

AMANDA K. RISKE
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EDUCATION

- 07/2022 PhD Arizona State University, Tempe, AZ
Learning, Literacies, and Technologies
Specialization in Statistical Literacy within K-12 Education
Certificate in Social Science Research Methods
- 2007 M. PHIL University of Oslo-Oslo, Norway
Comparative International Education
- 2003 BS Arizona State University- Tempe, AZ
Secondary Education Mathematics and
Certificate in Scandinavian Studies

PUBLICATIONS

- Riske, A. (In review). Data-driven decision-making in K-12 project conditions: Considering the consequential contexts of data and statistics. *Statistics Education Research Journal*.
- Koellner, K., Placa, N., Seago, N., & **Riske, A.** (2021) Understanding how context impacts teacher learning: Three PDs and three sites. In M. Inprasita, N. Changsri, & N. Boonsena (Eds.), *Proceedings of the 42nd Annual Psychology of Mathematics Education North America*. Vol 3, 112-117. Khan Kaen, Thailand.
- Riske, Amanda K.**; Cullicott, Catherine; Mohammad Mirzaei , Amanda M.; Jansen, Amanda; & Middleton, James. (2021) [Into math graph tool: Exploring student engagement](#). *Mathematics Teacher: Learning and Teaching, PK-12*. 114 (9), 677-684.
- Rylak, D., Mason, M., & **Riske, A.** (In review). Writing qualitatively as a process of becoming through creative nonfiction. *Cultural Studies/Critical Methodologies*.
- Coats, C., Singha, S., Zuiker, S., & **Riske, Amanda K.** (Forthcoming). Sensorial attunement as decolonizing aesthetic process. In M. Sharma & A. Alexander (Eds.), *Routledge Companion to Decolonizing Art, Craft, and Visual Culture Education*. Routledge Taylor & Francis.
- Domínguez, A., Ha, J., **Riske, A.**, Rylak, D., Su, M, & Vasquez, A. (In review). Confronting white supremacy in higher education through de/re-constructing identity narratives. In D. Green (Ed.). *Abolishing white supremacy*, Peter Lang Group.

Zuiker, Steven J. & **Riske, A. K.** (2021). [Integrating gardens with schools](#): Mapping opportunities and challenges for engagement and learning through design. *Environmental Education Research*, 1-20.

Riske, A. K., & Middleton, J. (2020). [Developing data literacy](#), statistical literacy, statistical reasoning, and statistical thinking through authentic data contexts. *OnCore, The Online Journal of the AATM*, Spring, 75–81.

RESEARCH EXPERIENCE

- August 2018-May 2022 RESEARCH ASSISTANT at ARIZONA STATE
PI: Steven Zuiker, PhD
Investigating student engagement in garden-based learning contexts and employing design-based research methods.
- January 2021- May 2022 RESEARCH ASSISTANT at ARIZONA STATE
 Taking a Deep Dive (TaDD)
PI: Karen Koellner, PhD
Investigating the residual learning of math teachers who participated in NSF professional developments 3-4 years prior. Interviewing teachers, collecting and analyzing data, and contributed to collaborative papers.
- January 2020-June 2021 RESEARCH TEAM MEMBER at ARIZONA STATE
 Green STEAM Studio
PIs: Steven Zuiker, PhD & Cala Coat, PhD
Wrote curriculum for a garden-based learning program for third grade students, and collected, managed, and analyzed data.
- January 2019- May 2020 RESEARCH ASSISTANT at ARIZONA STATE
PI: Fabio Milner, PhD
Collaborating on a Mathematics Teacher Statistical literacy survey. Developed and administered a survey on statistical literacy to Arizona teachers, and conducted teacher interviews.
- September 2019- June 2021 RESEARCH TEAM MEMBER at ARIZONA STATE
 Secondary Mathematics, in-the-moment, Longitudinal Engagement Study (SMiLES)
PIs: Amanda Jansen PhD (University of Delaware) and James Middleton, PhD (Arizona State University)
Consented participants, collected and analyzed data, conducted observation protocols, and contributed to collaborative papers.
- 2005-2007 RESEARCH ASSISTANT at UNIVERSITY OF OSLO
 Program for International Student Assessment (PISA+) Project
Project Director: Kirsti Klette

Collected data through videoing Norwegian, Science, and Mathematics classrooms in middle schools around Oslo and supporting focus group interviews.

