

STEPHEN D. ARNOLD

Associate Professor

College of Education, University of Arizona

Department of Teaching, Learning and Sociocultural Studies

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EDUCATION

- 2005 **University of Idaho**
Ph.D. Education (Instructional Technology Emphasis)
Dissertation: E-mail: Its Contribution to the Student/Instructor Learning and Teaching Relationship at Colleges & Universities
Major Professor: Dr. Marty Yopp
- 2001 **University of Idaho**
M.Ed. Education, Industrial Technology Education
- 2000 **University of Alaska - Fairbanks**
B.Ed. Education (K-8 Certified)

PROFESSIONAL EXPERIENCE

❖ **University**

- 2019-present Associate Professor of Instructional Technology,
Department of Teaching, Learning, and Sociocultural Studies,
College of Education, University of Arizona
- 2013-2019 Associate Professor of Instructional Technology,
Teacher Education, Elementary and Early Childhood Education,
University of Arizona – South Campus
- 2007-2013 Assistant Professor of Instructional Technology,
Teacher Education, Elementary and Early Childhood Education,
University of Arizona – South Campus
- 2005-2007 Assistant Professor of Instructional Technology,
Instructional Technology Department, College of Education,
Kent State University, Ohio
- 2001-2004 Graduate Teaching Assistant, Educational Technology,
Industrial Technology Education Department, College of Education
University of Idaho

❖ **Environment Science Education – Seasonal Park Ranger (Summer)**

- 2019 Bryce Canyon National Park, Interpretation Department,
National Park Service, Department of the Interior
Bryce, UT
- 2018 Glacier National Park, Interpretation Department,
National Park Service, Department of the Interior
Saint Mary, MT
- 2017 Denali National Park & Preserve, Interpretation Department, National Park
Service, Department of the Interior
Denali, AK
- 2016-2015 Yellowstone National Park, Interpretation, Resource Education, & Youth
Programs Department, National Park Service, Department of the Interior
Old Faithful, WY
- 2014 Grand Teton National Park, Interpretation Department,
National Park Service, Department of the Interior
Colter Bay, WY
- 1996 Denali National Park & Preserve, Interpretation Department,
National Park Service, Department of the Interior
Denali, AK
- 1995 Wrangell-St. Elias National Park, Interpretation Department,
National Park Service, Department of the Interior
Copper Center, AK
- 1994 Sitka National Historical Park, Interpretation Department,
National Park Service, Department of the Interior
Sitka, AK

❖ **Other Professional Experience**

- 2004-2005 Instructional Systems Specialist, Soldier Support Institute
Training Support Division, Department of the Army
Ft. Jackson, SC
- 2002-2004 Learning Specialist, Student Support Services (TRIO Program)
University of Idaho
Moscow, ID
- 2001-2002 AmeriCorps Member, Student Support Services (TRIO Program)
University of Idaho
Moscow, ID
- 1985-1986 U.S. Army
Honorable Discharge
Ft. Benning, GA

PUBLICATIONS

❖ Book Chapters

- Arnold, S.D. (2014). Assessing student learning online: Overcoming reliability issues. In D.G. Sampson, D. Ifenthaler, M. Spector, & P. Isaias (eds.) *Digital Systems for Open Access to Formal and Informal Learning*, Springer.
- Arnold, S.D., & De Vito, D. (2009). Electronic portfolios in teacher education: Does sequence matter? In A.M. Vilas, A.S. Martin, J.M. Gonzalez, & J.A. Gonzalez (Eds.), *Research, Reflections and Innovations in Integrating ICT in Education: Vol. 1* (pp. 649-653). Badajoz, Spain: Formatex.

❖ Refereed Journal Articles

- Arnold, S.D., & Moshchenko, M. (2009). Technology input versus input and output: Does it result in learning differences among elementary school students? In C.D. Maddux (Ed.), *Research Highlights in Technology and Teacher Education 2009* (pp. 1-9). Chesapeake, VA: Society for Information Technology & Teacher Education.
- Swan, K., Schenker, J., Arnold, S. & Kuo, C-L. (2007). Shaping online discussion: Assessment matters. *E-mentor*, 1 (18), at: http://www.e-mentor.edu.pl/_xml/wydania/18/390.pdf.

