

CURRICULUM VITAE  
NICOLE A. BANNISTER, PH.D.

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**Academic Identification**

**Name**

Nicole A. Bannister

**Position**

Assistant Professor of Teaching & Learning and Mathematical Sciences August 2012—Present  
Jointly Appointed in the Colleges of Education (51%) and Science (49%)  
Clemson University, Clemson, SC

**Academic Degrees**

Doctor of Philosophy in Learning Sciences December 2009

University of Washington, Seattle, WA

Dissertation: *Reframing practice: High school mathematics teachers' learning through interactions in teacher groups*

Committee: Dr. Ilana Horn (Chair), Dr. John Bransford, Dr. Elham Kazemi, Dr. James King

Master of Science in Mathematical Sciences

May 2001

Clemson University, Clemson, SC

Bachelor of Science in Mathematics

May 1999

College of Charleston, Charleston, SC

Minor: Secondary Mathematics Education

*Honors Program Graduate*

**Academic Background**

Visiting Assistant Professor and Lecturer

2009—2012

Education Outreach Coordinator

Department of Mathematical Sciences

Clemson University, Clemson, SC

National Board Teaching Certification

2008—2018

Adolescence and Young Adulthood Mathematics (AYA/Math)

National Board for Professional Teaching Standards

Mathematics Teacher and Instructional Coach

2006—2008

Cleveland High School

Seattle Public Schools, Seattle, WA

State of Washington Teaching License

2006—2016

Certification: Mathematics (6-12)

Graduate Research Assistant

2004—2009

College of Education

University of Washington, Seattle, WA

Mathematics Teacher

2001—2004

Grayson High School

Gwinnett County Public Schools, Loganville, GA

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State of Georgia Teaching License 2000—2010  
Certifications: Mathematics (6-12), Gifted-In Field  
Advanced Placement Calculus Teaching Endorsement

Graduate Teaching Assistant 1999—2001  
Department of Mathematical Sciences  
Clemson University, Clemson, SC

State of South Carolina Teaching License 1999—2004  
Certification: Mathematics (6-12)

### Research

#### **Publications**

##### *Peer Reviewed Articles*

**Bannister, N.** & Sinwell, B. (in press). Questioning similarity by connecting hexagon constructions. Manuscript accepted for publication in *Mathematics Teacher*.

**Bannister, N.** (2018). Theorizing collaborative mathematics teacher learning in communities of practice. *Journal for Research in Mathematics Education*, 49(2). 125-139. DOI: 10.5951/jresematheduc.49.2.0125

**Bannister, N.**, Kalinec-Craig, C., Bowen, D., & Crespo, S. (2018). Learning to notice and name students' mathematical strengths: A digital experience. *Journal for Technology and Teacher Education*, 26(1). 13-31.

Leonard, A. E. & **Bannister, N.** (2018). Dancing our way to geometric transformations. *Mathematics Teaching in the Middle School*, 23(5). 258-267. DOI: 10.5951/mathteachmidscho.23.5.0258

Simpson, A., **Bannister, N.**, & Matthews, G. (2017). Cracking her codes: Understanding shared technology resources as positioning artifacts for power and status in CSCL Environments. *International Journal of Computer-Supported Collaborative Learning*, 12(3). 221-249. DOI 10.1007/s11412-017-9261-y

**Bannister, N.** (2016). Breaking the spell of differentiated instruction through equity pedagogy and teacher community. *Cultural Studies in Science Education*, 11(2). 335-347. DOI: 10.1007/s11422-016-9766-0

**Bannister, N.** (2015). Reframing practice: Teacher learning through interactions in a collaborative group. *Journal of the Learning Sciences*, 24(3), 347-372. DOI: 10.1080/10508406.2014.999196

**Bannister, N.** & Linder, S. (2015). Teaching for learning: Recasting a traditionally summative assessment as an intentionally formative experience. *The Educational Forum*, 79(2). 190-199. DOI: 10.1080/00131725.2014.1002594

**Bannister, N.** (2011). A sweet way to investigate volume. *Mathematics Teacher*, 105(5), 400.  
DOI: 10.5951/mathteacher.105.5.0400

