

APRIL B. HOLTON, PhD

Arizona State University
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PROFESSIONAL DEGREES

PhD, Learning, Literacies, and Technologies
2021, Arizona State University-Tempe, AZ
Dissertation: *Seeing Through the Noise: A Mixed Methods Study of the Development of Teachers' Argumentation Professional Vision*

MA, Educational Leadership
1998, Northern Arizona University – Flagstaff, AZ

B.S., Elementary Education
1993, University of Nevada, Reno – Reno, NV

CERTIFICATIONS AND ENDORSEMENTS

National Board Certified Teacher in Early Adolescent Science
Principal Certification, Arizona
Elementary K-8 Certification, Arizona
Middle Grade Science Approved Area, Arizona
Middle Grade Language Arts Approved Area, Arizona
Reading Specialist Endorsement, Arizona
ESL Endorsement, Arizona

TEACHING AND PROFESSIONAL EXPERIENCE

ASU Teaching Fellows Lead
2022-present, Arizona State University – Tempe, AZ

Clinical Assistant Professor
2021-present, Arizona State University – Tempe, AZ

Lead Evaluator, K-5 Deeper Dive Project
2022-2023, Arizona Science Teachers Association and Arizona Department of Education

Graduate Research Assistant
2017-2021, Arizona State University – Tempe, AZ

Science Education Consultant
2008-Present, Arizona, Nevada, and California

21st Century Integration Specialist
2014-2017, Dysart Unified School District – Surprise, AZ

Math and Science Partnership Grant Project Director
2014-2017, Dysart Unified School District – Surprise, AZ

April Holton – Curriculum Vitae (CV)

K-12 District Science Curriculum Specialist
2011-2014, Dysart Unified School District – Surprise, AZ

K-8 Instructional Coach
2010-2011, Dysart Unified School District – Surprise, AZ

Middle School Science/STEM Teacher
2008-2010, Dysart Unified School District – Surprise, AZ

Elementary Teacher
2007-2008, Scottsdale Unified School District – Scottsdale, AZ

Peer Evaluator and Cognitive Coach
2004-2007, Scottsdale Unified School District – Scottsdale, AZ

Middle School Gifted Specialist
2003-2004, Scottsdale Unified School District – Scottsdale, AZ

Middle School Science Teacher and Language Arts
1994-2003, Scottsdale Unified School District – Scottsdale, AZ

PEER REVIEWED ARTICLES

Morales, C., Goss, M., **Holton, A.**, Greenwald, E., & Henderson, J. B. (2022). The Content and the Conversation. *Science Scope*, 45(3).

Henderson, J. B., Zillmer, N., **Holton, A.**, Weiner, S., Greenwald, E., Goss, M., Lopez, M. S., Morales, C., Pearson, P. D., & McNeill, K. (2021). How science teachers DiALoG their classrooms: Towards a practical and responsive formative assessment of oral classroom argumentation. *Journal of Science Education and Technology*. doi: 10.1007/s10956-021-09921-4

CONFERENCE PRESENTATIONS

Torres, S. & **Holton, A.** (March, 2024). *More than Developing 3-D Units...Building Capacity in 3-D Teaching & Learning*. Presentation at the National Science Teaching Association Conference (NSTA), Denver, CO.

Holton, A. & Ludlow, C. (October, 2023). *ASU Teaching Fellows: A bridge to certification and degree*. Presentation at the American Association for Employment in Education Conference (AAEE), Chicago, IL.

Holton, A., Henderson, J.B., Greenwald, E., Goss, M., & Morales, C. (April, 2021). *What do you notice? Measuring Teachers' Argumentation Professional Vision*. Paper presented at the 2021 American Educational Research Association Conference (AERA), Virtual Conference.

Zillmer, N., **Holton, A.**, Henderson, J.B., Greenwald, E., Goss, M., & Morales, C. (April, 2021). *A Novel Assessment of Teacher Epistemologies Concerning Argumentation and Science*. Paper presented at the 2021 American Educational Research Association Conference (AERA), Virtual Conference.

Greenwald, E., Goss, M., Morales, C. Henderson, J.B., & **Holton, A.** (Jan, 2021). *Supporting Scientific Argumentation in the Classroom*. Workshop presented at the 2021 Association for Science Teacher Education Conference (ASTE), Virtual Conference.

Holton, A. & Henderson, J.B. (April, 2021). *Braincandy: Sparking student argumentation*. Workshop submitted at the 2021 Meeting of the National Science Teaching Association (NSTA), Chicago, IL. (Conference canceled.)

Holton, A. & Henderson, J.B. (November, 2020). *Braincandy: Sparking student argumentation*. Workshop presented at the 2020 Engage Conference of the National Science Teaching Association (NSTA), Virtual Conference.

Holton, A., Henderson, J.B., Zillmer, N., Greenwald, E., Goss, M., & Morales, C. (2020, June). *Assessing teachers' oral scientific argumentation professional vision*. Paper accepted for presentation at the 14th International Conference for the Learning Sciences (ICLS), Nashville, TN. (Conference canceled.)

Holton, A., Henderson, J. B., Greenwald, E., Zillmer, N., Goss, M., Morales, C., Lopez, M. L., & Pearson, P. D. (2020, March). *Assessing professional vision of oral scientific argumentation using video annotations*. Paper accepted for presentation at the 2020 Annual Meeting of the National Association for Research in Science Teaching (NARST), Portland, OR. (Conference canceled.)

