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EDUCATION

- Ph.D. University of Alaska Fairbanks** 2017. Cross-Cultural Education and Futures Studies - Interdisciplinary Program; Resilience and Adaptation Program Fellow; Thesis: *Compulsory Education and Resilience in Northern Alaska: The Role of Social Learning and Youth in Healthy Sustainable Communities*
- M.F.A. University of Alaska Fairbanks** 2010. Creative Writing; Thesis: *Analog Pop*
- M.A. (with Distinction) California State University - Northridge** 2005. Educational Leadership and Policy Studies. Thesis: *English Language Learner Mainstreaming: A Qualitative Action Research Project Examining How Students' Attitudes Affect Success*
- B.A. University of Southern California**, 1995, English/Creative Writing; *Honors*: Resident Honors/Thematic Option Program; Dean's Scholar; Semester Abroad at Charles University in Prague, Czech Republic

PROFESSIONAL EXPERIENCE

Leadership Roles for Alaska Education Highlights

- Chair **Secondary Program** 2019 - present
- Team Lead **Deans for Impact** - Learning by Scientific Design strategic School of Education improvement initiative, including coursework and clinical redesigns, 2020 - present
- Co-Principal Investigator **NSF, Robert Noyce Scholarship Program- Collaborative Research: Examining the Role of Compensation and Other Factors for Retention of Teachers in High-need Schools**, 2021- present; \$799,815
- Vice President **United Academics, 4996** Executive Board & UAF Representative, 2023 - present
- Fellow **Leadership for Education Equity's Public Leaders Fellowship (LEE LPLF)**- San Francisco, Memphis, Baltimore, New Orleans, 2016-17
- Principal Investigator **Northwest Arctic Borough Science Commission - Arctic Futures Makers Project**- Designed, coordinated, and facilitated two-day scenarios workshop with high school students from all ten villages of the Northwest Arctic Borough (NAB), Alaska. Instructor and course developer- PS 193 (Spring 2016) Introduction to Arctic Futures Studies, 2015-16, \$51,250
- Vice-President **Alaska Evaluation Network**, 2014-16

Associate Professor, University of Alaska Fairbanks- School of Education, 2017 Curriculum design, instruction, and evaluation for course delivery: graduate and undergraduate; live, asynchronous, in classroom and distance students.

- Supervise student teacher interns during fieldwork experience with mentors.
- Chair and committee participation for 8-10 M.Ed. graduate students per year.
- Fieldwork coordination, orientation, and supervisor training.
- Ongoing research agenda focused on teacher retention and mobility across Alaska, Arctic youth and sustainability, community resilience and social learning, and futures studies.
- Sustaining Indigenous and Local Knowledge, Arts, and Teaching (SILKAT) researcher
- United Academics Local 4996, AAUP/AFT- University of Alaska Fairbanks Vice-President 2023-present
- International Arctic Research Center, Collaborating Faculty
- IRB certificate 2024-2027

Primary Course Responsibilities

- EDSC 432/632 - English/Language Arts Secondary Instruction and Assessment
- EDSC 435/635 - Social Studies Secondary Instruction and Assessment
- EDSC 457/657- Multicultural Education and School-Community Relations
- EDSC 407- Developing Literacy in the Content Areas

Instructor of Record, University of Alaska Fairbanks School of Education, Spring 2014.

ED 601- Introduction to Applied Social Science Research Methods.

Intern, North Slope Borough School District, Fall 2012.

Reported to and collaborated with Superintendent Peggy Cowan for research (including interviews of teachers, administrators, students, and other stakeholders) and writing of report *Feasibility of Alternative School Programming in the North Slope Borough School District, case studies of Utqiagvik, Point Hope, and Point Lay.*

Teaching Assistant, University of Alaska-Fairbanks, 2007-2009.

Instructor of record: ENGL 111x (2 semesters) and ENGL 213x (2 semesters).

Other positions held:

- Tutoring students, undergraduate through doctoral, from all disciplines in the Writing Center and at Rural Student Services.
- Poetry Editor for English Department's literary journal *Permafrost*.
- Guest Editor for the Spring 2010 issue of *The Northern Review*.

Literacy and Leadership Coach, University of California, Los Angeles, 2002-2005.

