

Anne U. Gold (Reuther)

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Cooperative Institute for Research in Environmental Science (CIRES)
Education and Outreach Program
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EMPLOYMENT HISTORY

since 2024	Director CIRES Center for Education, Engagement and Evaluation (CEEE) Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
since 2023	Affiliate Faculty Member, School of Education University of Colorado Boulder, CO
since 2019	Senior Associate Scientist Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
since 2017	Director Education & Outreach Program Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
2010-2019	Associate Scientist III, Education & Outreach Program Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
2007–2009	Division Director German Alpine Association, Munich, Germany
2005–2007	Postdoctoral Research Fellow Department of Earth Sciences, Dalhousie University Halifax, Canada
2002–2005	Research Assistant University of Regensburg, Department of Geography, Germany
2002–2003	Lecturer and Research Assistant University of Regensburg, Department of Geography, Germany

ACADEMIC EDUCATION

Doctorate - Physical Geography University Regensburg, Germany; co-advised with faculty from Eidgenössisch Technische Hochschule, Zürich, Switzerland; Department of Earth Sciences, Halifax, Canada Thesis title: Surface exposure dating of glacial deposits from the last glacial cycle. Evidence from the Eastern Alps, Bavarian Forest, Southern Carpathians and Altai Mountains. (in English, <i>summa cum laude</i>)	2002- 2005
Master of Science- Geographical Information Science & Systems (GIS) Paris-Lodron University of Salzburg, Austria Thesis title: Constraining glacial equilibrium line altitudes (ELA) by different geometrical approaches by applying a Geographic Information System (GIS). A case study from the Kleinen Arbersee glacier, Bavarian Forest, Germany. (in English)	2002-2004
Diploma (German Master equivalent) - Physical Geography University of Regensburg, Germany; University of Colorado (Fulbright scholarship); University of Svalbard, Norway Thesis title: Sustainable Mountaineering - Evaluation and Optimising of a pilot project on sustainable mountaineering in the German Alps. (in German, <i>with honors</i>)	1996-2001

EXPERTISE

Direction and Management

Leadership of CIRES Center for Education, Engagement and Evaluation (formerly Education & Outreach Program) (since 2017): Strategic Planning: development and implementation of program vision, strategy and culture and goals, including a strong focus on and commitment to Diversity, Equity and Inclusion; strategic development of program infrastructure and culture towards team-orientation, collaboration and productivity; facilitation of identification and move into new office facility; facilitation of transition into a center structure; Personnel management: 27 team members plus undergraduate and graduate students and consultants; 18 direct reports; hiring, supervision, performance management and mentoring, management of transition from in-person to fully remote and then hybrid work mode; Fiscal management: budget management for entire sponsored project portfolio; securing of funding for group (see below), donations; salary allocation, planning and projections; asset management.

German Alpine Association (2007-09): development of new program infrastructure, leadership of diverse team of 10 including hire, performance and fiscal oversight and budget management; oversight of 500+ consultants. management training and coaching.

Funding

Successful development and management of dozens of sponsored projects from federal funding agencies (NSF, NOAA, NASA) and non-federal funders with a high success rate of proposal funding (~\$18.5 Mio; see details below); management and oversight of program management; visionary guidance for projects; extensive experience in management of awards and subawards, contracts and donations; experience in reporting.

National Leadership in Geoscience and Climate Education

Lead convener and chair of dozens of education sessions at national conferences; Lead author on the ICON AGU effort on vision publication around Geoscience Practice (Fortner et al., 2022); Officer of National Association of Geoscience Teachers (NAGT) of the Geoscience Education Research Division (2016-19); advisory board member on dozens of projects; proposal and publication reviewer; guest editor Journal of Geoscience Education (2020-21) and associate editor National Earth Science Teacher Association (NESTA)'s publication The Earth Scientist (2017-18).

Expert and Partner in Climate Education

Original team member and now Principal Investigator of NSF/NOAA/DOE funded, award-winning Climate Literacy Network (CLEAN), the national backbone organization for climate education portal with over 78,000 session/month and co-chair of vibrant community network of 800+ member; co-organizer of climate literacy session block at AGU and community workshop since 2016; national climate literacy collective impact coordination.

Curriculum Development & Teacher Training

Principal Investigator on multiple projects that translate science in educational resources using research-backed pedagogy; data-driven curriculum; co-development of Data Puzzles; translation of cutting-edge science in educational opportunities; delivery of face-to-face workshops; online and distance courses; two Coursera-Massive Open Online Courses (MOOC).

Program and Project Evaluation

Principal Investigator on multiple projects; Formative and summative program, project and workshop evaluation, Webpage evaluation and usability studies; Social network analysis. Authoring multiple evaluation report chapters and book chapter; development of evaluation tool database in partnership with CU's Research and Innovation Office; delivery of evaluation workshops.

Student and Community Engagement

Principal Investigator for secondary school students, including mentoring by graduate and undergraduate students; Principal Investigator on award-winning project around natural hazard and resilience engagement through scenario-based role-play games, mentor training; Principal Investigator on informal learning programs, traveling library exhibit and programming around water topics in Desert Southwest.