TEACHING

- Fall 2021 Teaching Assistant for Dr. Karen Koellner. MTE 311: Geometry, Algebra, Statistics and Probability for K-8 Teaching (3-credits)
- Fall 2020 Instructor. MTE 281: Investigating Space: Geometry, Measurement, and Visualization (3-credits)

EMPLOYMENT IN K-12 TEACHING & DEVELOPMENT

- 2017-2018 GEORGETOWN DAY SCHOOL, WASHINGTON, D.C.
Middle School Mathematics Teacher
- 2016-2017 THINK GLOBAL SCHOOL
Curriculum Developer
- 2014-2016 WASHINGTON INTERNATIONAL SCHOOL, WASHINGTON, D.C.
High School Mathematics Teacher, International Baccalaureate Program
- 2009-2014 WESTERN INTERNATIONAL SCHOOL OF SHANGHAI, CHINA
Head of Math Department
Explore China Trip Coordinator
Middle and High School Mathematics Teacher
International Baccalaureate Program
- 2007-2009 BONN INTERNATIONAL SCHOOL, GERMANY
Middle and High School Mathematics Teacher
International Baccalaureate Program
- 2006-2007 OSLO INTERNATIONAL SCHOOL, NORWAY
Middle School Mathematics Teacher

INVITED PRESENTATIONS

- 2021 Middleton, J., **Riske, A.**, Cullicott, C., Hedrick, L., Smith, E., Mohammad Mirzaei, A., & Jansen, M. (2021, April 28-May 1). *Supporting students' engagement with mathematics: Strategies for improving motivation* [Invited presentation]. National Council for Teachers of Mathematics, 2021 Virtual Annual Meeting.

CONFERENCE PRESENTATIONS

- 2022 Riske, Amanda. (2022, June 6-10). *Process of refining professional development intervention: Educational design research practices*. [Paper presentation]. Quality in Nordic Teaching (QUINT) conference. Hveragerði, Iceland.
- 2022 Koellner, K., Seago, N., Placa, N., & **Riske, A.** (2022, June 6-10). *Measuring teacher quality: surveys versus video-based think aloud protocols*. [Paper presentation]. Quality in Nordic Teaching (QUINT) conference. Hveragerði, Iceland.
- 2022 Koellner, K., Seago, N., Placa, N., & **Riske, A.** (2022, February). *Enduring impacts of professional development: Three cases that illustrate evolving learning five years after participating in different PD projects* [Paper presentation]. The 12th Congress of the European Society for Research in Mathematics Education [CERME], Virtual conference, Bolzano, Italy.
- 2022 Middleton, J.A., Wiesel, A., Jansen, A., Zhang, X., **Riske, A.**, and Smith, E.. (2022, January 7). *A longitudinal analysis of perceived teacher and peer support on motivation and achievement in high school mathematics* [Conference paper]. NCTM Research Conference, Online.
- 2021 Riske, Amanda. (2021, November 17-20). *Exploring the consequential context of statistics*. [Conference session]. NCTM Fall Virtual Conference, Online.
- 2021 Koellner, K.; Seago, N.; Placa, N.; Carlson, D.; **Riske, A.** & Yormak, G.. (2021, July 16). *Taking a deep dive: Investigating the impact of PD on teachers' uptake*. [Poster presentation]. NSF Discovery Research PreK-12 PI-Meeting, Online.
- 2021 Koellner, K., Placa, N., Seago, N., & **Riske, A.** (2021, July) *Understanding how context impacts teacher learning: Three PDs and three sites* [Paper presentation]. 42nd Annual Psychology of Mathematics Education North America, Khan Kaen, Thailand.
- 2021 Riske, Amanda. (2021, July 17). *Consequential contexts of data: Professional development handbook*. [Poster presentation]. NSF Discovery Research PreK-12 PI-Meeting, Online.
- 2021 Riske, Amanda (2021, February). *Professional development audit of statistics education at the NCTM annual conferences*. [Poster presentation] Institute for Social Science Research Graduate Students Poster Galley, Arizona State University, Tempe, Arizona.
- 2020 Zuiker, S. J., **Riske, Amanda**, Marston, S., Jordan, M., Wakefield, W., Weinberg, A., & Thompson, M. (2020, October). *Gardening by design: Understanding and enhancing garden-based teaching in schools*. [Poster presentation] Annual Conference of the North American Association for Environmental Education, Tucson, Arizona.