#### *Book Chapters*

**Bannister, N.** & Arbaugh, F. (2018). In the spotlight: Supporting focus teachers in video-based collaborative learning settings. In N. Llevot & O. Cavero (Eds.), *Advanced learning and teaching environments: Innovation, contents and methods* (pp. 73-84). IntechOpen. DOI: 10.5772/intechopen.74030

#### **Presentations**

##### *Refereed International and National Conference Proceedings*

**Bannister, N.**, Kalinec-Craig, C., Crespo, S. Bowen, D., & Jacques, L. (2018). Learning to notice and name strengths with LessonSketch. To appear in the *Proceedings of the 40th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Greenville, SC: Clemson University & The University of South Carolina.

**Bannister, N.**, Arbaugh, F., & Simpson, A. (2016). Pressing methodological boundaries: Analyzing PCK using frame alignment processes. In M. B. Wood, E. E. Turner, M. Civil, & J. A. Eli (Eds.), *Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1620-1623). Tucson, AZ: The University of Arizona.

**Bannister, N.** (2011). Reframing failure: An analysis of high school mathematics teachers' learning. In Wiest, L. R., & Lamberg, T. (Eds.), *Proceedings of the 33<sup>rd</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 399-407), Reno, NV: University of Nevada, Reno.

**Bannister, N.** (2011). Constructing equitable teaching practices: An analysis of mathematics teachers' conversations. In Wiest, L. R., & Lamberg, T. (Eds.), *Proceedings of the 33<sup>rd</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1946-1947), University of Nevada, Reno.

**Bannister, N.** (2009). Reframing failure: High school mathematics teachers' learning about struggling students through participation in workplace communities. In S. L. Swars, D. W. Stinson, & S. Lemons-Smith (Eds.), *Proceedings of the 31<sup>st</sup> Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 5, pp. 1033-1041), Atlanta, GA: Georgia State University, GA.

##### *Refereed International and National Conference Presentations*

**Bannister, N.**, Kalinec-Craig, C., Bowen, D., & Crespo, S. (2019, February—accepted). *Supporting PTs learning to draw on students' mathematical strengths*. 23<sup>rd</sup> Annual Conference of the Association of Mathematics Teacher Educators. Orlando, FL.

Leonard, A. E. & **Bannister, N.**, (2018, October). *Flip, turn, & slide: Case study of teaching dance-based inquiry of geometrical transformations*. National Dance Education Organization Annual Conference, San Diego, CA.

- Bannister, N.,** Leonard, A. E., McClenahan, J., & Jones, S. (2018, April). *Relearning the dance of geometric transformations*. National Council of Teachers of Mathematics Research Conference, Washington, D.C.
- Bannister, N.,** Arbaugh, F., & Simpson, A. (2017, April). *The role of reification in analyzing teacher learning*. National Council of Teachers of Mathematics Research Conference, San Antonio, TX.
- Bannister, N.,** Arbaugh, F., & Simpson, A. (2016, April). *Analyzing mathematics teacher learning using frame alignment processes*. National Council of Teachers of Mathematics Research Conference, San Francisco, CA.
- Matthews, G., **Bannister, N.,** & Simpson, A. (2016, April). *Cracking her codes: Investigating technology boundary objects using interaction analysis*. National Council of Teachers of Mathematics Research Conference, San Francisco, CA.
- Crespo, S., **Bannister, N.,** & Kalinec-Craig, C. (2016, April). Learning to notice students' mathematical competence. In W. R. Aaron (Chair), *Research on math teacher education in an online multimedia environment*. Symposium conducted at the National Council of Teachers of Mathematics Research Conference, San Francisco, CA.
- Bannister, N.** (2015, April). *An empirical example of teacher learning inside teacher community*. American Education Research Association Annual Meeting, Chicago, IL.
- Bannister, N.** (2014, June). *Capturing teachers' learning through their framing of a struggling student problem*. 11<sup>th</sup> International Conference of the Learning Sciences, Denver, CO.
- Horn, I. S., **Bannister, N.,** Fetter, A., Hedgepeth, S., Black, A., Lanier, J., & Vilson, J. (2014, April). *Colleagues 2.0: The MathTwitterBlogoSphere and mathematics teachers' professional learning*. National Council of Teachers of Mathematics Research Conference, New Orleans, LA.
- Bannister, N.** (2014, April). *A brief introduction to high-press questioning*. National Council of Teachers of Mathematics Annual Meeting, New Orleans, LA.
- Luedeman, J., **Bannister, N.,** & Williams, C. L. (2014, January). *Improving middle grades teacher quality through the Clemson Mathematics Institute and Video Club*. Hawaii International Conference on Education, Honolulu, HI.
- Bannister, N.** (2014, January). *Capturing high school mathematics teachers' learning through their framing of struggling student problem*. Hawaii International Conference on Education, Honolulu, HI.
- Bannister, N.** (2013, June). *Moving towards agency: An analysis of mathematics teachers' conversations*. Science and Mathematics Teacher Imperative Annual Conference, St. Louis, MO.