❖ Refereed Conference Proceedings

- Arnold, S. (2019). Flipping the lecture: Students demonstrate learning with the Panopto video capture system. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2019* (pp. 1340-1345). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).
- Arnold, S. (2018). E-Learning in PreK-3: Selecting and designing grade-level appropriate online tutorials. In *Proceedings of E-Learn: World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education* (pp. 795-801). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved February 15, 2019 from <https://www.learntechlib.org/primary/p/185033/>
- Arnold, S. (2017). E-Learning in PreK-3: What happens when Gen X designers create online tutorials for Gen Z learners?. In P. Resta & S. Smith (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1260-1264). Austin, TX, United States: Association for the Advancement of Computing in Education (AACE).
- Arnold, S.D. (2016, December). Rethinking e-learning media: What happens when student *Like* meets professor *Me*? In Kommers, P., Issa, T., Issa, T, McKay, E, and Isaias, P. (eds.) *Proceedings of the International Conferences International Technologies & Society 2016 and International Conference of Educational Technologies 2016*. IADIS Press.
- Arnold, S.D. (2015, November). The Yellowstone experience: Teaching and learning on a supervolcano. In the *ICERI2015 Proceedings* (ISBN: 978-84-608-2657-6). Seville, Spain: IATED

- Arnold, S.D. (2013, July). Flipping the lecture: Students go online with the Panopto video capture system. In the *EDULEARN13 5th International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-616-3822-2). Barcelona, Spain.
- Arnold, S.D. (2012, October). Assessing student learning online: Overcoming reliability issues. In Sampson, D., Spector, J., Ifenthaler, D., and Isaias, P. (eds.) *Proceedings of the IADIS Cognition and Exploratory Learning in Digital Age*. IADIS Press.
- Arnold, S.D. (2012, October). Assessing online learning with digital audio and video. In *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2012* (pp. 473-479). Chesapeake, VA: AACE.
- Arnold, S.D. (2012, July). Digital audio and video for online assessment. In the *EDULEARN12 4th International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-695-3491-5). Barcelona, Spain: IATED.
- Arnold, S.D., & Torres, D. (2012). The effects of primary and secondary language literacy in online learning. In Nunes, M. and McPherson, M. (eds.) *Proceedings of the IADIS International Conference E-Learn 2012*. IADIS Press: ISBN: 978-972-8939-71-7, pp. 279-286.
- Arnold, S.D., & Torres, D. (2011, July). The effect of literacy and second language in online learning. In the *EDULearn11 International Conference on Education and New Learning Technologies Proceedings* CD (ISBN: 978-84-615-0441-1). Barcelona, Spain: IATED.
- Torres, D & Arnold, S.D. (2011, March). Social versus technological needs for effective teaching: The case of non-traditional students. *Proceedings of the Southwest Teaching and Learning Conference* from <http://swtlc.files.wordpress.com/2010/04/swtlc-2011-proceedings2.pdf>.
- Arnold, S.D. (2010). Student E-cooperative: Computer mediated group projects. In the *International Technology, Education, and Development Conference Proceedings* CD (ISBN: 978-84-613-5538-9). Valencia, Spain: INTED.
- Arnold, S.D. (2009). Worldwide workarounds: Empowering technophobic and glitch-prone computer users in the web 2.0, free and open source software digital frontier. In the *International Conference of Education, Research, and Innovation 2009 Proceedings* CD (ISBN: 978-84-613-2955-7). Madrid, Spain: ICERI.
- Arnold, S. (2008). E-cooperative: Effective development of group presentation projects from a distance. In G. Richards (Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2008* (pp. 2467-2472). Chesapeake, VA: AACE.
- Arnold, S.D. (2008). Student interactive television presentations: Local vs. remote. In *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2008* (pp. 2517-2522). Chesapeake, VA: AACE.

