

Kelly J. Barber-Lester, PhD

Learning Sciences and Psychological Studies
School of Education, The University of North Carolina at Chapel Hill

Curriculum Vitae

Contact Information:

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Education

PhD in Education – Learning Sciences and Psychological Studies
School of Education, University of North Carolina at Chapel Hill
Chapel Hill, NC – 2014-2019

Focus on Culturally Relevant Pedagogy, Critical Consciousness, and Education for Equity
Advisor – Dr. Eileen R. Carlton Parsons
Dissertation Title: Choosing to Learn: Exploring White Teachers' Paths of Critical Consciousness

B.A., University of North Carolina at Chapel Hill– 2002-2006

B.A. Communication Studies- Minor - Spanish
Graduated with Highest Honors and Distinction

Professional Experience

University of North Carolina at Chapel Hill School of Education, 2018-2019

Field Supervisor for the Masters of Arts in Teaching Program, Elementary and English as a Second Language Certifications

University of North Carolina at Chapel Hill School of Education- 2016- 2018

Graduate Research Assistant for DRK-12 Grant

University of North Carolina at Chapel Hill School of Education- 2014-2016

Thomas James Endowed Professor Graduate Research Assistant

Salient Learning 21st Century Community Learning Center- 2013-2014

Program Developer and Director

Y.E. Smith Elementary – 2013

4th Grade Math Teacher

Parents as Teachers of Granville County- 2010

Bilingual Parent Educator

St. Cyprian's Education Advocacy Program- 2009-2010

Developer and Director

Salient Learning- 2009

Curriculum Developer

Creedmoor Elementary School- 2008-2009

5th Grade Teacher

Teach For America- Fair Haven K-8- 2006-2008

3rd Grade Bilingual Teacher

Bibliography and Products of Scholarship

Refereed Conference Proceedings and Articles

Minshew, L. M., **Barber-Lester, K. J.**, Derry, S. J., & Anderson, J. L. (2017) Leveraging students' prior knowledge to adapt science curricula to local context. *Journal of Educational Technology and Society*.

Anderson, J. L., Bartlett, K., Minshew, L. M., Dragnic-Cindric, D. & **Barber-Lester, K.** (2017). Designing digital materials to support teacher enactment of a project based middle-school biology curriculum. In P. Resta & S. Smith (Eds.), *Proceedings of the Society for Information Technology & Teacher Education International Conference*. Austin, TX. March 2017.

Barber-Lester, K., Derry, S., Minshew, L., & Anderson, J. (2016). Exploring Visualization and Tagging to Manage Big Datasets for DBR: A Modest Proposal with Significant Implications. Proceedings of the *International Conference of the Learning Sciences*. Singapore. June 2016.

Minshew, L., Derry, S., **Barber-Lester, K.**, & Anderson, J. (2016). Designing for Effective Collaborative Learning in High-Needs Rural Schools. Proceedings of the *International Conference of the Learning Sciences*. Singapore. June 2016.

Book Chapters

Derry, S. J., Minshew, L., **Barber-Lester, K.** & Duke, B. (2018). Video research methods for learning scientists: State of the Art and Future Directions. In F. Fischer, C. Hmelo-Silver, S. R. Goldman & P. Reimann (Eds) *International handbook of the learning sciences*. Routledge/Taylor & Francis. (Refereed)

Editorials

Barber-Lester, K. & Edwards, T.K. From the editorial board: Freedom of expression in schools. *The High School Journal*, 102(1).

Products of Engaged Scholarship & Curriculum Development

Minshew, L. M., **Barber-Lester, K.**, Anderson, J.L. & Derry, S. (2016). Composting Curriculum – North Carolina Version

Anderson, J.L., Minshew, L. M., **Barber-Lester, K.**, Bartlett, K., & Derry, S. (2016). Composting Curriculum Interactive Teacher Materials, Modules 1, 2, & 3.

Anderson, J.L., Minshew, L. M., **Barber-Lester, K.** & Derry, S. (2015). *Biosphere Institute: Composting iBook*. 63 pages.

Refereed Conference Presentations

International Conferences

Barber-Lester, K. J. (2018) Cultivating Culturally Relevant Pedagogy: Exploring Teachers' Pedagogical Gardens. Presented at the meeting of the *American Educational Research Association*, New York, NY. April 2018

Barber-Lester, K. J., Minshew, L. M., Derry, S., Anderson, J. L. (2018). Exploring student conceptual understanding using a model-based assessment. Paper presented at the meeting of the *National Association of Researcher and Science Teaching*, Atlanta, GA. March 2018.

Minshew, L. M., **Barber-Lester, K. J.**, Derry, S. J., Anderson, J. L., (2018). Uncovering Students' Ecological Resources. Presented at the International Conference of the Learning Sciences. London, UK. June 2018.

Minshew, L. M., **Barber-Lester, K. J.**, Derry, S., & Anderson, J. L. (2018) Knowledge in pieces: Implications for design. Paper presented at the meeting of the *American Educational Research Association*, New York, NY. April 2018.

