Anthony M. Perry

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Educational Background

Texas Tech University, Lubbock, Texas 2021
Ph.D., Curriculum & Instruction, Concentration: STEM Education
Dissertation: *Conceptualizing and Investigating Student Pathways into Secondary STEM-CTE Concentrations*

Northwestern University, Evanston, Illinois 2012
M.S., Education-Secondary Science: Physics

University of Wisconsin, Madison, Wisconsin 2007
B.S. Astronomy-Physics

Academic Appointments

University of North Dakota, Grand Forks, North Dakota 2023- present
Assistant Professor, STEM Education; College of Education and Human Development

Massachusetts Institute of Technology, Cambridge, Massachusetts 2021- 2023
Postdoctoral Associate; Institute for Data, Systems, and Society

Courses Taught

1. EFR 512 Survey Design and Analysis (graduate, asynchronous)
2. HE 569 Diversity Systems and Policy in Education (graduate, asynchronous)
3. TL 339 Teaching with Technology (undergraduate, in-person)

Publications

*** Student Researcher

1. Juried/Refereed

1. Chen, C., Said, T., Sadler, P., **Perry, A,** & Sonnert, G.(2024). The Impact of high school science pedagogies on students' STEM career interest and on their ratings of teacher quality. *Journal of Research in Science Teaching*. https://doi.org/10.1002/tea.21948

2. Zhang, H., **Perry, A.**, & Lee, I. (2024). Developing and validation of artificial intelligence literacy concept inventory assessment: An instrument to assess artificial intelligence literacy among middle school students. *Journal of Artificial Intelligence in Education*. https://doi.org/10.1007/s40593-024-00398-x

3. McBride, R., **Perry, A.** &, Kinsinger, B. (2024) Leveraging faculty learning communities to spark cultures of innovation across technical programs. *Journal of Applied Research in the Community College,* 31(3), p. 199-214.

4. **Perry, A. M.** (2023). Mutually beneficial school-industry partnerships in STEM education: An aspirational case study. In J. L. Spott, L. J. Sobrehad, & R. L. Hite (Eds.), *Developing and sustaining STEM programs across the K-12 education landscape* (pp. 232–252). IGI Global. https://doi.org/10.4018/978-1-6684-7771-7

5. Zhang, H., Couch, S., **Perry, A**., Estabrooks, L., Kalainoff, M. (2023), Role models' influence on student interest in and awareness of career opportunities in life sciences. *International Journal of Science Education, Part B* (2023), 13(4), p.381-399. https://doi.org/10.1080/21548455.2023.2180333

6. **Perry, A.** (2022). Why computing? Motivation and mathematics to pursue postsecondary CIS education. *Journal of Research in Technical Careers*, 6(1), 12-28. https://doi.org/10.9741/2578-2118.1112

7. Ewell, E., Haglid, H., Truszkowski, E., Walicki, C., DeMeulder, P., DeMeulder, M., Stephens, T., Zhuang, X., Trama, C., Hamilton, A., Mo, D., Wohner, J., Furrey, R., **Perry, A.**, Hu, S., Labowsky, H. (2022). From high school chemistry to real-world problem-solving by invention. *Journal of Chemical Education*, 99(5) 2012-2019. https://doi.org/10.1021/acs.jchemed.2c00135

8. **Perry, A.** (2022). Student engagement, no learning without it. *Creative Education,* 13(4), 1312-1326. https://doi.org/10.4236/ce.2022.134079

9. Zhang, H., Estabrooks, L., and **Perry, A.** (2019). Bringing invention education into middle school science classrooms: A case study. *Technology & Innovation, 20*(3), 235-250. https://doi.org/10.21300/20.3.2019.235

10. **Perry, A**., & Estabrooks, L. (2019). Let's invent! *The Science Teacher*, *86*(6), 37–43.

3. Non-juried/non-refereed

1. Estabrooks, L., Zhang, H., **Perry, A.**, & Chung, A.-M. (2019). Where's the CS in invention? An exploration of computer science in high school invention projects. Lemelson-MIT Program and CSforALL. Retrieved from: https://doi.org/10.35542/osf.io/tsk9w

2. Invention Education Research Group. (2019). Researching invention education: A white paper. Retrieved from The Lemelson Foundation website: https://inventioneducation.org/wp-content/uploads/2020/02/Researching-Invention-Education-White-Paper.pdf

4. Invited

1. Hong, E.* and **Perry, A.** Planting the seed: Growing community-based PBL teachers with BLOSSOMS. *Journal of STEM Education: Innovations and Research, 31*(2), 31-35.