❖ *Manuscript Peer Reviews*

- Margherita, B., & Schmidt, N., Editors. (2018, December). Use of Teacher Made YouTube Instructional Video Package and Student's Performance in Educational Technology in Faculty of Education, University of Calabar, Calabar. *Issues and Trends in Educational Technology*.
- Czerkawski, B., & Schmidt, N., Editors. (2017, August). Towards an Enhanced Mobile Learning Acceptance Model in Higher Education in Africa. *Issues and Trends in Educational Technology*.
- Peacock, K., & Saranchuk, N., Managing Editors. (2017, January). E-Learning Modules in the Flipped Classroom. *Canadian Journal of Learning and Technology*.
- Peacock, K., & Saranchuk, N., Managing Editors. (2015, January). Teaching Science with the Interactive Whiteboard: An Elementary Teacher's Needs and Feelings of Technology Self-Efficacy. *Canadian Journal of Learning and Technology*.

❖ *Unpublished Manuscripts*

- Arnold, S.D. & Torres, D. (2013). *Increasing online test reliability & validity*. Chapter proposal submitted to S. Koc, P. Wachira (Cleveland State University), and Xiongyi Liu (University of Maine – Orono): Information Age Publishing. Unpublished manuscript.
- Arnold, S.D. & Torres, D. (2013). *Assessment options in online instruction: Establishing a framework*. Chapter proposal submitted to S. Koc, P. Wachira (Cleveland State University), and Xiongyi Liu (University of Maine – Orono): Information Age Publishing. Unpublished manuscript.
- Devito, D., & Arnold, S.D. (2013, July). In a multi-modal world: A quantitative study on comics in the English language arts classroom. Manuscript submitted for publication.

SCHOLARLY PRESENTATIONS

❖ *Refereed Symposia*

- Arnold, S.D. (2009, June). *Instructional pathfinders: Blogs & wikis lead the way [to student learning]!* Poster presented at the 2nd annual Sloan-C International Symposium on Emerging Technology Applications for Online Learning in San Francisco, CA.
- Arnold, S.D., & De Vito, D. (2009, June). *Cell phone: A Web 2.0 life-line to Gab[cast] about science*. Paper presented at the 2nd annual Sloan-C International Symposium on Emerging Technology Applications for Online Learning in San Francisco, CA.

❖ *Colloquia*

- Arnold, S.D. (2011, September). *Electronic miscommunication in the 21st century*. Invited speaker at the Applied Foreign Languages Department, National Taipei College of Business, Taipei, Taiwan.

Arnold, S.D. (2011, September). *ESL in the digital age: A systems approach to teaching*. Invited speaker at the Applied Foreign Languages Department, National Taipei College of Business, Taipei, Taiwan.

Arnold, S.D. (2009, May). *Technology development for the higher-ed foreign languages professional*. Invited speaker at the English as a Foreign Language Department, Universidad Católica del Norte, Antofagasta, Chile.

❖ *Workshops*

Arnold, S.D. (2005). *Test Design Workshop*. Designed and taught a series of 3-day test design workshops for military and department of defense instructors. Soldier Support Institute, Training & Development Institute, Department of the Army, Ft. Jackson, SC

❖ *Refereed Conference Presentations*

Arnold, S.D. (2019, March). *Flipping the lecture: Students demonstrate learning with the Panopto video capture system*. Paper presented at the Society for Information Technology and Teacher Education (SITE) International Conference (March 2019), Las Vegas, NV.

Arnold, S.D. (2018, October). *E-Learning in PreK-3: Selecting and designing grade-level appropriate online tutorials*. Paper presented at the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (October, 2018), Las Vegas, NV.

Arnold, S.D. (2017, March). *E-Learning in PreK-3: What happens when Gen X designers create online tutorials for Gen Z learners?* Paper presented at the Society for Information Technology and Teacher Education International Conference (March 2017), Austin, TX.