**Bannister, N.** (2012, April). *Constructing equitable teaching practices: An analysis of mathematics teachers' conversations*. American Education Research Association Annual Meeting, Vancouver, British Columbia, Canada.

**Bannister, N. & Horn, I. S.** (2010, April). *Constructing student competence beyond the classroom: An analysis of mathematics teachers' collaborative conversations*. National Council of Teachers of Mathematics Research Conference, San Diego, CA.

King, J. & **Bannister, N.** (2010, April). *Using video clubs as a vehicle to link instruction and student learning*. National Council of Supervisors of Mathematics Annual Meeting, San Diego, CA.

**Bannister, N. & Horn, I. S.** (2009, April). *Re-framing failure: High school mathematics teachers' learning about struggling students*. 13<sup>th</sup> Biennial Conference of the European Association for Research on Learning and Instruction, Amsterdam, The Netherlands.

Burrill, G., King, J. & **Bannister, N.** (2009, January). *Making teaching public in a math centered learning environment: What did we learn?* Math and Science Partnership Learning Network Conference, Washington, DC.

**Bannister, N., Burrill, G., White, A., Kanim, K., & King, J.** (2008, January). *PD<sup>3</sup>: Opening classroom doors as a vehicle for change*. Math and Science Partnership Learning Network Conference, Washington, DC.

**Bannister, N.** (2005, April). *Exploring one teacher's experiences implementing reform-based mathematics*. National Council of Teachers of Mathematics Research Conference, St. Louis, MO.

#### *Invited Presentations*

**Bannister, N.** (2017, September). *A frame analysis approach for analyzing teacher learning in communities of practice*. University of Illinois-Chicago Learning Sciences Research Institute Speaker Series. Chicago, IL. <https://lsri.uic.edu/event/dr-nicole-bannister-phd-assistant-professor-college-education-clemson-university>

**Bannister, N.** (2015, July). *Geometry, isometry, & Escher: Fostering productive academic talk in your classes*. Tri-County Technical College, Pendleton, SC.

**Bannister, N.** (2015, March). *Using collaborative methods in university math courses*. Clemson University Association for Women in Mathematics Speaker Series. Clemson, SC.

**Bannister, N.** (2007, July). *Using video as a tool to examine students' understanding of mathematics*. Park City Mathematics Institute, Park City, UT.

#### *Regional and State Conference Presentations*

**Bannister, N. & Seawright, J.** (2015, November). *Standing tall: Facilitating meaningful classroom discourse in 6th grade*. National Council of Teachers of Mathematics Regional Conference, Nashville, TN.