Research Experience for Undergraduate Students

Principal investigator of program since 2014 that connects community college students with researchers; training for students to becoming scientists; mentor coaching; diversity commitment. Various publications and national leadership to advance the field of undergraduate research.

Polar Science Education

Co-Investigator of Coordination Office for US-wide for 24 NSF funded research groups around the international MOSAiC research expedition, focus education and outreach; Co-investigator of community office for NSF Navigating the New Arctic Program (124 awards) – office lead for education and outreach; Principal investigator of Polar Science Early Career Community Office; theme editor on special issue of Journal of Geoscience Education on Polar Education.

Education Research

Principal Investigator on multiple projects. Content focus: Spatial thinking research, effectiveness of teaching climate topics, development of mental models; assessment techniques; learning nature of science; impact of cognitive and emotional engagement on learning, place-based learning approaches, undergraduate research experiences, eye-tracking (see publications).

Science

Climate Science: Paleoclimatology, Quaternary Geology and Geomorphology, landscape evolution – Regional Focus: European Alps, German low elevation mountains, Romania, Russian Altai, Argentina, Chile, Maritime Canada.

Geographic Information Systems

Cosmogenic Nuclide Dating Techniques (¹⁰Be, ²⁶Al, ³⁶Cl), technique development.

PUBLICATIONS / CONFERENCE CONTRIBUTIONS

Scientific Publications **h-index: 23; i10-index: 28** ([Google Scholar](#)); ORCID: 0000-0002-5309-0762

- 51 peer-reviewed publications; 65 total publications
- Altimetric - publications with high impact (180, top 5% of research outputs, policy implications)
- 1 book (4 peer-reviews), Proceedings of the Bavarian Academy of Sciences
- Contributions to international conferences and workshops (>100 oral presentations; >50 poster presentations)
- Articles and contributions for newspapers and non-scientific journals, radio interviews and press coverage of some articles (including EOS articles).

FUNDING (*in leadership role at CIRES*)

Total funding secured through external grants while at CIRES in a leadership role ~\$18,5 Mio.

Funding source	Proposal	Role	Budget
NSF, 2024	Girls* on Rock (recommended for funding)	Co-PI	\$387,200
NSF, 2023	FieldSafe	PI	\$834,260
CU Boulder	SEED Grant: Teaching Climate Across the Curriculum	PI	\$100,000
Ten Strands, 2022	Climate Collaborative	Co-lead	\$10,000
NOAA, 2022	Resilient Colorado, HEART Force II	PI	\$500,000
NOAA, 2022	CLEAN Core 2022	PI	\$301,027
UCAR, 2022	Innovator Program	PI, contract	\$114,100
NSF, 2022	REU (Jahn)	Education	\$13,341
NSF, 2022	Environmental Data Science Innovation and Inclusion Lab (ESiIL)	Evaluation lead	\$750,701

Curriculum Vitae –Anne U. Gold (Reuther)

Funding source	Proposal	Role	Budget
NSF, 2021	Polar Science Early Career Community Office	PI	\$847,237
NSF, 2021	Navigating the New Arctic Community Office	Co-PI	\$4,972,677
NOAA, 2021	Western Water Assessment Evaluation	Evaluation lead	\$38,320
NSF, 2021	REU (Musselmann)	Education	\$29,810
NOAA, 2021	CLEAN Core	PI	\$298,887
CU, 2021	Outreach Award, Data Puzzles	Co-PI	\$24,000
HHMI, 2021	Inclusive Excellence	PI, contract	\$20,000
NSF, 2020	ELOKA Evaluation	Evaluation	\$62,903
NOAA, 2020	CLEAN Core	PI	\$262,261
NSF, 2020	CAREER (Sepúlveda)	Education lead	\$61,382
NSF, 2020	CAREER (Kopf)	Education lead	\$58,599
NSF, 2020	McMurdo Outreach	Education lead	\$43,737
NSF, 2020	Bridges to Geoscience	Contract	\$15,000
NSF, 2020	IUSE Geopath – Puerto Rico	Co-PI	\$348,536
NSF, 2020	IUSE – PolarPASS	Co-PI	\$200,366
NSF, 2020	REU REALM evaluation	Evaluation lead transfer	\$39,000
NSF, 2020	REU 5-year renewal	PI	\$709,427
NSF, 2020	REU-LASP evaluation	Evaluation lead transfer	\$50,000
NOAA, 2019	WWA evaluation	Evaluation lead	\$30,000
NASA, 2019	Fire Fuel GLOBE	PI transfer	\$65,322
CIRES, 2019	Innovative Research Proposal	Co-PI	\$25,000
NSF, 2019	HDR-Data Revolution	Evaluation lead	\$30,000
NOAA, 2019	CLEAN Core	PI	\$242,261
NSF, 2019	IUSE Bridges to Geoscience	CU lead	\$70,500
NSF, 2019	REU supplement	PI	\$9,000
NSF, 2019	AISL – Water in the Western US	PI	\$2,468,432
NSF, 2019	Field Safety Workshop proposal	Co-PI	\$14,712
NSF, 2019	MOSAiC Coordination Office	Co-PI	\$993,966
NOAA, 2019	Environmental Literacy Grant	PI	\$500,000
NASA, 2019	CLEAN Elementary	PI	\$30,000
CU, 2018	Science Communication & Improv	Co-PI	\$7,000
CU, 2018	Curriculum Action-Oriented Climate Change Education	Co-PI	\$24,000
NSF, 2018	ITEST supplement Puerto Rico	PI	\$62,995
NSF, 2018	MOSAiC (Blomquist)	Education Lead	\$101,866
REI, 2018	Girls on Rock	PI (acting)	\$37,650
NSF, 2018	REU-RECCS (renewal grant)	PI	\$416,325