Collaborated with teachers to develop curriculum and effective instructional approaches in literacy across all disciplines. Coached teachers through dialogue, observation, co-teaching, and model teaching of literacy and writing strategies to improve student achievement. Supported the development of school-wide literacy plans by administrators and teachers. Coordinated individual teacher and school-wide professional development plans. Co-lead on development and implementation of the Western Association of Schools and Colleges report for accreditation. Facilitated Professional Development, Professional Learning Communities, and Literacy Cadre Meetings. Professional

Development and Advanced Training in *Cognitive Coaching* and Institute for Learning's *Habits of Mind*.

English/Drama Teacher, El Segundo High School, El Segundo, California, 1999-2002.

Taught English/ Language Arts to 10th and 12th grade students. Taught Drama to students, 9-12. Directed and produced the fall and spring theater productions. Served on the leadership team that implemented data review and improvement based on the development of the Western Association of Schools and Colleges (WASC) report for accreditation.

Visiting Professor and Drama Director, Hacettepe University, Ankara, Turkey, 1998-1999, Fulbright Scholarship.

Instructor for courses: American Cultural Concepts, Academic Research and Writing, and Public Speaking in the American Culture and Literature Department. Directed and produced the department's annual theater production, *Rumors* by Neil Simon. Researched works and lives of Turkish authors and poets.

English Teacher/ English Department Chair, Whaley Middle School, Compton, California, 1996-1998.

Taught English/ Language Arts to sixth, seventh, and eighth grade students. Headed school wide PSAT tutoring program to prepare students for college entrance exams. Coached the Whaley Warriors boys baseball team. Other duties included fund-raising and grant writing.

PROFESSIONAL DEVELOPMENT

Participant **Digital Inquiry Group-Stanford** summer professional development institute- Introduction to Reading like a Historian Curriculum and Beyond the Bubble Assessments, virtual, 2022

Participant **Digital Inquiry Group-Stanford** summer professional development institute, virtual (COVID), 2020

Participant **Teaching Works 2020 Virtual Summer Institute**, University of Michigan, virtual (COVID), 2020

Participant **Digital Pedagogy Lab 2020**, University of Colorado, virtual (COVID), 2020

Participant **Quality Matters Improve your Online Course professional development**, virtual (COVID), 2020

Participant **Council for the Accreditation of Educator Preparation Conference (CAEPCon)**, New Orleans, 2020

Participant **Cognitive Coaching Advanced Training**, Denver, 2019

Participant **UAF eCampus, iTeach online summer course**, 2018

Participant **Mindful Leadership: Creating a diverse and inclusive UA**, 2018

Participant **Alaska Teacher Educator Forum, Sustaining Indigenous Knowledge, Arts and Teaching (SILKAT) grant**, Anchorage, 2018

Presenter "Men and Community Resilience in the Arctic," **Workshop on Climate Change Adaptation and Gender**, Tromsø, Norway, 2013

Participant Professional Development Institute (ASCD) - **Improving High-Poverty Schools, Rigor, and Closing Achievement Gaps**, Denver, 2012

FUNDED RESEARCH

Researcher, Co-PI **National Science Foundation, Robert Noyce Scholarship Program-Collaborative Research: Examining the Role of Compensation and Other Factors for Retention of Teachers in High-need Schools, 2021-2024; \$799,815.** Analyze STEM teacher retention and compensation data across the state of Alaska to understand patterns of teacher decision-making around recruitment, retention, mobility, and job satisfaction.

Researcher **Margaret A. Cargill Philanthropies, Sustaining Indigenous Local Knowledge, Arts and Teaching (SILKAT), 2020-2024; \$6,000,000.** Address the broad issue of Alaskan teacher recruitment and retention by supporting the recruitment of local teachers and providing preservice and early career teachers with training in teaching through arts and culture.

Researcher **National Science Foundation – Winterberry: Public Participation in Scientific Research, 2017-2021; \$878,592.** Facilitate youth scenarios storytelling workshops about berries, harvest, citizen research, and change in the Arctic. Train project leaders and staff in the delivery of similar workshops.

Research Assistant **National Science Foundation - The Northern Alaska Scenarios Project (NASP): Envisioning Futures and Strategizing Pathways for Sustainable Healthy Communities, 2013-2017; \$954,290.** Participated in writing the grant and have been engaged as an RA during its entirety. Responsible for facilitation and coordination of the school districts of Northwest Arctic Borough and North Slope Borough for participation of students, teachers, and administrators in scenarios workshops and follow-up meetings.