- Bannister, N.** (2015, November). *Smarter together: Developing habits of mind for teaching middle level and secondary geometry*. South Carolina Council of Teachers of Mathematics Annual Meeting, Greenville, SC.
- Bannister, N.** (2015, November). *Strength in numbers: Learning to teach middle and secondary mathematics together*. South Carolina Council of Teachers of Mathematics Annual Meeting, Greenville, SC.
- Bannister, N. & Breazel, E.** (2015, November). *Inquiring minds: Student enrichment through a peer teaching experience*. South Carolina Council of Teachers of Mathematics Annual Meeting, Greenville, SC.
- Bannister, N. & Seawright, J.** (2013, October). *The power of pattern blocks...for students and their teachers!* South Carolina Council of Teachers of Mathematics Annual Meeting, Greenville, SC.
- Bannister, N.** (2013, March). *Let's talk! Generating productive academic talk in your mathematics classroom*. Noyce Foundation Southeastern Conference, Greenville, SC.
- Bannister, N.** (2012, February). *Connected representations and the amazing technicolor dreamcoat*. Noyce Foundation Southeastern Conference, Greenville, SC.
- Bannister, N., Trakas, E. & Goss, C.** (2011, October). *Origami geometry: Connecting straightedge and compass constructions to origami*. South Carolina Council of Teachers of Mathematics Annual Meeting, Charleston, SC.
- Bannister, N., Jackson, J. & Trakas, E.** (2011, October). *Complex instruction: Designing groupwork for middle school and secondary classrooms*. South Carolina Council of Teachers of Mathematics Annual Meeting, Charleston, SC.
- Bannister, N.** (2011, March). *Complex instruction: Designing groupwork for secondary mathematics instruction*. Noyce Foundation Southeastern Conference, Greenville, SC.
- Bannister, N.** (2007, October). *Group-worthy Tasks*. Northwest Mathematics Conference, Bellevue, WA.
- Bannister, N.** (2006, June). *Moving forward: Teachers' learning of ambitious teaching practices in the context of video club*. University of Washington College of Education Qualitative Methods Conference, Seattle, WA.
- Other Presentations*
- Bannister, N.** (2017). *Connecting rural teacher education with the mission of the College of Education*. Clemson University Teaching and Learning Department Faculty Short Presentation Series. Clemson, SC.
- Bannister, N.** (2015). Heterogeneous groupwork. In D. Kombe (Instructor), *Teaching Secondary Mathematics* (EDSC 4260). Clemson University, Clemson, SC.

- Bannister, N.** (2013, January). *Complex instruction*. Clemson University Middle Level MAT Program Faculty presentation. Clemson, SC.
- Bannister, N.** (2009). Research informed practice. In T. Lee (Instructor), *Service Learning and Research Seminar* (ECFS 305), University of Washington, Seattle, WA.
- Bannister, N.** (2006). Groupwork in the secondary mathematics classroom. In R. Killingsworth (Instructor), *Teaching secondary mathematics* (EDMA 3357), Seattle Pacific University, Seattle, WA.
- Bannister, N.** (2005). What kinds of activities help students make sense of mathematics? In S. Campbell (Instructor), *Teaching mathematics in the secondary school* (EDTEP 582), University of Washington, Seattle, WA.
- Bannister, N.** (2004). Technology in the secondary mathematics classroom. In I. S. Horn (Instructor), *Teaching Mathematics in the Secondary School* (EDTEP 582), University of Washington, Seattle, WA.

### **Sponsored Research Funding**

#### *External Sponsored Research*

- Bannister, N.** (PI), Wilder, P., & Williams, C. L. (2017-2018). *Exploring the mathematics of genetics*. United States Department of Education, South Carolina Commission on Higher Education Improving Teacher Quality Higher Education Grant program. \$172,258.
- Bannister, N.** (PI), Wilder, P., & Williams, C. L. (2016-2017). *Understanding geometry by design*. United States Department of Education, South Carolina Commission on Higher Education Improving Teacher Quality Higher Education Grant program. \$142,000.
- Bannister, N.** (PI) & Wilder, P. (2015). *Inquiring minds: Motivating early adolescent learning in mathematics and science*. Greenwood County Community Foundation Grant program. \$4,200.
- Matthews, G. & **Bannister, N.** (co-PI) (2014). *We do math—A summer mathematics experience for high school girls*. American Mathematical Society Epsilon Grant. \$5,000.
- Matthews, G. & **Bannister, N.** (co-PI) (2014-2015). *We do math—A summer camp for high school girls*. Mathematical Association of America Tensor Women and Mathematics program. \$6,000.
- Williams, C. L., Deaton, C., **Bannister, N.** (co-PI), & Hardwick, R. (2014). *The Clemson Integrated Mathematics and Science Institute*. United States Department of Education, South Carolina Commission on Higher Education Improving Teacher Quality Higher Education Grant program. \$103,719.
- Williams, C. L. & **Bannister, N.** (co-PI) (2012-2014). *Improving middle grades teacher quality through the Clemson Mathematics Institute and video club*. United States Department of Education, South Carolina Commission on Higher Education Improving Teacher Quality Higher Education Grant program. \$213,750.