Arnold, S.D. (2016, December). *Rethinking e-learning media: What happens when student Like meets professor Me?* Paper presented at the International Conference of Educational Technologies 2016: Melbourne, Australia.

Arnold, S.D. (2015, November). *The Yellowstone experience: Teaching and learning on a supervolcano*. Paper presented at the ICERI2015: 8th International Conference of Education, Research and Innovation, Seville, Spain.

Arnold, S.D. (2014, November). *Prosocial networking: Facilitating first generation undergraduate student success in the digital age*. Paper accepted for presentation at the ICERI2014: 7th International Conference of Education, Research and Innovation in Seville, Spain.

Arnold, S.D. (2013, July). *Flipping the lecture: Students go online with the Panopto video capture system*. Paper presented at the 5th International Conference on Education and New Learning Technologies, Barcelona, Spain.

Devito, D., & Arnold, S.D. (2013, June). *Media Preference in the 21st Century English Language Arts Classroom*. Paper accepted for presentation at the EdMedia 2013: World Conference on Educational Media and Technology in Victoria, Canada.

- Torres, D. & Arnold, S.D. (2013, April). *Technological innovation and measuring effectiveness in learning in a non-traditional setting*. Paper presented at the Southwest Teaching and Learning Conference in San Antonio, TX.
- Arnold, S.D. (2012, October). *Assessing online learning with digital audio and video*. Paper presented at the E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education: Montreal, Quebec.
- Arnold, S.D. (2012, October). *Assessing student learning online: Overcoming reliability issues*. Paper presented at the IADIS International Conference on Cognition and Exploratory Learning in Digital Age 2012 (CELDA 2012) Conference: Madrid, Spain.
- Arnold, S.D. (2012, July). *Podcasting: Students' standard-driven dialogue*. Two hands-on workshops presented via Adobe Connect to the Cochise Instructional Technology Conference, 2012: Sierra Vista, Arizona.
- Arnold, S.D. & Torres, D. (2012, July). *The effect of primary and secondary language literacy in online learning*. Paper presented at the International Association for Development of the Information Society e-Learning 2012 international conference in Lisbon, Portugal.
- Arnold, S.D. (2012, July). *Digital audio and video for online assessment*. Paper presented at the EDULearn12 4th International Conference on Education and New Learning Technologies in Barcelona, Spain.
- Arnold, S.D., & Torres, D. (2011, July). *The effect of literacy and second language in online learning*. Paper presented at the EDULearn11 3rd International Conference on Education and New Learning Technologies in Barcelona, Spain.
- Arnold, S.D. (2011, February). *Remember me, your electronic portfolio? Evaluating the progress over time vs. showcase of competencies pre-service teacher portfolio focus*. Scholarly research presented to the College of Education faculty at the Western Oregon University.
- Arnold, S.D. (2010, July). *Prosocial networking: Caring and sharing electronically to increase student engagement*. Paper presented at the 2nd Paris International Conference on Education, Economy & Society – 2010, in Paris, France.
- Arnold, S.D., & Moshchenko, M. (2010, July). *Computer mediated information transfer: Input versus input and output*. Paper presented at the 2nd Paris International Conference on Education, Economy & Society – 2010, in Paris, France.
- Arnold, S.D., & Moshchenko, M. (2010, March). *3 technology use modes: Students transcend from passive to active*. Paper presented at the International Technology, Education and Development Conference (INTED 2010) in Valencia, Spain.
- Arnold, S.D. (2010, March). *Student E-cooperative: Computer mediated group projects*. Paper presented at the International Technology, Education and Development Conference (INTED 2010) in Valencia, Spain.
- Arnold, S.D. (2009, November). *World wide workarounds: Empowering technophobic and glitch-prone computer users in the web 2.0, free and open source software digital frontier*. Paper presented at the International Conference of Education, Research and Innovation (ICERI 2009) in Madrid, Spain.

