

Christopher J. F. Burke

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Academic Background

- Ph.D. Curriculum and Instruction: University of Illinois Urbana Champaign 2001
Dissertation: Negotiating Boundaries & Spaces: An Examination of the Process & Context at Douglas Elementary School
- M.S. Curriculum and Instruction: University of Illinois Urbana Champaign 1994.
Thesis: 4-H Missions in Space: Changing Student Conceptions Through Experiential Learning
- B.S. News Editorial Journalism University of Illinois Urbana Champaign 1991.

Professional Experience

- Department Chair Education July 2020 – Present
University of Michigan – Dearborn CEHHS
- Professor Science Education July 2021 – Present
University of Michigan – Dearborn CEHHS
- Director Doctoral Program July 2017 - Present
University of Michigan – Dearborn CEHHS
- Associate Professor Science Education Aug. 2008 – July 2021
University of Michigan – Dearborn CEHHS
- Co-Director Doctoral Program July 2011 – July 2017
University of Michigan – Dearborn School of Education
- Assistant Professor Science Education Aug 2001 – Aug 2008
University of Michigan – Dearborn School of Education
- Distance Education Coordinator and Technical Supervisor Dec 1993 – Aug 1994
University of Illinois Cooperative Extension Service
- Production Supervisor - Environmental Regulation Training May 1992 – Dec 1993
U.S. Army Corps of Engineers CERL

Grants

- NSF Innovative Technology Experiences for Students and Teachers 2018-2021
Urban STEM Stewards: Expanding Career Interests through Citizen Science with Community Partners. Submitted through UW Madison in conjunction with Eastern Michigan University, UM – Ann Arbor, UM – Dearborn.
- Office of Metropolitan Impact 2016
iGenVoices research grant with Dr. Truman Hudson Jr.
- President Schlissel's Flint Water Research initiative 2016.

- Empowering Flint Youth through Digital Storytelling: A Case Study* With Emilia Askari, Dr. Kristian Stewart, Dr. Suzanne Selig
Office of Metropolitan Impact 2014
Science in Community grant
- University of Michigan – Dearborn Office of Research and Sponsored Programs 2005
“University of Michigan - Dearborn Westwood Community Schools Culturally Responsive Curriculum Partnership with Dr. Martha Adler, Dr. Maureen Linker

Publications

- Stewart, K. & Burke, C. J. F. (2022) Change Day: How a High School Environmental Justice Class Inspired Student Agency and Prompted Civic Action. *Race Ethnicity and Education*.
- Caldwell, K., Millis, C., Constant, T., Borg, P. Threat-Morgan, L., & Burke, C. J. F. (2021). Student Readiness of Colleges: A Qualitative Study. *Journal of College Access*.
- Stewart, K. & Burke, C. J. F. (2021) Can We Call this Racism?” Flint Students Respond to the Water Crisis. *Journal of Urban Research Teaching and Learning*
- Burke, C. J. F. & Lazarowicz, A. (2021) Building Picnic Tables, Building Connections with the Community. *Science and Children*.
- Hill, K. D. & Burke C. J. F. (2020) Equity and Education in the United States.
- Lupinacci, J., Lowenstein, E., Burke, C., Lazarowicz, A. (2017) Teaching for Equity and Environmental Justice. *Green Schools Catalyst Quarterly*.
- Burke, C.J.F. & Hudson, T. (2015) Whose knowledge counts in an Ed.D. program? Relationship building to illuminate opportunities and challenges. in V. Stead (Ed.), *Higher education theory, policy, and praxis: Vol. 5. The Education Doctorate (Ed.D.): Issues of Access, Diversity, Social Justice, and Community Leadership*. New York, NY: Peter Lang.
- Burke, C.J.F. & Adler, M.A. (2013). Personal consequences of compliance and resistance to mandated reforms for teachers in low-performing schools *Journal of Urban Learning, Teaching, and Research*.
- Otto, C., Everett, S., Luera, G., & Burke, C. (2013) Drawings as a Component of Multiple Assessments. *Networks: An Online Journal for Teacher Research*.
- Burke, C. J. F., Adler, M., & Linker, M. (2008). Resisting Erasure: Cultivating Opportunities for a Humanizing Curriculum. *Multicultural Perspectives*, 10(2), 65-72.
- Burke, C. J. F. (2007). Neighborhood Science Stories: Bridging Science Standards and Urban Student’s Lives.” *Teaching Education*. 18, (4,) 357-367.
- Burke, C. J. F. & Burke, W. (2007) Problematizing the Role of Expert within Small Scale School-University Partnerships. *The Teacher Educator*. 43 (3) 264-288.
- Burke, C.J. F. (2005) Seeing The Community as an Ecosystem. *Trends and Issues: The Journal of the Florida Council for the Social Studies*. 5-8.
- Burke, C. J. F. & Burke, W. (2005) *Student-Ready Schools for Every Student: From Elementary to High School*. *Childhood Education*. 81, 5. 281-286.