- 2020 Riske, Amanda. (2020, April 17-22). *Designing data and statistics co-explorations for students and teachers*. [Paper presentation]. AERA conference, San Francisco, CA. (Conference canceled)
- 2020 Zuiker, Steve & **Riske, Amanda**. (2020, April 17-22). *Integrating gardens with schools: Mapping opportunities and challenges for engagement and learning through design* [Round Table presentation]. AERA conference, San Francisco, CA. (Conference canceled)
- 2020 Riske, Amanda & Milner, Fabio. *Secondary mathematics teachers' reflections on statistical literacy* (2020, April 1-4). [Conference session]. NCTM Annual Conference. Chicago, IL. (Conference canceled)
- 2020 Riske, Amanda. (2020, February 28). *Professional development audit of statistics education at the NCTM annual conferences*. [Poster presentation]. TCDC Graduate Conference. Tempe, AZ.
- 2019 Riske, Amanda. (2019, June 19-21). *Co-exploring statistics*. [Paper presentation]. Quality in Nordic Teaching (QUINT) conference. Oslo, Norway.
- 2019 Perez Cortes, Luis; **Riske, Amanda**; Weiner, Steve; & Warr, Melissa. (2019, January 29). *Education by design*. [Poster presentation]. TCDC Graduate Conference. Tempe, AZ.
- 2019 Dominguez, Ashley & **Riske, Amanda**. (2019, January 29). *Measuring high school students' self-efficacy beliefs in a statistics intensive course*. [Poster presentation]. TCDC Graduate Conference. Tempe, AZ.
- 2018 Riske, Amanda & Peabody, David. (2018, April 25-28) *Calculated change: Teaching social justice issues in the math classroom*. [Conference session]. National Council of Teachers of Mathematics Annual Conference. Washington, DC.
- 2017 Riske, Amanda, & Peabody, David. (2017, April 5-8) *Calculated change: Teaching social justice issues in the math classroom*. [Conference session] National Council of Teachers of Mathematics Annual Conference. San Antonio, TX.
- 2008 Riske, Amanda. (2008, March) *Using media in the math classroom*. [Conference session] Association of German International Schools Conference. Hamburg, Germany.
- 2007 Riske, Amanda. (2007, April) *Communities of practice: A case study of untrained teachers in Northern Ghana*. *H.E.A.D.* University of Oslo Conference. Oslo, Norway.