- Arnold, S.D., & De Vito, D. (2009, October). *Electronic portfolios in teacher education: Does sequence matter?* Poster presented at the 15th annual Sloan-C International Conference on Online Learning in Orlando, FL.
- Arnold, S.D. (2009, June). *Interactive television: Individual and group presentations from a distance.* Paper presented at the 27th international conference, International Council for Innovation in Higher Education in St. John's, Newfoundland, Canada.
- Arnold, S.D., & De Vito, D. (2009, April). *Electronic portfolios in teacher education: Does sequence matter?* Paper presented at the 5th annual international conference on Multimedia, Information, and Communication Technology in Education in Lisbon, Portugal.
- Arnold, S.D. (2009, April). *Instructional pathfinders: Using blogs & wikis to guide student learning.* Paper presented at the 5th annual international conference on Multimedia, Information, and Communication Technology in Education in Lisbon, Portugal.
- Arnold, S.D., & Moshchenko, M. (2009, March). *Technology input versus input and output: Does it result in learning differences among elementary school students?* Paper presented at the 20th annual Society for Information Technology and Teacher Education International Conference in Charleston, SC.
- Arnold, S.D. (2008, October). *E-cooperative: Effective development of group presentation projects from a distance.* Paper presented at the October, 2008 E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education in Las Vegas, Nevada.
- Arnold, S.D. (2008, November). *Prosocial networking: Using e-mail as an accountability tool to increase student engagement.* Poster presented at the 14th annual Sloan-C International Conference on Asynchronous Learning Networks, in Orlando, FL.
- Arnold, S.D. (2008, June). *Student interactive television presentations: Local vs. remote.* Paper presented at the 20th annual Ed-Media World Conference on Educational Multimedia, Hypermedia, & Telecommunications conference in Vienna, Austria.
- Swan, K., Schenker, J., Arnold, S., & Kuo, C. (2007, June). *Shaping online discussion: Assessment matters.* Paper presented at the 19th annual Ed-Media World Conference on Educational Multimedia, Hypermedia, & Telecommunications conference in Vancouver, Canada.
- Swan, K., Schenker, J., Arnold, S., & Kuo, C. (2007, April). *The effects of differing assessment strategies on the quality of online discussions.* Paper presented at the April, 2007 American Educational Research Association (AERA) conference in Chicago, IL.
- Swan, K., Schenker, J., Arnold, S., & Kuo, C., (2006, November). *The effects of differing assessment strategies on the quality of online discussions.* Poster presented at the 12th annual Sloan-C International Conference on Asynchronous Learning Networks, in Orlando, FL.

❖ *Environmental Science Presentations – Peer Reviewed*

- Arnold, S.D. (2019, May-Aug). *Mark of the Hoodoos*. Illustrated talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.
- Arnold, S.D. (2019, May-Aug). *Bryce Amphitheater Geology Talk*. Outdoor, audience-interactive talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.
- Arnold, S.D. (2019, May-Aug). *Bryce Amphitheater Rim Walk*. Outdoor, audience-interactive nature walk and talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.
- Arnold, S.D. (2019, May-Aug). *Rainbow Grand Staircase Geology Talk*. Outdoor, audience-interactive talk presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.
- Gates, J., Case, A., McGlasson, R., **Arnold, S.D.**, & Williams, D. (2019, May-Aug). *Telescope Field: Bryce Canyon Night Skies*. Outdoor, night sky tours, talks, and viewing presented weekly to Bryce Canyon National Park visitors. National Park Service, Department of Interior, Bryce, UT.
- Arnold, S.D. (2018, May-Aug). *The Grizzly Scene*. Illustrated talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.
- Arnold, S.D. (2018, May-Aug). *Native America Speaks*. Moderated weekly talks presented by Piegan Blackfeet (Ampskapi Piikani) to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.
- Arnold, S.D. (2018, May-Aug). *Goodbye to Glaciers*. Roadside talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.
- Arnold, S.D. (2018, May-Aug). *Scope It Out*. Logan Pass talk and guided wildlife viewing presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.
- Arnold, S.D. (2018, Aug). *Swiftcurrent Lake Stroll*. Nature walk and talk presented weekly to Glacier National Park visitors. National Park Service, Department of Interior, Saint Mary, MT.
- Arnold, S.D. (2017, May-Aug). *The Bear Essentials of Denali*. Illustrated talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.
- Arnold, S.D. (2017, May-Aug). *Bambi's Deer Cousins of Denali*. Interactive campground talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.
- Arnold, S.D., Raffaelli, J., Dittmar, J., Carpenter, J., Millman, J., & Verble, E. (2017, May-Aug). *Sled Dogs of Denali*. Interactive talk and demonstration presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.