Che, S. M., Williams, C. L., & **Bannister, N.** (co-PI) (2012). *iPad technology in middle grades mathematics: Meeting the need for highly qualified mathematics teachers*. United States Department of Education, South Carolina Commission on Higher Education Improving Teacher Quality Higher Education Grant program. \$63,412.

*Other Sponsored Research*

**Bannister, N.** (PI) & Arbaugh, F. (2015). *Analyzing mathematics teacher learning*. Clemson University URGC Project Completion Grant program (Internal). \$3,000.

Calkin, N., **Bannister, N.** (co-PI), Corbin, V., Breazel, E., & Quigley, C. (2011-2015). *Inquiring minds: Engaging students with hands-on science and math activities*. Clemson Creative Inquiry program (Internal). \$5,700.

**Bannister, N.** (PI). (2009). *Learning in an MSP Community*. University of Washington College of Education Graduate Student Travel Grant program (Internal). \$500.

**Honors and Awards**

Top 3 Faculty Recognition to the Clemson University Board of Trustees 2016  
College of Education, Clemson University

Service, Teaching, and Research (STaR) Fellow 2014  
Association of Mathematics Teacher Educators

Excellence in Teaching Award 2012-2013  
Eugene T. Moore School of Education, Clemson University

Teaching & Teacher Education Outstanding Dissertation Award Finalist 2010  
Division K, American Educational Research Association

Excellence in Teaching Award Nominee 2010  
Clemson Undergraduate Student Government and Fluor Daniel Corporation

Spencer Dissertation Fellowship Finalist 2010  
National Academy of Education

Doi Doctoral Student Research Award 2008  
College of Education, University of Washington

Microsoft Innovative Teacher Award 2007  
Microsoft Partners in Learning

Recognition of Excellence Award for Outstanding Performance on the 2006  
Praxis II (Mathematics: Content Knowledge), Educational Testing Service

Esther-Livesey Scholarship Award for Teachers 2004  
University of Washington, College of Education



Atlanta Toyota Most Inspiring Teacher Award <i>Nominated by High School Student Joshua Golden</i>	2004
Student/Teacher Achievement Recognition (STAR) Teacher Grayson High School, Gwinnett County Public Schools <i>Nominated by High School Student David Rutter</i>	2004
Grayson High School Teacher Letter Faculty Award <i>Nominated by Grayson High School Teaching Faculty</i>	2004
Outstanding Creativity in the Classroom Award Grayson High School, Gwinnett County Public Schools	2003
The Center for Discrete Mathematics and Theoretical Computer Science (DIMACS) Connect Institute Fellow, Rutgers University	2003
Georgia Intern Fellowship for Teachers (GIFT) Fellow Center for Education Integrating Science, Mathematics, and Computing (CEISMC), Georgia Institute of Technology Internship: Water-Chemistry Lab, Georgia Power	2003
Graduate Teaching Assistant of the Year Mathematical Sciences Department, Clemson University	2001
Jeremy Warren Vann Memorial Scholarship, Inaugural Recipient Teacher Education Department, College of Charleston	1999