Principal Investigator **Northwest Arctic Borough Science Commission - Arctic Futures Makers Project, 2015-2016; \$51,250.** Designed, coordinated, and facilitated two-day scenarios workshop with high school students from all ten villages of the Northwest Arctic Borough (NAB), Alaska. Instructor and course developer- PS 193 (Spring 2016) Introduction to Arctic Futures Studies.

PROFESSIONAL CREDENTIALS

- **Cognitive Coaching Advanced Training, 2019**
- **Alaska Type B Administrative Certificate, 2017**
- **Certificate in Foresight, January 2015, University of Houston**
- **Alaska Professional Teacher Certificate, 2013, English, Grade 5-12**
- **California Certificate of Eligibility Administrative Services Credential, 2005**
- **California Professional Clear Single Subject Teaching Credential - English**
University of California, Los Angeles and California State University-Dominguez Hills, 2002, Writing and Cross-Cultural, Language, and Academic Development emphasis

PROFESSIONAL MEMBERSHIPS

Alaska Evaluation Network
American Educational Research Association
American Association of Colleges of Teachers Education
Association of Writers and Writing Programs
Association for Supervision and Curriculum Development
National Council for the Social Studies
National Council of Teachers of English
National Education Association
National Writing Project
Native American and Indigenous Studies Association

BOARD MEMBERSHIPS

Fairbanks Youth Soccer Association (FYSA) Board, Board Member 2018-present, Vice-president 2022-present
United Academics Local 4996, AAUP/AFT- Vice President for UAF 2023-present

FELLOWSHIPS

Leadership for Educational Equity Public Leaders Fellowship 2016-2017
National Science Foundation - Resilience and Adaptation Program Fellowship University of Alaska Fairbanks, 2010-2012
TUNDRA Graduate Fellowship University of Tromsø, Norway, Spring 2011
Thesis Completion Fellowship University of Alaska Fairbanks, Spring 2010
Writing Project Fellowship University of California, Los Angeles, Summer 2002
Fulbright Scholar Fellowship Hacettepe University, Ankara, Turkey, 1998-1999
Teach for America Fellowship/AmeriCorps Scholarship, Los Angeles, 1996-1998

WORKSHOP FACILITATION

Facilitator **“How Culturally Relevant Connects Us”** Fairbanks North Star Borough School District Fall Professional Development Conference, Fairbanks, Alaska, 2019
Facilitator **“Scenarios Workshop: Enhancing the saliency of climate services for marine mobility sectors in European Arctic Seas”** Danish Meteorological Institute, Copenhagen, Denmark, 2018
Facilitator **“Arctic Youth Ambassadors Scenarios Development Workshop”** Institute of the North’s North x North Conference, Anchorage, Alaska, 2018
Facilitator **“Arctic Futures 2050 Scenarios Workshop: Plausible Futures Co-produced by Scientists and Policymakers”** Study of Environmental Arctic Change (SEARCH), Seattle, Washington, 2018
Facilitator, **Scenarios development workshop at Watershed Charter School**, Fairbanks, Alaska, 2018
Facilitator, **Arctic Futures Makers: Scenarios development workshop with Northwest Arctic Borough youth,** research presentation, and discussion, Kotzebue, Alaska, 2016-18
Facilitator, **“Institute of the North’s Week of the Arctic- Emerging Leaders Dialogue”** Nome, Kotzebue, and Utqiagvik, Alaska, 2014

REFEREED JOURNAL ARTICLES

2021 (peer review) Spellman, K.V., D.S. Cost, and C.P. Villano (2021). Connecting community and

- citizen science to stewardship action through scenarios storytelling. *Frontiers in Ecology and Evolutions*. <https://doi.org/10.3389/fevo.2021.695534>
- 2020** (peer review) Cost, D.S. and A.L. Lovecraft (2020). Scenarios Development with Alaska's Arctic Indigenous Youth: Perceptions of Healthy Sustainable Futures in the Northwest Arctic Borough. *Polar Geography*, 1-24. <https://doi.org/10.1080/1088937X.2020.1755906>
- 2019** (peer review) Nilsson, A.E., M. Carson, D.S. Cost, B.C. Forbes, R. Haavisto, A. Karlsdottir, J.N. Larsen, Ø. Paasche, S. Sarkki, S.V. Larsen, A. Pelyasov. (2019). Towards improved participatory scenario methodologies in the Arctic. *Polar Geography*, 1-15. <https://dx.doi.org/10.1080/1088937X.2019.1648583>
- 2019** (peer review) Spellman, K.V., J.D. Shaw, C.P. Villano, C.P.H. Mulder, E.B. Sparrow, D. Cost. Citizen science across ages, cultures, and learning environments: Alaska Arctic harvest-public participation in scientific research. *Rural Connections*. May 2019.
- 2015** (peer review) Cost, D. 2015 "The Role of Public Education in Governance for Resilience in a Rapidly Changing Arctic." *Ecology and Society* 20(3):29, <http://dx.doi.org/10.5751/ES-07757-200329>