- Arnold, S.D. (2017, May-Aug). *Trailology & Trail Sense: McKinley Station Nature Hike*. Nature walk and talk presented weekly to Denali National Park & Preserve visitors. National Park Service, Department of Interior, Denali, AK.
- Arnold, S.D. (2016, May-Aug). *The Bear Essentials of Yellowstone*. Illustrated talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Geysers Galore!* Old Faithful interactive geothermal talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Lone Star Geyser Adventure Hike*. Nature walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Experiencing Wildlife*. Outdoor interactive talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Yellowstone Kids*. Outdoor interactive talk and activities presented weekly to Yellowstone National Park early childhood-adolescent park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Geyser Hill Walk*. Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Centennial Stroll*. Upper geyser basin historical geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Black Sands Geyser Basin Walk*. Geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2016, May-Aug). *Geyser Discovery Stroll*. Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *The Bear Essentials of Yellowstone*. Illustrated talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Geysers Galore!* Old Faithful interactive geothermal talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Experiencing Wildlife*. Outdoor interactive talk and demonstration presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.

- Arnold, S.D. (2015, May-Aug). *Yellowstone Kids*. Outdoor interactive talk and activities presented weekly to Yellowstone National Park early childhood-adolescent park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Geyser Hill Walk*. Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Centennial Stroll*. Upper geyser basin historical geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Black Sands Geyser Basin Walk*. Geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2015, May-Aug). *Geyser Discovery Stroll*. Upper geyser basin geothermal walk and talk presented weekly to Yellowstone National Park visitors. National Park Service, Department of Interior, Old Faithful, WY.
- Arnold, S.D. (2014, May-Aug). *Deer Cousins of Grand Teton*. Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Bambi and His Deer Cousins of Grand Teton*. Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Celebrating Wilderness: 50th Anniversary of the Wilderness Act*. Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Teton Highlights*. Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Teton Topics*. Illustrated talk presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Bear Safety*. Interactive talk and demonstration presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Teton Kids*. Outdoor interactive talk and activities presented weekly to Grand Teton National Park early childhood-adolescent visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Smelly Bear*. Interactive talk and demonstration presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.
- Arnold, S.D. (2014, May-Aug). *Wildlife Watch*. Interactive talk and guided wildlife viewing presented weekly to Grand Teton National Park visitors. National Park Service, Department of Interior, Colter Bay, WY.

UNIVERSITY TEACHING EXPERIENCE

❖ University of Arizona

ETCV 301: Interpreting & Presenting Digitally (Gen Ed Tier II)
ETCV 310: Integrating Technology into the Curriculum
ETCV 411: Learning Technologies in the Digital Age
TEDV 300: Introduction to Education
TEDV 301: Foundations of Early Childhood Education
TEDV 311: Literacy in Elementary School
TEDV 326: Learning & Development
TEDV 332: Mathematics Instruction & Assessment
TEDV 394A: Field Studies I: Birth-Kindergarten
TEDV 411: Technology for Educators
TEDV 430: Assessment in Education
TEDV 493A: Student Teaching: Birth-Preschool
TEDV 498: Senior Capstone in Education
TEDV 498H: Honors Thesis