Bartlett, K., Corbat, J., Anderson, J. L., Derry, S. J., Minshew, L. M., & **Barber-Lester, K. J.** (2018). Facilitating Student Scientific Discussions: Exploring the Enactment of Collaboration in a Middle Grades Science Classroom. Paper to be presented at the meeting of the *National Association for Research in Science Teaching*. Atlanta, GA. March 2018.

Minshew, L. M., **Barber-Lester, K. J.**, Derry, S., Anderson, J. L. (2017). *Leveraging students' prior knowledge to adapt science curricula to local context*. Paper presented at the meeting of the *National Association of Research and Science Teaching*, San Antonio, TX. April 2017.

Anderson, J. L., Minshew, L., **Barber-Lester, K. J.**, Derry, S. (2017). *Intended design versus teacher enactment of a DBR project-based middle school biology curriculum*. Paper presented at the meeting of the *National Association of Research and Science Teaching*, San Antonio, TX. April 2017.

Derry, S., Leonard, M. J., Anderson, J. L., **Barber-Lester, K. J.**, & Minshew, L. M. (2017). *Fostering deep learning in middle school design-based science: Findings, challenges, and recommendations from two studies*. Structured poster session presented at the annual meeting of the *American Educational Research Association*, San Antonio, TX. April 2017.

Anderson, J. L., Minshew, L. M., **Barber-Lester, K. J.**, & Derry, S. (2017). Designed intentions and teacher enactment: Examining the implementation of a project-based science curriculum in a rural context. Poster presented at the annual meeting of the *American Educational Research Association*, San Antonio, TX. April 2017.

Anderson, J. L., Bartlett, K., Minshew, L. M., Dragnic-Cindric, D. & **Barber-Lester, K.** (2017). Designing digital materials to support teacher enactment of a project based middle-school biology curriculum. Proceedings of the *Society for Information Technology & Teacher Education International Conference*. Austin, TX. March 2017.

Minshew, L., Anderson, J., **Barber-Lester, K.**, & Derry, S. (2016). Designing for Effective Collaborative Learning in High-Needs Rural Schools. Presentation at the *International Conference of the Learning Sciences*. Singapore. June 2016.

Barber-Lester, K., Derry, S., Minshew, L., & Anderson, J. (2016). Exploring Visualization and Tagging to manage Big Datasets for DBR: A Modest Proposal with Significant Implications. Presentation at the *International Conference of the Learning Sciences*. Singapore. June 2016.

Barber-Lester, K., Derry, S., Minshew, L., & Anderson, J. (2016). Orchestrating Collaborative Meaning-Making in Complex Science Classrooms: A Study of Macro-Script Design. Presentation at the Annual *American Education Research Association*. Washington, DC. April 2016.

Local Conferences

Minshew, L., **Barber-Lester, K.**, & Duke, R. (2016) Macro- & Micro-scripting for Technology Enhanced Learning Environments. Presentation at the Annual UNC School of Education Graduate Student Association Symposium. Chapel Hill, NC. March, 2016.

Invited Talks & Presentations

UNC-CH- Design Based Research Course (Spring 2019)

Presentation entitled “Data Management in Design Based Research”

UNC-CH- Introduction to Learning Sciences Course (Fall 2017)

Talk entitled “Culturally Relevant Pedagogy and the Learning Sciences”

Workshops and Professional Development

Biosphere Compost Curriculum and Inquiry Pedagogy Professional Development—October 2017
Developed and presented professional development for middle grades science teachers centering on inquiry-based science teaching and the Biosphere Compost Unit

Teaching Activities – University

EDUC 685: Elementary Math Methods

Instructor of Record Fall 2019

EDUC 628: Teaching English Language Learners

Instructor of Record Fall 2019

EDUC 783: Advanced ESL Methods and Strategies for STEM

Instructor of Record Summer 2019

EDUC 522 – Schools, Cultures and Communities II: Schools

Teaching Assistant Spring 2016

EDUC 390: Human Abilities and Learning (Hybrid Face-to-Face and Online)

Teaching Assistant Spring 2015

Teaching Activities K-12

Y.E. Smith Elementary – 2013

4th Grade Math Teacher

Creedmoor Elementary School- 2008-2009

5th Grade Teacher

Teach For America- Fair Haven K-8- 2006-2008

3rd Grade Bilingual Teacher

Educational Research Experience

Bio-Sphere, NSF Grant – Discovery Research K-12 – (Funded 2014)

Graduate Researcher

Biosphere: Fostering deep learning of complex biology for building our next generation's scientists

National Service

Board Member of *The High School Journal*
2016-2019

Local Service

Steering Committee Member for the Durham Nativity School Koortbojian Summer Reading Camp
2017- Present

Board Member for the Safe Schools NC Board of Directors
2019- Present

Professional Associations

International Society of Learning Sciences
2015 – present

American Educational Research Association
2015 – present

National Association of Multicultural Educators
2016- present

National Association of Research in Science Teaching
2017- present

Certifications

North Carolina K-6 Teaching License (Expired June 2014)
Connecticut K-6 Teaching License (Expired January 2017)

Languages

English
Primary

Spanish
Written and Verbal Proficiency