### Teaching and Advising

#### **Teaching (Fall 2012 to Present)**

*College of Education, Clemson University*

ED 3970/HONS 499	Creative Inquiry: Inquiring Minds: Engaging Students with Hands-On Science and Math Activities
EDEL 4520/4521	Elementary Methods in Mathematics Teaching and Lab
EDML 8030	The Early Adolescent Learner
EDML 8130/8131	Middle Grades Mathematics Methods I and Practicum
EDML 8230/8231	Middle Grades Mathematics Methods II and Student Teaching
EDML 8080	Middle School Assessment for Teachers
EDML 8410	Advanced Middle School Curriculum
EDSC 8420	Advanced Studies in the Teaching of Secondary School Mathematics
EDSC 8620/8621	Teaching Methods and Strategies for Secondary Mathematics and Lab
ED 8380	Geometry Teaching and Learning in Secondary Education
ED 9010	Classics in Mathematics Education Research
ED 9020	Independent Doctoral Study
ED 9470	Current Scholarship in Mathematics Education
ED 9910	Doctoral Dissertation Research
ED 9940	Directed Research
ED F 8080	Educational Tests and Measures

ED F 9020	Seminar in the Learning Sciences II
<i>Department of Mathematical Sciences, Clemson University</i>	
MATH 1070	Differential and Integral Calculus
MATH 1080	Calculus of One Variable II
MATH 1160	Contemporary Mathematics for Elementary Teachers II
MATH 3080	College Geometry
MATH 4080	Exploration and Analysis of Secondary Mathematics
MATH 4910	Independent Study
MATH 7060	Probability and Statistics for Middle Grades Teachers
MATH 7090	Geometry for Middle Grades Teachers
MATH 7130	Algebra for Middle Grades Teachers
MATH 7140	Foundations of Mathematics for Middle Grades Teachers
MATH 7190	Special Topics: Equity & Groupwork in Middle Grades Mathematics
MATH 7490	Discrete Mathematics for Secondary Teachers
MATH 7770	AP Calculus Institute
MATH 7380	Modern Geometry for Secondary Teachers
MATH 9700	Directed Studies in Mathematical Sciences

### **New Courses Developed (through Curriculum Committee)**

MATH 3130	Algebra for Middle Level Teachers
MATH 3140	Foundations of Mathematics for Middle Level Teachers

### **Academic Advising**

#### *Doctoral Committees*

#### Committee Chair—Completed

Leigh Martin, Ph.D., Curriculum and Instruction—Mathematics Education, 2016.  
 Department of Teaching and Learning, College of Education, Clemson University  
 “The Intentionality of Coaching Responses: Connecting Stances to Practices”

#### Committee Chair—In Progress

Ko’shon Martin, Curriculum and Instruction—Mathematics Education.

#### Committee Member—Completed

Lorraine Jacques, Ph.D., Learning Sciences, 2017.  
 “Using *App Inventor* to Explore Low-achieving Students’ Understanding of Fractions”

Amber Simpson, Ph.D., Curriculum and Instruction—Mathematics Education, 2015.  
 “Kaleidoscopic View of Voices Shaping Female and Male Adolescents’ Dynamic  
 Mathematics Identity within Single-Sex and Coeducational Environments”

#### Committee Member—In Progress

DeOnte Brown, Learning Sciences  
 Diana Carver, Educational Leadership  
 Karen Franklin, Learning Sciences

#### *Master of Education Committees*

#### Committee Chair—Completed

Lisa Hall, M.Ed., Teaching and Learning, 2016.

Committee Member—Completed

Megan Shipman, M.Ed., Teaching and Learning, 2013.

Larry Fetterly, M.Ed., Teaching and Learning, 2012.

*Master of Arts in Teaching Committees*

Committee Chair—Completed

29 Middle Level Mathematics students, 2012-2018.

Committee Member—Completed

59 Middle Level Science, Social Studies, & English/Language Arts students, 2012-2018.

7 Secondary Mathematics students, 2012-2018.

**Service**

**Service to the Field**

*Leadership*

Advisory Board Chair, NSF-Funded Collaborative Research Project: Mathematics Immersion for Secondary Teachers (MIST) At Scale (A. Cuoco, PI), 2017-2019.

Invited Panel Member, MKT Item Refresh Project at Harvard University, 2018.