- Burke, C. J. F., Luera, G., & Moyer, R. (2004) *Preparing Pre-service Elementary School Teachers To Teach Science: An Evaluation of the Development and Implementation of a Reform Program at the University of Michigan-Dearborn*. *Michigan Journal of Teacher Education*. 1,2. 42-47.
- Burke, C. J. F. (2001). *Challenging the High Tech Tapestry by Adding Diverse Threads from the Lives of Children*, in *Science Teaching and Learning* in Deborah Tippins, Thomas Koballa, & Beverly Payne (Eds.) *Learning from Cases: Unraveling the Complexities of Elementary Science Teaching*. Boston: Allyn & Bacon.

Presentations

- Burke, C. J. F. (2019). Constructing Community by engaging students in the places they live work and play. Keynote presentation at the annual meeting of the Association for Constructivist Teaching. Ann Arbor, MI.
- Galley, E., Burke, C.J.F. (2019) STEM Stewards Connecting STEM content to PBE partnership experiences. Workshop presented at the SEMIS Summer PD. Ypsilanti, MI
- Burke, C. J. F., (2019) Place-Base Education as a Framework for Promoting Social, Cultural and Ecological Assets with Pre-service Teachers. Paper presented at the annual meeting of the American Educational Research Association. Toronto, ON.
- Stewart, K. Burke C.J.F., Askari, E. (2018) Can We Call this Racism?" Flint Students Respond to the Water Crisis. Paper presented at the annual meeting of the American Educational Research Association. New York, NY.
- Burke, C. J. F., Lazarowicz, A. (2017) Engaging Students with Community to Build a Neighborhood Park. Paper presented at the annual GLSI Place Based Education Conference. Ypsilanti, MI.
- Burke, C. J. F., Laws, T., Byrd, C., Dorrah, K. (2017) Detroit Environmental Justice Organization Database. Poster presented at the MCubed Symposium. Ann Arbor MI.
- Burke, C. J. F., Laws, T., Byrd, C., Dorrah, K. (2017) Detroit Environmental Justice Organization Database. Poster presented at the University of Michigan Dearborn MCubed Symposium. Dearborn, MI.
- Askari, E. Bukre, C. J. F. Stewart, K. Selig, S. (2017) Change Day: How a High School Environmental Justice Class Transformed Student Identities, Prompting Civic Action. Paper presented at the annual meeting of the American Educational Research Association. San Antonio, TX.
- Voelker, L. Burke, C. Lantz, M. Avenemos, E. Segrist, C. Borachi, T. Roundtree, A. Harris, K. Smith, D. Lopez, O. (2017). (Re)Building Our Community Spaces: Engaging in Placed-Based Education to Transform Local Community Spaces. Panel presentation at Ecojustice and Activism Conference. Ypsilanti, MI.
- Lazarowicz, A., Burke, C. J. F. (2016) School and Community Engagement – How 3 Burned and Empty Lots Turned into Hope for the Future. Presentation at the SEMIS Annual Community Forum. Ypsilanti, MI.