BOOK CHAPTERS

- 2023** (editorial team review) Alexander, E., D.S. Cost, and D. B. Hirshberg (2023) Adaptation isn't just for the tundra: Rethinking schooling in Alaska's Arctic. *Education, Equity, and Inclusion: Teaching and Learning for a Sustainable North*, UArctic Press.
- 2019** (editorial team review) Lovecraft, A.L. and D.S. Cost (2019) "Policy Paradoxes: Challenges Confronting the Contemporary Arctic" in Nord, D. Ed. *Leadership for the North: The Influence and Impact of Arctic Council Chairs*. Springer International Publishing.
- 2019** (peer review) Hirshberg, D. B., Harvey, H., Cost, D. & Ohle, K. (2019). Mind the Gap...Mind the Chasm: Exploring Inclusion and Equity in Alaska's Education System. In *Including the North: A comparative study of the policies on inclusion and equity in the Circumpolar North*. Rovaniemi, FI: Lapland University Press.

ABSTRACTS & REPORTS

- 2019 Abstract** Spellman, K., Cost, D., Stanley, S., Villano, C. P., Shaw, J. D., Sparrow, E. B., Mulder, C. P. H. & Buffington, C. (2019). Does storytelling make a difference for inclusion and learning in an intergenerational Public Participation in Scientific Research project? *AGUFM, 2019*, U32A-04.
- 2017 Report** Contributing author. Lead authors B. Preston and A.L. Lovecraft, Arctic Council, Arctic Monitoring and Assessment Program, *Adaptation Actions in a Changing Arctic* (AACA), regional (Bering/Beaufort/Chukchi) report, Chapter 8, "Scenarios."
- 2017 Report** Northern Alaska Scenarios Project: Creating Healthy Sustainable Communities in Arctic Alaska. A.L. Lovecraft, N. Fresco, D. Cost. (84p, research results for community members and participants from NSF grant).
- 2012 Report to North Slope Borough School District** "Feasibility of Alternative School Programing in Utqiagvik, Point Hope, and Point Lay." (2017 revised as "Designing Schools for Student Success: Alternative School Programing in Utqiagvik, Point Hope, and Point Lay").

ARTICLE & PROPOSAL EVALUATIONS

- 2024 ARCTIC** journal article review on youth attitudes on climate change in Alaska and Northern Canada.
- 2024 Futures** journal article review on participatory scenarios workshop in St. Paul Island, Alaska.
- 2021 National Science Foundation's Arctic Social Sciences Program** - review and evaluation of multiple proposals for funding and research.
- 2021 Education, Equity and Inclusion: Teaching and Learning for a Sustainable North**, UArctic - book review chapter on Greenlandic education.
- 2020 ARCTIC** journal article review on scenarios development, futures, and the Russian Arctic.
- 2018 Cities and the Environment from the Center of Urban Resilience** journal article review on resilience and pedagogy.
- 2017 French National Research Agency** funding proposal review of InterArctic research proposal for Greenlandic-based project on human-environment interactions.