2019 NCTM Annual Meeting Program Committee (Appointed), 2017-2019.

2018 PME-NA Local Organizing Committee (Appointed), 2017-2018.

NCTM Committee Review of AMTE Math Teacher Preparation Standards (Appointed), 2016.

AP Reader, Advanced Placement Calculus AB and BC, The College Board, 2010-2012.

*Guest Reviewer (Journals)*

American Education Research Journal

Cognition and Instruction

Educational Researcher

Journal of Curriculum Studies

Journal of the Learning Sciences

Journal for Research in Mathematics Education

Journal of Teacher Education

Mathematics Teacher Educator

Mathematics Teaching in the Middle School

The MathMate

Teachers College Record

Teaching and Teacher Education

Thinking Skills and Creativity

*Guest Reviewer (Conference Proposals)*

American Educational Research Association Annual Meeting

National Council of Teachers of Mathematics Research Conference

National Council of Teachers of Mathematics Annual Meeting

Psychology of Mathematics Education – North America Chapter Annual Meeting

*Professional Affiliations*

American Educational Research Association (AERA)

Association of Mathematics Teacher Educators (AMTE)

International Society of the Learning Sciences (ISLS)

National Council of Teachers of Mathematics (NCTM)  
Psychology of Mathematics Education, North American Chapter (PME-NA)  
South Carolina Council of Teachers of Mathematics (SCCTM)  
TODOS: Mathematics for ALL (TODOS)

### **Service to Clemson Colleagues**

#### *University, College, and Department Service*

Chair, Department of Teaching and Learning Advisory Committee, 2018-2021.  
Curriculum & Instruction Doctoral Advisory Committee, 2018-2021.  
Member, Teaching and Learning Department Chair Search Committee, 2018-2019.  
Member, CU SEED Grants Committee, 2018.  
Member, Alumni Award (AAOAR) Committee, 2018.  
Learning Sciences Doctoral Advisory Committee, 2017-Present.  
Member, Department Teaching and Learning Curriculum Committee, 2015-2019.  
Member, University Research Grants Committee, 2015-2018.  
Member, Graduate Admissions and Continuing Enrollment Appeals Committee, 2014-2017.  
Member, University Graduate Council, 2014-2017.  
Member, Elementary Mathematics Education Faculty Search Committee, 2016-2017.  
Member, Secondary Mathematics Education Faculty Search Committee, 2015-2016.  
Member, Ad Hoc Departmental Name and Vision Subcommittee, 2014-2015.  
Member, Ad Hoc Committee for Distinguished Scholar Visitation, 2013-2015.  
Member, Ad Hoc Committee on Clinical Supervision, 2013-2014.  
Founder and Facilitator, Teacher Induction Support Group, 2013.  
Middle Level Program Area Committee, 2012-2018  
Clemson Calculus Challenge Exam Committee and Volunteer, 2011-2012.  
Chair, Ad Hoc Committee for Revisions to Secondary Education Math Sequence, 2011.  
Chair, Ad Hoc Committee for Revisions to Elem. Education Math Sequence, 2009-2010.

### **Service to Practitioners and the Public**

#### *Invited Workshop Presentations*

- Bannister, N.** (2016, July). *Multiple representation mash-up problem for intermediate algebra.* National Council of Teachers of Mathematics High School Institute, Atlanta, GA.
- Bannister, N.** (2016, July). *Let's talk about intermediate algebra.* National Council of Teachers of Mathematics High School Institute, Atlanta, GA.
- Bannister, N.** (2015, July). *Using connected representations to promote reasoning and problem solving.* National Council of Teachers of Mathematics High School Institute, Anaheim, CA.
- Bannister, N.** (2015, July). *Fostering meaningful mathematical discourse in your intermediate algebra classroom.* National Council of Teachers of Mathematics High School Institute, Anaheim, CA.
- Bannister, N.** (2014, July). *Developing perseverance and problem solving skills in an intermediate algebra context.* National Council of Teachers of Mathematics Interactive Institute—Grades 9-12, Chicago, IL.