- Clarkson, W., Swift, C., Hughes, K., Burke, C. J. F., Burgess, C., Elrod, A., Howard, B., Stahl, L. Matzke, D. Board, D. (2016) *Astronomical Data in Undergraduate Courses*. Paper Presented at the 228th Meeting of the American Astronomical Society. San Diego, CA.
- Burke, C.J.F. (2016) *Science in Community: Examining the Complexity of Preparing Preservice Teachers to Cultivate Science Agency*, Paper presented at the Annual meeting of the American Educational Research Association. Washington D.C.
- Burke, C.J.F., Lazarowicz, A. (2015) *Continuing to Connect to Southwest Detroit: Connecting Kids and Adults to Their Community and Nature*. Presentation at the SEMIS Annual Community Forum. Ypsilanti, MI.
- Burke, C.J.F. (2014) *Cultivating Ecojustice & Science Agency Through Academic Service Learning*. Paper presented at the annual conference of the National Association of Multicultural Education Tucson, AZ.
- Burke, C.J.F., Lazarowicz, A. (2013) *Making Seed Bombs*. Workshop presented at the South East Michigan Stewardship Coalition 3rd annual Community Forum. Dearborn, MI
- Burke, C.J.F. (2013) *Layered Science: Exploring rain gardens with 5th Graders and pre-service teachers to develop science agency*. Presentation at the Ecojustice and Activism Conference, Ypsilanti, MI.
- Lazarowicz, A., Burke, C.J.F. (2012) *Neinas Elementary and the University of Michigan-Dearborn Partnership*. Presentation at the GLSI Place Based Education Conference. Lansing, MI.
- Burke, C.J.F. (2012) *Different Experiences = Different Questions + Different Answers: Diversifying the STEM Pathways*. Conference workshop National Association of Multicultural Education annual conference. Philadelphia, PA.
- Burke, C. J. F. (2012) *School/Community Gardens: The Need to Cultivate Communities of Practice for Teachers*. Paper presented at the annual conference of the American Educational Research Association. Vancouver, British Columbia.
- Adler, M. A., Burke, C. J. F. (2012) *Personal Consequences of Compliance and Resistance to Mandated Reforms for Teachers in Low-Performing Schools*. Paper presented at the annual conference of the American Educational Research Association. Vancouver, British Columbia.
- Burke, C. J. F. & Suanders, A (2010) *Identifying the Causes of Success and Failure in Sustaining Instructional Reform in Science*. Paper presented at the annual conference of the American Educational Research Association. Denver, CO.
- Burke, C. J. F. Adler, M. (2008) *Re-evaluating Who's at Risk: A Case Study of 5th Grade Teachers*. Paper presented at the annual meeting of the National Association of Multicultural Education. New Orleans. November 13th.
- Burke, W.; Burke, C. J. F. (2007) *Working Towards Shared Responsibility and Accountability Within School-University Partnerships*. Paper presented at the annual meeting of the American Educational Research Association. Chicago, IL

- Burke, C. J. F.; Moyer, R.; King, D. (2007) *What is an epistemology? Examining proximal vs. Distal understandings of the Nature of Science in Pre-service teachers science autobiographies*. Paper presented at the annual meeting of the National Association of Research in Science Teaching. New Orleans, LA.
- Adler, M. A., Burke, C. J. F., Malymeik, J., Kirby, C., & Brunvand, S. (2007) *When curriculum reform collides with assessment: A case study of 5th grade teachers struggling to make meaningful connections between the lives of their students and the mandated curriculum*. Paper presented at the 19th Annual Conference on Ethnographic and Qualitative Research in Education, Cedarville, Ohio.
- Burke, C. J. F. ; Burke, W.; Adler, M.; Linker, M.; Douglas, N.; Olwell, R. Malymeik, J.; Cramer, C. (2006) *Bridging the Divide and Blurring the Boundaries: Examining the Issues Within Small Scale School-University Collaborations*. Paper presented at the annual meeting of The American Educational Research Association. San Francisco, CA.
- Burke, C. J. F.; Burke, W. (2006). *Problematizing the Role of "Expert" in School-University Collaborations*. Paper Presented at the annual meeting of the Association of Teacher Educators Atlanta, GA.
- Burke, C. J. F. (2005) *Stories about our community: Using narrative to construct science understanding*. Paper presented at the annual meeting of the American Educational Research Association. Montreal.
- Burke, C. J. F. & Luera, G. (2004). *Cultivating the Relationship between Knowledge, Attitude, and Behavior: Implications From an Elementary Science Teacher Education Program*. Paper presented at the Annual meeting of the Association of Teacher Educators. Dallas TX
- Burke, C. & Luera, G. (2004) *Assessing a Complex Teacher Education Program in the Age of Accountability*. Paper presented at the annual meeting of the American Association of College Teacher Educators. Chicago, IL.
- Burke, C. J. F. (2003) *What Makes This a Horse: The Role of Social Context in the Construction of Science Meaning*. Paper Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Burke, C. J. F., Luera, Gail, Moyer, Richard, Lacy, Karissa (2003) *Preparing Pre-service Elementary School Teachers To Teach Science: The Initial Findings of a Six-Year Evaluation of a Redesigned Science Education Program*. Paper Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Burke, C. J. F., Luera, Gail, Moyer, Richard, Lacy, Karissa (2003). *Preparing Pre-service Elementary School Teachers To Teach Science*. Symposium at the annual meeting of the Association of Teacher Educators. Jacksonville, FL
- Luera, Gail, Nesmith, Judy, Burke, C. J. F. (2003) *The Development and Implementation of a Science Education Capstone Course*. Workshop at the annual meeting of the Association of Educators of Teachers of Science. St Louis, MO.

