classroom Management & Positive Behavior Support (Undergraduate and Graduate Courses)	Summer 2024
• Intern Supervisor	Spring 2022 - Current
• EE 317: Elementary Mathematics Methods	Spring 2022 - Current
• EL 375 Elementary Ethics and Law	Spring 2022 - Summer 2022
• EL 350: Math Application for the Elementary Classroom	Summer 2021 - Current
Honors Contract Course	Fall 2021
• EL 751: Application of Developmental Theories (Graduate Course)	Summer 2022, Fall 2021, Spring 2022, Spring 2023, Fall 2023
• EL 802:Best Practice in Elementary Mathematics (Graduate Course)	Summer 2021 - Fall 2022
Baylor University, Waco, TX	2016 – Current
Course Instructor	
• EDC 6360: Instructional Design (Graduate Course)	Summer 2021 - Current
• EDC 5305: Model of Teaching and Learning (Graduate Course)	Summer 2021

• TED 4623: Internship Elementary Part IV	Spring 2021
• TED 4622: Internship Elementary Part III	Spring 2021
• TED 4620: Internship Elementary Part I	Fall 2020
• TED 4621: Internship Elementary Part II	Fall 2020
• TED 4326: Mathematics in the Elementary Grades	Spring 2019 - Spring 2021
• TED 2831: American Education Thought	Fall 2017 - Spring 2018
Courses Co-Instructor	
• TED 4326: Mathematics in the Elementary Grades	Fall 2018
• EDC 6340: Research on Teacher Noticing in Mathematics (Graduate Course)	Summer 2020
Courses Shadowed	
• TED 4326: Mathematics in the Elementary Grades	Spring 2018
Invited Speaker	
• TED 4326: Mathematics in the Elementary Grades	Fall 2017
• TED 4336: Mathematics in the Early Grades	Fall 2017
• TED 4349: Critical Issues in Mathematics Education	Spring 2028
• TED 4621: Internship Elementary Part II	Spring 2019
• TED 4348: Secondary Math Methods	Fall 2019

PK-12 TEACHING EXPERIENCE

District Instructional Coach: K-6th grade Math Coach, Conroe ISD

- Participated in coaching cycles to grow teachers' capacity (modeled, observed, and provided teachers with feedback).
- Participated in Professional Learning Communities to increase teachers' content knowledge on various campuses.
- Created and presented staff developments for campuses and the district based on teacher needs

2nd Grade at San Jacinto Elementary, Conroe ISD

- Trained campus on Marzano's 6 Strategies to improve vocabulary acquisition.
- Invited by principal to attend the Conroe ISD Leadership Training sessions.
- Presented Nearpod training for Campus Staff Development as a way to integrate technology into the classroom.
- Taught through Guided Math to reach all learners (2013-2015). •

2nd and 3rd Grade at Creighton Elementary, Conroe ISD

- Looped with students to third grade when data showed that student success dropped drastically from 2nd to 3rd grade (2011-2012).
- Sparked campus interest in Daily 5 Reading Centers as a way to improve reading scores and keep students interested in reading.
- Participated in 2nd Grade Math Scope and Sequence Development (2011).
- Mentored new teachers, many of which have gone to receive their masters in areas such as counseling and/or administration.

Title I Math/Science Coach: Creighton Elementary, Conroe, ISD

- Provided math training to campus based on current needs.
- Disaggregated campus data in order to celebrate successes and find trends and weaknesses that we could improve on.

4th Grade at Creighton Elementary, Conroe ISD

- Organized campus booth for District Sci://Tech Fair in an effort to get students and parents excited about science and school (2004-2006).
- Used pre-assessments to compact lessons for Gifted Students.
- Worked as a member of the Site Based Decision Making Team to make decisions about technology upgrades and generated a 3-year purchase plan as well as collaborating to create new school rules and expectations (2004-2006).

5th Grade at Jackson Elementary, Lamar Consolidated ISD

• Participated in school-wide decision making as a Site Based Decision Making member (2002-2003).

2009-2013

2003-2008

2008-2009

2013-2015

2015-2017

2001-2003

INVITED PROFESSIONAL DEVELOPMENT WORKSHOP PRESENTATIONS

- Crowley, B. (January 2024). *Fluency Workshop*. Presented at Southern Lyon County In-Service with elementary through high school teachers, Olpe, KS.
- **Crowley, B.** (February 2023). *Cuisenaire Rods and Improving Questioning*. Presented at Osage City Math Professional Development with 3rd-5th grade teachers, Osage City, KS.
- **Crowley, B.** (April 2022). *Multiplying with Lego*®. Presented at LegoFest at Emporia State University, Emporia, KS.
- Cooper, S., & Crowley, B. (Spring 2021). *Early Number Concepts*. Presented to Prekindergarten Teachers at La Vega Primary, Waco, TX.
- **Crowley, B**. (June 2019). *Smaller, shorter, longer, taller*. Presented at Mathematics for Teachers of Early Learners (MTEL) professional development, Waco, TX.
- **Crowley, B**. (July 2018). *The Triangle Task*. Presented at The Mathematics Teacher Academy (MTA) hosted by the Department of Curriculum and Instruction Baylor School of Education, Waco, TX.