SIGNIFICANT CONFERENCE ACTIVITIES

- Participant American Association of University Professors (AAUP) Conference and Biennial Meeting, Washington D.C., 2024
- Participant Association of Teacher Educators (ATE) Annual Meeting, Anaheim, 2024.
- Participant South by Southwest Education Conference (SXSW EDU), Austin, 2024.
- Participant Learning by Scientific Design Network Convening, Ft. Worth, 2023
- Participant American Association of Colleges for Teacher Education's (AACTE) 74th Meeting, Indianapolis, 2023
- Participant Learning by Scientific Design Network Convening. St. Louis, 2022
- Participant Deeper Learning Conference (9th), San Diego, 2022
- Participant American Association of Colleges for Teacher Education's (AACTE) 74th Meeting, New Orleans, 2022
- Presenter "Adaptation isn't just for the tundra: Rethinking schooling in Alaska's Arctic." and "Moving from citizen science to stewardship action through scenarios storytelling in Alaska and the Arctic." ICASS X (2021) Arkhangelsk, Russia, virtual (COVID) June 2021
- Presenter & Discussant Session title: Teaching and Learning for a Sustainable North: examining structural, geographical, linguistic and cultural challenges, UArctic Congress 2021, virtual (COVID) 2021
- Participant & Discussant "Adaptation isn't just for the tundra: Rethinking schooling in Alaska's Arctic." Arctic Science Summit Week, virtual (COVID) 2021
- Presenter "Imagine citizen science with a pathway from data to action." American Geophysical Union Fall Meeting, virtual (COVID) 2020
- Presenter "How are Your Berries and What Can We Do to Build Our Best Berry Future? Winterberry Citizen Science." *Alaska Forum for the Environment*, Anchorage, 2019
- Participant *American Association of Colleges of Teacher Education Annual Meeting*, Louisville, 2019
- Participant *Association of Teacher Educators Annual Meeting*, Las Vegas, 2018
- Presenter "Alaska report on scenarios development workshops with youth from across the state." Arctic Youth and Sustainable Futures Author Workshop, Stockholm, Sweden, 2018
- Presenter "Use of Scenario Development Workshops in Arctic Alaska." *Arctic Indicators and Scenarios Workshop*, Stockholm, Sweden, 2017

Presenter “Arctic Futures Makers.” *International Arctic Social Sciences Conference 9*, Umeå, Sweden, 2017

Presenter “Arctic Futures Makers.” *Arctic Science Summit Week*, Prague, Czech Republic, 2017

Presenter *Arctic Youth and Future Sustainability*, Copenhagen, Denmark, 2016

Participant *Arctic Science Summit Week (ASSW) and Arctic Observing Summit*, Fairbanks, 2016

Presenter “Northern Alaska Scenarios Project,” *Alaska Forum on the Environment*, Anchorage, 2016

Presenter “The Changing Practices of Education in Arctic Alaska: How Scenarios Development Can Lead to More Resilient Young People.” *Change and Continuation in the Arctic*, Aalborg, Denmark, 2015

Participant and Ambassador to Icelandic Delegation *Arctic Energy Summit*, Fairbanks, 2015

Participant *Alaska Native Studies Conference*, Fairbanks, 2015

Presenter “Developing Scenarios at the Community Level with Emerging Leaders: Youth and Futures of Arctic Alaska,” *Arctic-FROST Conference*, Anchorage, 2014

Presenter “The Role of Public Education in Governance for Resilience in a Rapidly Changing Arctic” and “Deliberative Democracy and Scenarios Planning for the Future in Arctic Communities,” *International Congress of Arctic Social Sciences (ICASS) 8*, Prince George, British Columbia, Canada, 2014

Presenter “The Role of Public Education in Governance for Resilience in a Rapidly Changing Arctic,” *Resilience 2014*, Montpellier, France 2014

Participant *Arctic Encounters Symposium*, Seattle, 2014

Presenter “Feasibility Study of Alternative School Programming for Village Schools,” *Alaska Native Studies Conference*, Anchorage, 2013

Presenter and Roundtable Participant “Indigenous Studies in Alaska: Interdisciplinary Initiatives in Research, Service and Pedagogy,” *Native American and Indigenous Studies 2013 Annual Meeting*, Saskatoon, Saskatchewan, Canada, 2013

Participant *Inuit Studies Conference*, Washington D.C., 2012

Participant *American Educational Research Association Annual Meeting*, Vancouver 2012, Chicago 2015

Participant International Indigenous Education Conference, *Hands Back, Hands Forward: Sharing Indigenous Intellectual Traditions*, Vancouver, 2012

Participant *International Arctic Social Sciences Conference (ICASS) 7*, Akureyri, Iceland, 2011

Participant *Arctic Frontiers Conference*, Tromsø, Norway, 2011

Presenter *University of the Arctic Rectors and Student Forums*, Inari, Finland and Kautokeino, Norway 2011

Participant *State of the Arctic Conference*, Miami, 2010

Participant *Association for Supervision and Curriculum Development Annual Conference*, San Francisco 2003, New Orleans 2004, Los Angeles 2014

Participant Walloon Institute, Lake Geneva, Wisconsin, 2003

Presenter “Crossings in Literature and in Life- Literacy Strategies for English and History Classrooms,” *27th Annual Chancellor’s Conference on Composition & Literature at the University of California*, Los Angeles, California, 2002