- Burke, C. J. F. (2002) *Negotiating Boundaries and Spaces: An Examination of the Social Context and Process at Douglas Elementary*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Burke, C. J. F. (2000). *How do Teachers Envision Computers in Their Classroom? An Examination of Teacher Proposals for Curriculum/Technology Integration*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Burke, C. J. F. (2000) *The Impact of Learning Standards on a Teacher Trying to Implement Culturally Relevant Pedagogy*. Paper presented at the annual meeting of the National Association of Research on Science Teaching, New Orleans, LA.
- St. Julien, John, Burke, C. J. F., Zembylas, Michalinos, Nichols, Sherry. (2000) *Science Genres & Cuisines: An Examination of the Nature of Science Grounded in New Orleans Tradition*. Symposium conducted at the annual meeting of the National Association of Research on Science Teaching, New Orleans, LA.

Courses and Curriculum Development

Pre-service Science Education Courses Taught or Developed

- NSCI 232 – Learning by Inquiry Earth Space Science
- EXPS 220 – Introduction to Science for Elementary Teachers
- EDD 485/585 – Elementary Science Methods
- EDD 480/580 – Secondary Science Methods
- EDD 680/685 – Advanced Science Methods for Secondary/Elementary Teachers
- EXPS 420 – Science Education Capstone
- EDD 575 – Integrating Science and Literacy

Graduate Educational Research Courses Taught or Developed

- EDK 500/700 – Introduction to Educational Research
- EDK 823 – Qualitative Research Methods in Education
- EDK 850 – Proposal Development
- EDA 610/810 – Scholarly Writing
- EDK 990 – Doctoral Qualifying Exam/Proposal Development
- EDD 992 – Dissertation/Applied study for EdD
- EDK 995 – Doctoral Dissertation/Applied Study

Graduate Curriculum and Foundation Courses Taught or Developed

- EDD 717 – Seminar in Curriculum and Practice
- EDB 725 – Seminar in Metropolitan Education
- EDD 719 – Review of Research in Teaching
- EDA 820 – Public Pedagogy
- EDK 610 – Critical Pedagogy
- EDA 515 – Community and Schools: Partnerships
- EDA 520 – Community Action: Detroit a Case Study
- EDA 521 – Community Based Education Seminar

Honors Program Courses Taught or Developed
LIBS 330 – Innovators Project Development
LIBS 430 – Innovators Capstone

Doctoral Students Supervised

Dissertation Committee Chair

1. Truman Hudson Jr. Aug 2013
Investigating Student Voice: Embedding Bronfenbrenner's Ecological Systems Theory In An Economics Teacher's Classroom
2. Andrea Juarez Aug 2013
Language Variance and its Impact on Women of Color in Community College: Perceptions of Standard and non-Standard English
3. Fleda Fleming Aug 2014
Opposite Gendered African American Siblings from Low to Middle Socioeconomic Status Families and Female Favored Differential School Outcomes: A Phenomenological Interview Study
4. Kristian Stewart Dec 2015
What's Left Unsaid: Rewriting and Restorying in a South African Teacher Education Classroom
5. Albert Hodge Oct 2016
African American Superintendents' Experiences with a Midwest State's Hiring Practices
6. Timothy Hartge Nov 2016
Business Professors Using High-Quality Connections: A Connection to Student Self-Efficacy?
7. Amira Shourbaji Feb 2017
"We Are The Hyphen In-between" Muslim Arab-American Women and Education: Intersecting Gender, Culture, and Religion
8. Lina Jawad April 2017
Examining College Readiness in an Early College Program that Focuses on Health Careers: Perceptions of Graduating Students
9. Carrie Zielinski (Co-Chair) Nov 2017
A "Re-Envisioned" Instruction Model: Minimizing Students' Learning Difficulties in Mathematics
10. Kelli Hughes July 2019
Black Narcissus: The Role of the Suburban Othermother

Dissertation Committee Member

1. Monica Eraqi Feb 2014

Arab-Americans and Muslim-Americans Then and Now: From Immigration and Assimilation to Political Activism and Education

2. Afrin Alavi April 2014

Standardized Testing of the Non-Standardized Arabic-Speaking ELLs: A Misalignment of Perceptions

3. Emily Wang Dec 2016

Identity and Self Reflection: Six Arab Muslim Immigrant Women Tell Their Stories

4. Rashid Faisal May 2020

A Critical Autoethnography of a Post-Brown Principal's Effort to Develop African American Students' Academic Identity and Achievement Orientation

Current Doctoral Students Chair

1. Aaron Kinzel
2. Gloria Davis
3. Macell Meyers
4. Asia Mohamed
5. Ashley Mastroianni

Current Doctoral Students Committee Member

1. Eric McCloud
2. Dawn Barbosa
3. Lisa Wilerick

Master Thesis Supervised

1. Dana Brown
2. Chandrika Williams
3. Cassie Byrd
4. DeShaunda Sullivan
5. William Paris
6. Frank McGee
7. Kye Campbell-Fox