Professional Presentations

1. **Perry, A.** and Motoya, J. (April 2024) What's the Value? Motivations to Pursue Secondary Computing CTE Concentrations. [roundtable presentation] American Education Research Association Conference, Philadelphia, Pennsylvania. https://aera24-aera.ipostersessions.com/Default.aspx?s=56-C3-D8-BD-E2-AF-56-F0-DC-76-BE-60-C1-CC-D9-84

2. **Perry, A.** (April 2024). Designing Student-Industry Partners in Secondary STEM Education: A Comparative Case Study. [paper presentation] American Education Research Association Conference, Philadelphia, Pennsylvania.

3. **Perry, A.** Kinsinger, B., & McBride, R. (November 2023). Infusing Entrepreneurship in Postsecondary CTE Through Learning Communities. [poster presentation] Association for Career and Technical Education Research, Phoenix, Arizona.

4. **Perry, A.** Gottlieb, J., & Childers, G. (April 2023). What counts as STEM (and for whom)? The case of secondary CTE-engineering courses. [paper presentation] American Education Research Association Conference, Chicago, Illinois.

5. **Perry, A.**, Montoya, J., Ecton, W., Hughes, A., & Martino, L. (November 2022). From multidisciplinary to interdisciplinary: Looking toward a future of integrative CTE research. [symposium]. Association for Career and Technical Education Research, Las Vegas, Nevada.

6. **Perry, A**. (November 2022). Mutually beneficial school-industry partnerships: Comparing urban, suburban, and rural settings. 108th Mississippi Valley Technology Teacher Education / Southeastern Technology Education Conference, Nashville, Tennessee.

7. **Perry, A.,** Childers, G., Gottlieb, J., & Kelly, D. (April 2022). Policy windows for federal STEM-CTE: Historical perspectives and future directions [poster presentation]. American Education Research Association Conference, San Diego, California.

8. **Perry, A.** (December 2021). Motivational pathways into postsecondary computer and information systems [abstract paper presentation]. Association for Career and Technical Education Research, New Orleans, Louisiana. ***Conference award for most outstanding abstract paper presentation**

9. Couch, S., Kalainoff, M., Estabrooks, L., **Perry, A.**, Zhang, H., Ayele, A., Marvelle, A., Haney, C., and Cameron, A. (April 2021) Responsive (re)design in problem-based education: the Biotech-in-Action program. America Education Research Association, online.

10. Estabrooks, L., Zhang, H. **Perry, A.** Couch, S., and Chung, A. (April 2021) Developing computational thinking skills through technological invention. Presented at America Education Research Association, online.

11. Couch, S., Kalainoff, M., Estabrooks, L., **Perry, A.**, Zhang, H. Ayele, A., Marvelle, A., Hanley, C., and Cameron, A. (April 2021) Integrating authentic learning with career role models to promote student interest in biosciences. Presented at NARST Annual International Conference, online.

12. **Perry, A.** & Jeffers, M. (March 2021) Organizational habitus and postsecondary career and technical pathways. Association for Education Finance and Policy, online.

13. **Perry. A.** (December 2020). Is Engineering Technology a STEM-CTE Pathway for all? The Association for Career and Technical Education Research, online. ***Conference award for most outstanding research poster**

14. Zhang, H., Estabrooks, L., and **Perry, A.** (April 2020). Integrating invention education into STEM coursework: Teachers' perspectives and experiences. American Education Research Association, online.

15. **Perry, A.** (November 2018). Technical, vocational, and practical education: epistemological beliefs of career changers. Association for Career and Technical Education Research, San Antonio, Texas.

Grants and Contracts Funded

1. Integrating Entrepreneurship in Postsecondary CTE Education. ECMC Foundation Postsecondary CTE Collaborative Mini-Grants. 2022-2024. **PI: Anthony M. Perry.** Co-PIs: Rosemary McBride (University of Wyoming) & Bradley Kinsinger (Kirkwood Community College). $5,000.

2. ECMC Foundation Postsecondary CTE Doctoral Research Fellowship. 2020-2021. $10,000.

Honors/Awards

1. ACTER Conference Most Outstanding Paper (December 2021)
2. ACTER Conference Most Outstanding Poster (December 2020)

Service

1. ACTER Conference Co-Chair (2024)
2. Grand Forks Public Schools Work-Based Learning Committee (2023-present)
3. Career and Technical Education Research Editorial Board (2022-present)

Related Professional Experience

Lemelson-MIT Program, MIT School of Engineering**,** Cambridge, Massachusetts 2015-2021
Invention Education Coordinator

Sarah E. Goode STEM Academy, Chicago, Illinois 2012-2015
Founding Science Teacher

Museum of Science and Industry, Chicago, Illinois 2009-2011
Senior Coordinator, Guest Experiences