❖ Kent State University

ITEC 19525: Educational Technology

❖ University of Idaho

ITED 111: Computing Skills

CURRICULUM & INSTRUCTIONAL DESIGN

❖ New Courses Designed

ETCV 301: Interpreting and Presenting Digitally Gen Ed course (University of Arizona)
TEDV 411: Technology for Educators (University of Arizona)
TEDV 412: Technology in Early Childhood Environments (University of Arizona)
TEDV 430: Assessment in Education (University of Arizona)
TEDV 498H: Honors Thesis (University of Arizona)
TEDV 493E: Internship in Educational Support (University of Arizona)
BAS Early Childhood Education degree, multiple courses designed: TEDV 301: Foundations of ECE, TEDV 325: Assessment in EC, TEDV 473A: Teaching EC Math/Science, TEDV 473B: Teaching EC Social Studies/Language, TEDV 473C: Teaching EC Creative Arts/PE. (University of Arizona)

AZ Department of Education Middle School Endorsement: TEDV 429/529: Early Adolescent Learning & Development, TEDV 428/528: Middle School Curriculum & Instruction. (University of Arizona)

Designed a series of grade-band specific elementary (K-8) student teaching courses: TEDV 493A: Student Teaching: Birth-Preschool, TEDV 493B: Student Teaching: K-3, TEDV 493C: Student Teaching: 4th-8th, TEDV 493E: Internship in Educational Support. (University of Arizona)

Co-developed two Bachelor of Professional Studies cornerstone & capstone courses & submitted to the curriculum committee (regional campuses, Kent State University)

Designed/taught Test Writer's Workshop 24-hour certificate course for the Department of the Army (Ft. Jackson, SC)

❖ **Course Redesign**

Developed/redesigned the Field Studies course series TEDV 394A-C to be grade-band specific (University of Arizona)

Modified & resubmitted 8 Early Childhood Education courses (from Human Services [HUSV] to TEDV 370, 372-374, TEDV 381-383, 386) to be in alignment with the AZ state Department of Education's ECE endorsement/certification (University of Arizona)

Re-conceptualized and designed a block Elementary Methods structure bringing the 5 pre-student teaching courses, coursework, and practicum into alignment with the university credit-hour requirement, and integrated the curriculum - Math/Science: Block 1; Language Arts/Reading/Social Studies: Block 2 (University of Arizona)

Developed/taught an online Introduction to Education (TEDV 300) undergraduate course (University of Arizona)

Developed/taught an online and an interactive television (ITV) TEDV 326: Learning and Development course (University of Arizona)

Redesigned/taught the ETCV 411: Computer Application in the Classroom courses in a combination of face-to-face, hybrid, and online delivery (University of Arizona)

Redesigned/taught the Educational Technology core classes for the Instructional Technology Department (main & regional campuses, Kent State University)

❖ **New Academic Degree Design, Development, Review**

Bachelor of Science Elementary Education Degree (K-8) Non-certification alternative track: Primary designer - Fall 2011 (University of Arizona)

Bachelor of Applied Science (BAS) Early Childhood Education Degree: Primary designer and Curriculum Committee Chair reviewer - Spring 2011 (University of Arizona)

AZ Department of Education Middle School Endorsement: Primary designer and Curriculum Committee Chair reviewer - Spring 2011 (University of Arizona)

Bachelor of Applied Science (BAS) Intelligence Studies: Curriculum Committee Chair reviewer - Fall 2010 (University of Arizona)

Bachelor of Applied Science (BAS) Logistics: Curriculum Committee Chair reviewer - Fall 2010 (University of Arizona)

Educational Technology Graduate Certificate: Curriculum Committee reviewer - Spring 2010 (University of Arizona)

Secondary Education (undergraduate): Curriculum Committee reviewer - Fall 2009 (University of Arizona)

M.Ed. Special Education: Contributing faculty member and Curriculum Committee reviewer - Spring 2009 (University of Arizona)

Bachelor of Professional Studies: Contributing faculty member – Spring 2016. (Kent State University).