SERVICE

Program Service:	
Motivate & Elevate Committee	2023 - present
Admissions Committee	2023 - present
Prospective Student Visits	2022 - present
Search 1665 Committee Member	Spring 2024
Flint Hills Technical College Apply Kansas Event	November 9, 2023
Search 1193 Committee Chair	Spring 2023
Search 836 Committee Member	Spring/Summer 2022
China ANHU Partnership	Spring 2022

College Service:

Emporia Teacher Council	Fall 2024
ESU/USD 253 Administrative Council	Fall 2023 - present
Committee on Initial Programs (CIPS) *Previously Initial Programs Leads/Directors Meeting	Fall 2023 - present
Mentor to New Faculty	Fall 2022 - present
General TTC Scholarship Committee Member	Academic Year 2024 - 2025
Virginia Engly Memorial Scholarship TTC Committee Member	Academic Year 2024 - 2025
Search Committee Member for TTC Dean's Position	Spring/Fall 2024
Together Forward Campaign Showcase	February 17, 2024
Dean's Innovation and Creativity Fund Committee	2022 - 2023
TTC Committee for Strategic Planning	2022
Faculty Advisor for Kansas NEA - Aspiring Educators Club (Emporia State Chapter)	Fall 2021 - Spring 2023

University Service:

Faculty Recognition Documents Task Force	Spring 2024 - present
University Diversity and Inclusion Alliance as representative of The Teachers College	2023 - present
Emporia High School Scholarship Admissions Visit	December 5, 2023
Retention Action Team Member *Co-chair Academic Year 2022 - 2023)	Fall 2022 - Fall 2023
Judge for ESU SPURS Homecoming Royalty	Fall 2021

Other Service

Southern Lyon County Elementary In-Service	January 15, 2024
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Osage City Math Professional Development	February 20, 2023
TTC Representative for Rotary Club of Emporia Award Committee	Spring 2022
Kappa Delta Pi International Honor Society in Education Beta Xi Chapter, Vice President	2019 - 2020
Graduate Student Association Department Representative, Baylor University	2019 - 2021
Professional Service	
School Science and Mathematics Association Awards and Endowment Committee	2024 - 2027
School Science and Mathematics Association Publications Committee	2020 - 2023
Conference Coordinator, Math for Teachers of Early Learners	2018, 2019
NCTM Representative, Central Texas Council of Teachers of Mathematics *Collaborated to organize Fall and Spring Professional Development Opportunities	2018 - 2020
Local Arrangement Committee Chair, Association of Mathematics Teacher Educators in Texas	2019
Manuscript Reviewer	
Action In Teacher Education	2021 - 2024
Special Issue of School University Partnerships Journal	2023-2024
Article Reviewer for School University Partnerships Journal	2023, 2024
Journal of Mathematics Teacher Education in Texas	2018, 2022
Conference Proposal Reviewer	
Association of Mathematics Teacher Educators	2022
Conference Proceeding Reviewer	
School Science and Mathematics Association	2022, 2023, 2024

Grant Reviewer

Kappa Delta Pi International Honor Society Teacher Grants

PROFESSIONAL ORGANIZATION MEMBERSHIP

Kansas Association of Teachers of Mathematics, KATM	2021-Current
Association of Teacher Educators- Kansas, ATE-K	2021-Current
Association of Teacher Educators, ATE	2020-Current
Association of Mathematics Teacher Educators, AMTE	2019 – Current
National Association for School-University Partnerships, NASUP formerly NAPDS	2018- Current
School Science and Mathematics Association, SSMA	2018 – Current
National Council of Teachers of Mathematics, NCTM	2017 – Current
Association of Mathematics Teacher Educators Texas, AMTE-TX	2017 - 2021
Central Texas Council of Teachers of Mathematics, CTCTM	2017 - 2021
Kappa Delta Pi International Honor Society, KDP	2018 - 2021
Research Council of Mathematics Learning, RCML	2017 - 2020

HONORS

- Association of Mathematics Teacher Educators' Service, Teaching, & Research (STaR) Program in Mathematics Education: Supporting Early Career Professionals, Park City, Utah, Summer 2022.
- Designing for Online Teaching Success Higher Education Online Teaching Program, Baylor University, Texas, 2020.