- Bannister, N.** (2014, July). *Developing mathematical precision and argumentation skills in an intermediate algebra context*. National Council of Teachers of Mathematics Interactive Institute—Grades 9-12, Chicago, IL.
- Bannister, N.** (2007, August). *Groupwork in the Mathematics Classroom*. Short Course. Northwest Mathematics Interaction Math Short Course, Seattle, WA.
- Bannister, N.** (2006, November). *Effective use of groupwork*. Northwest Mathematics Interaction Teacher Workshop, Seattle, WA.
- Professional Development Leadership and Design*
- Bannister, N., Wilder, P., & Williams, C. L.** (2018, July). *The Clemson Mathematics Institute: Exploring the mathematics of genetics II*. Summer teacher institute, Greenville, SC.
- Bannister, N., Wilder, P., & Williams, C. L.** (2017-2018). *Exploring the mathematics of genetics: EMG workgroup*. Monthly professional development, Greenwood, SC.
- Bannister, N., Wilder, P., & Williams, C. L.** (2017, July). *The Clemson Mathematics Institute: Exploring the mathematics of genetics I*. Summer teacher institute, Greenwood, SC.
- Bannister, N., Wilder, P., & Williams, C. L.** (2017, June). *The Clemson Mathematics Institute: Geometry by design*. Summer teacher institute, Greenwood, SC.
- Bannister, N., Wilder, P., & Williams, C. L.** (2016-2017). *Geometry by design: Geometry workgroup*. Monthly professional development, Greenwood, SC.
- Bannister, N., Wilder, P., & Williams, C. L.** (2016, August). *The Clemson Mathematics Institute—Geometric habits of mind*. Summer teacher institute, Greenwood, SC.
- Bannister, N., & Sinwell, B.** (2015, June). *The Clemson Mathematics Institute—Focus on habits of mind*. Summer teacher institute, Abbeville, SC.
- Bannister, N.** (2014-2015). *Classroom discussions in mathematics*. Workshop series for middle school mathematics teachers, Greenwood School District, Greenwood, SC.
- Bannister, N., Williams, C. L. & Sinwell, B.** (2014, June). *The Clemson Mathematics Institute—Focus on statistics and teacher community*. Summer teacher institute, Abbeville, SC.
- Williams, C. L., Deaton, C. M., **Bannister, N.**, Hardwick, R., & Deaton, B. (2014, July). *The Clemson Integrated Mathematics and Science Institute—Focus on soil investigations and data analysis*. Summer teacher institute, Greenville, SC.
- Bannister, N., & Williams, C. L.** (2013-2014). *Secondary lenses on learning: Team leadership for mathematics in middle and high schools*. Monthly professional development, Greenwood School District, Greenwood, SC.
- Bannister, N., Williams, C. L. & Sinwell, B.** (2013, July). *The Clemson Mathematics Institute—Focus on geometry and groupwork*. Summer teacher institute, Abbeville, SC.

- Bannister, N., & Williams, C. L.** (2011-2015). *Middle grades mathematics teacher video club*. Monthly professional development, Abbeville, SC.
- Bannister, N., Williams, C. L. & Sinwell, B.** (2012, July). *The Clemson Mathematics Institute—Focus on algebra and classroom discourse*. Middle Grades Mathematics Teacher Summer Institute, Abbeville, SC.
- Bannister, N.** (2008, July). *Reflecting on practice: Connections to research*. Summer Institute for Teachers. Park City Mathematics Institute, Park City, UT.
- Campbell, S., & **Bannister, N.** (2008, July). *Through an algebraic lens*. Teacher Workshop. Teacher Leaders of Math Academy, Bethel School District, Bethel, WA.
- Horn, I. S., & **Bannister, N.** (2004-2008, academic year). *Seattle PD<sup>3</sup> video club*. Monthly Teacher Meetings, University of Washington, Seattle, WA.
- Bannister, N.** (Summer 2005-2008). *Working group: Learning from teaching cases*. Summer Institute for Teachers. Park City Mathematics Institute, Park City, UT.
- Bannister, N.** (2007-2008). *Secondary lenses on learning: Team leadership for mathematics in middle and high schools*. Professional Development for Teachers. Lakewood School District, Marysville, WA.
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