Holton, A. & Henderson, J.B. (April, 2020). *Braincandy: Sparking student argumentation*. Workshop accepted for presentation at the 2020 Meeting of the National Science Teaching Association (NSTA), Baltimore, MD. (Conference canceled.)

Holton, A. & Henderson, J.B. (November, 2019). *Braincandy: Sparking student argumentation*. Workshop presented at the 2019 Meeting of the Arizona Science Teachers Association (AzSTA), Phoenix, AZ.

Zillmer, N., **Holton, A.**, Henderson, J. B., Goss, M., & Greenwald, E. (August, 2019). *Toward developing authentic measures of teacher epistemologies and student attitudes to argument*. Paper presented to the 2019 Meeting of the European Science Education Research Association (ESERA), Bologna, Italy.

Holton, A. & Henderson, J. B. (2019, April). *Braincandy: Supporting student talk and argumentation*. Workshop presented at the 2019 National Meeting of the National Science Teachers Association (NSTA), St. Louis, MO.

Zillmer, N., Henderson, J. B., Goss, M., Greenwald, E., **Holton, A.**, & Lopez, M. L. (2019, March). *Toward developing an authentic measure of epistemology for secondary-level science instructors*. Paper presented at the 2019 Annual Meeting of the National Association for Research in Science Teaching (NARST), Baltimore, MD.

Holton, A., Henderson, J.B., Goss, M., & Greenwald, E. (2017, June). *Developing DiALoG: A Digital Formative Assessment Tool to Support Student and Teacher Learning of Oral Argumentation*. Paper presented at the 13th International Conference for the Learning Sciences (ICLS), London, England.

Henderson, J. B., Zillmer, N., Lopez, M. S., Greenwald, E., Goss, M., Pearson, P. D., Close, K., **Holton, A.,** Fenton, C., & McNeill, K. (2018, March). *How science teachers DiALoG their classrooms: Towards a practical and responsive formative assessment of oral classroom argumentation*. Paper presented at the 2018 Annual Meeting of the National Association for Research in Science Teaching (NARST), Atlanta, GA.

Henderson, J.B., **Holton, A,** Zillmer, N., & Aguilera, E. (2018, October). *Oral and written assessments to distinguish construction/co-construction and critique*. Paper presented at the European Association for Research on Learning and Instruction (EARLI) SIG 20 and 26 Conference, Jerusalem, Israel.

Holton, A. (2016, April). *Helping Elementary Teachers Build a Foundation for Scientific Literacy*. Workshop presented for the 2016 National Science Teachers Association (NSTA) National Conference on Science Education, Nashville, TN.

Holton, A. (2015, November). *Three Dimensional Learning using Performance Tasks*. Workshop presented for the 2015 Arizona Science Teachers Association (AzSTA) Annual Conference, Phoenix, AZ.

Holton, A., Darney, J., & Hughes, H. (2014, November). *This Doesn't Feel Like an Assessment: Constructing arguments using claims, evidence, and reasoning*. Workshop presented for the 2014 Arizona Science Teachers Association (AzSTA) Annual Conference, Phoenix, AZ.

Holton, A. (2014, April). *Baby Steps: Implementing the NGSS*. Workshop presented for the 2014 National Science Teachers Association (NSTA) National Conference on Science Education, Boston, MA.

GRANTS/AWARDS

2016-2017	Mathematics and Science Partnership Grant Program (\$527,000 over fourteen months), Collaboration between Dysart Unified School District, Peoria Unified School District, and Glendale Union School District, Arizona Department of Education
2013-2015	Mathematics and Science Partnership Grant Program (\$253,700 over fourteen months), Arizona Department of Education
2013	Helios Grant Recipient for Developing Science Leaders in the Transition Years
2010	Honeywell Space Academy for Educators Recipient

PROFESSIONAL SERVICE

2024	MLFTC Topical Action Group Member-PACE, Arizona State University
2023-2024	Arizona Three-Dimensional Ambitious Science Teaching Community of Practice, Lead Facilitator, Arizona Science Teachers Association
2022	PhD Dissertation Review Committee, Alice Jane Dunlop, Curtin University

April Holton – Curriculum Vitae (CV)

2022 Spencer Foundation Research Practice Partnership Grant Review Panel
2021-present Membership and Virtual Event Committee, National Association of Research in Science Teaching (NARST)
2020-present Arizona Science Teachers Association Ambassador and Face-to-Face Professional Development Committee Member
2019-present Ethics and Equity Committee Member, National Association of Research in Science Teaching (NARST)
2021 Ad hoc Reviewer for *Teaching and Teacher Education*
2020 National Association of Research in Science Teaching (NARST) Basu Scholars Submissions Reviewer
2020 National Association of Research in Science Teaching (NARST) Conference Proposal Reviewer
2020 Ad hoc Reviewer for *Linguistics in Education*
2019 National Science Foundation DRK-12 Review Panel Member
2019, 2020 National Association of Research in Science Teaching (NARST) Graduate Symposium Proposal Review Team
2015-2017 Advanced Ed External Review Team Member
2016 STEM Conference Marketing Committee Team Member, Arizona
2013-2016 National Science Education Leadership Association (NSELA) Professional Development Committee Member