SERVICE/OUTREACH

❖ Departmental Committees/Obligations

2018-2007 Faculty advisor of Elementary/ECE undergraduate students
2018-2012 Elementary/ECE Search Committee Member
2016 Grade Appeal Committee Chair
2016-2014 Human Services Search Committee Member
2015 Grade Appeal Committee Member
2012-2010 Elementary/ECE Program Director
2010 Commerce Department Search Committee Chair
2010 Graduate Capstone Committee Member
2008 Elementary/ECE Search Committee Member

❖ University Committees

2018-2012 Promotion & Tenure 6-Year Review Committee Member
2016-2013 Curriculum Committee Member
2015 Promotion & Tenure Mid-Year Review Committee Member
2011-2010 Curriculum Committee Chair
2010-2009 Personnel Committee Member
2010-2007 Curriculum Committee Member
2010-2007 Student Scholarship Selection Committee Member
2009-2008 Technology Committee Member
2009 UA South Faculty Transformation Committee Member

❖ *National/International*

- 2019 National Park Service accessibility *video design and collaboration*, Zion and Bryce Canyon National Parks, UT
- 2018 E-Learn Conference *invited academic session chair*, Las Vegas, NV. Presentations: Effects of robotics technology professional development on middle level science & math teaching performance & student achievement (Windslow et al., Coastal Carolina University).
- 2017 Society for Information & Technology Education (SITE) conference *invited academic session chair*, Austin, TX. Presentations: Two sessions with five presentations that included Maker and various other digital technologies.
- 2016 International Conference of Educational Technologies *invited session chair*, Melbourne, Australia. Presentations: Curricular Evolution/Alternative Assessment Methods.
- 2012 Cognition and Exploratory Learning in a Digital Age (CELDA) conference, International Association for Development of the Information Society (IADIS), *invited academic session chair*, Madrid, Spain. Presentation: Technology, Learning, and Expertise.
- 2012 E-Learn World Conference on E-Learning in Corporate, Government, Healthcare, & Higher Education *invited session chair*, Montreal, Quebec. Sessions: Content Development, Instructional Design, Evaluation, Implementation Examples & Issues.
- 2012 International Association for Development of the Information Society e-Learning 2012 international conference *invited session moderator*, Lisbon, Portugal. Topics: Distance & Workplace Learning.
- 2011 Applied Foreign Languages Department, National Taipei College of Business *invited speaker*, Taipei, Taiwan. Presentation topics: Miscommunication in the 21st century, ESL in the digital age: A systems approach to teaching.
- 2009 Universidad Catolica Del Norte, Erika Mery grant funded *invited workshop presenter and lecturer*, Antofagasta, Chile. Topic: Web 2.0 and computer-based multimedia technologies.
- 2009 The V International Conference on Multimedia and ICT in Education (m-ICTE-2009) *invited session chair*, Universidade Nova de Lisboa, Lisbon, Portugal. Session: Development and Application of Web 2.0 Technologies for Educational Purposes.

GRANTS AND CONTRACTS

Arnold, S.D. (Primary Investigator). University, School, Youth - STEM Teaching & Learning Collaboration. National Science Foundation Research Grant proposal – CFDA 84.305A, focused on K-3rd grade STEM competency development via after-school digital technologies lab and university/PreK-12 partnership. \$1,700,000, Unfunded.

Arnold, S.D. (Primary Investigator). *Early Computer-Assisted Tutoring with Scaffolding*. U.S. Department of Education, Institute of Educational Sciences Research Grant proposal – CFDA 84.305A. Submitted September 19, 2012 to Grants.gov via UA Sponsored Projects Services, \$3,463,814. Unfunded.

Arnold, S.D. (Primary Investigator). Bachelor of Applied Science: Early Childhood Education. UA Office of Institutional Assessment, Online Education Project. Instructional design of six online courses per the Quality Matters Initiative approved for the 2012-2013 academic year. \$30,000.

HONORS/AWARDS

Yellowstone National Park (2016, Sep). Received the Special Thanks for Achievement (STAR) Award.