PROFESSIONAL DEVELOPMENT WORKSHOPS

- 2021 Riske, Amanda. (2021, August 3-7). *Data justice: Co-exploring the ethical impacts of statistics*. [Workshop] Washington International School Summer Institute for Teachers. Virtual Professional Development Conference.
- 2020 Riske, Amanda & Ramsey, Kaila. (2020, August 3-7). *A slow spark: Engaging students in data collection to increase data literacy and agency*. [Workshop] Washington International School Summer Institute for Teachers. Virtual Professional Development Conference.
- 2019 Riske, Amanda. (2019, August). *Slow data collection: Front page news*. [Workshop] Washington International School Summer Institute for Teachers. Washington, DC.
- 2018 Riske, Amanda. (2018, August). *Slow data collection*. [Workshop]. Washington International School Summer Institute for Teachers. Washington, DC.
- 2018 Riske, Amanda. (2018, January 26) *Slow data collection: Front page news*. [Workshop] Progressive Education Summit. Baltimore, MD.
- 2018 Riske, Amanda. (2018, May) *Slow data collection*. [Webinar]. Global Math Department. <https://www.bigmarker.com/GlobalMathDept/Slow-Data-Collection>
- 2018 Riske, Amanda. (2018, July 8-11). *Using the city as a resource*. [Onsite professional Development] University Preparatory. Seattle, Washington.
- 2018 Riske, Amanda. (2018, Spring) *Using the city as a resource*. [Five-session course] Georgetown Day School. Washington, DC
- 2017 Riske, Amanda. (2017, October 7). *Math and media*. [Presentation] Newseum: Teacher Open House. Washington, D.C.
- 2017 Riske, Amanda, & Peabody, David. (2017, May 12-13). *Calculated change: Teaching social justice issues in the math classroom*. Project Zero Perspectives: Making, Innovating. Learning, Quaker Valley School District, Pittsburgh, PA.
- 2015 Riske, Amanda. (2015, October 1-3). *Designing interdisciplinary questions in the math classroom*. [Workshop] Project Zero Perspectives: Zeroing in on Learning. International School of Amsterdam, Amstelveen, Netherlands.

OTHER PUBLICITAIONS

- Buchanan, J., Hinyard, B., & Riske, A. K. (2021, January 26). [“Leading today, envisioning tomorrow: Leveraging current systems to cultivate adaptive school cultures”](#) [Blog]. *Talking About Design*.

Wright, T., & Riske, A. K. (2020, August 25). [“Taking Cues from the Structure, its Design, and its Materials: Designing Educational Tours with Tim Wright of Attucks Adams”](#) [Blog]. *Talking About Design*.

Riske, A. K. (2020, April 21). [“How are teachers handling massive school closures?”](#) [Blog]. *Talking About Design*.

Riske, A. K. (2020, February 21). [“Case Study – The New York City subway”](#) [Blog]. *Talking About Design*.

AWARDS & GRANTS

External

2022 Quality in Nordic Teaching (QUINT) Ph.D. Fellow Grant, June, travel expenses

2021 Philanthropic Educational Organization Scholar Award, P.E.O. International, \$20,000

2020-2021 Community for Advancing Discovery Research in Education (CADRE) Fellowship Program, funded by the National Science Foundation's Discovery Research PreK-12 (DRK-12) program

2019 Quality in Nordic Teaching (QUINT) Ph.D. Fellow Grant, June, travel expenses

2004-2005 Fulbright Fellowship, University of Oslo. Oslo, Norway.

Internal

2021 Dissertation Grant, Learning, Literacies, and Technology PhD Program, Mary Lou Fulton Teachers College, \$1000

2019 & 2020 Conference Travel Grant, Mary Lou Fulton Teachers College Travel Grant, \$750

2020 Conference Travel Grant, Graduate & Professional Student Association, Arizona State University, \$900

COMMERCIAL PRODUCTS

2020 Steam-in-a-Backpack. Co-designed and sold 4,000 STEAM educational activities and materials bundled and delivered in backpacks with the non-profit organization, Tonto Creek Camp.

PROFESSIONAL SERVICE

Cohort Representative for Learning, Literacies, and Technologies PhD Program Committee Arizona State University, Mary Lou Fulton Teachers College, 2020-2021

Journal Reviewer

Mathematics Teacher: Learning and Teaching (MTLT), 2020-present

Advisory Boards

Curriculum Review Team, *Plus Wonder*, 2020
Education Advisory Team, *Newseum*, 2017-2019

Team Member

Talking about Design, talkingaboutdesign.com, 2018 - present

Webinar Host

Global Math Department, 2017- present

Member

American Education Research Association
National Council of Teachers of Mathematics
American Statistical Association
TODOS, Math for All

COMMUNITY SERVICE

Advisory Boards

Tempe Bicycle Action Group, Secretary, 2019-2021

Volunteer

SOUNDS Academy, Assist with non-profit's analytics, 2020