Curriculum Vitae –Anne U. Gold (Reuther)

Funding source	Proposal	Role	Budget
CU, 2017	Chancellor’s Award - Spatial Thinking	PI	\$8,900
CU, 2017	Outreach Award – LOCC extension	PI	\$9,000
NOAA, 2017	CLEAN Core	PI	\$501,951
Novim, 2016	UC Berkeley- Improving Pre-College Teaching of Climate Change	PI	\$21,826
CU, 2016	Community Impact Proposal	PI	\$8,000
NSF, 2016	ITEST supplement	PI	\$8,105
NSF, 2016	CAREER (Lundquist)	Education Lead	\$120,004
NSF, 2016	CAREER (Kay)	Education Lead	\$214,664
Germany, 2015	Scholarship: Research Stay for University Academics and Scientists (2015/2016)	Awardee	3 months salary + benefits
NSF, 2015	REU – RECCS	Co-PI	\$353,356
NSF, 2015	ITEST-Lens on Climate Change	PI	\$1,094,533
NSF, 2014	Arctic Flux tower (Grachev)	Education Lead	\$24,800
CU, 2014	Outreach Award – Tribe’s Eye	PI	\$8,000
CU, 2014	Chancellor’s Award – Spatial Thinking	PI	\$10,000
CU, 2013	Outreach Office – Webinars	PI	\$7,000
CU, 2013	Outreach Award – Lens on Climate Change	PI	\$13,625

SYNERGISTIC ACTIVITIES

- Host for NOAA’s Environmental Literacy Program Principal Investigator Meeting in 2023
- ICON Geoscience Education Practice Writing Leads effort led by AGU (2021/2022)
- Theme Issue Editor: Journal of Geoscience Education Theme: Polar Education (2020-2021)
- Climate Literacy and Energy Awareness Network Co-Chair (since 2017)
- Coordination Committee NSF ITEST PI Meeting 2018
- American Geophysical Union (AGU) session convener 2022, 2020, 2019, 2018, 2014, 2013, 2012, 2011, 2010 climate literacy and polar science townhalls, climate literacy workshops each year since 2017 and climate career panel.
- Geoscience Education Research NSF-funded Community Planning Workshop member (2017)
- National Association for Geoscience Teachers (NAGT) – Officer Geoscience Education Research Division (2016-19)
- Geological Society of America (GSA) session convener 2018, 2017, 2016, 2014, 2013
- Workshops for National Association of Geoscience Teachers (NAGT) at Geological Society of America meeting (2013), and American Geophysical Union meeting (2013)
- Presentations in K-12 classrooms, for teachers and informal educators focused on climate science
- Reviewer for international scientific and educational journals (~4-6/year); Reviewer for grant proposals (~2-3/year); NSF review panelist

ACADEMIC TEACHING / ADVISING STUDENTS

TEACHING CERTIFICATION

2005 – Certificate for teaching at university level issued by the state of Bavaria, Germany

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TEACHING (COLLEGE LEVEL)

- Introductory courses (Geomorphology, Introduction to Physical Geography, Aerial Image Interpretation)
- Advanced courses (Snowhydrology, Physical Geography of Svalbard)
- Field trips and field schools (Avalanche Protection, Svalbard, Altai Mountains)

OTHER TEACHING

- Massive Open Online Course (MOOC):
 - Water in the Western United States (Coursera Platform – On-demand course format: 2,377 students currently enrolled (Jan 2023), April 2015: 5300 students; Canvas Platform – June 2014: 500 students)
 - Frozen in the Ice: Exploring the Arctic (Coursera Platform – On-demand course format: 3,008 students currently enrolled (Jan 2023))
- Teacher professional development workshops, presentations, seminars (virtual and face-to-face), ongoing

ADVISING

Diploma students committee member (German equivalent of Master degree) - 4 students: 2015, Geoscience Education, A. Rothmaier (2016); Geography, T. Kuhnt (2007); Physical Geography, K. Förster (2005); C. Geiger (2004).

PhD students committee member –3 students: Stephanie Courtney, Geosciences Department, University of Auburn (ongoing); Kelsey Tayne, School of Education, University of Colorado (graduation 2018); Ariel Morrison, Department of Atmospheric and Oceanic Sciences, University of Colorado (graduated 2018).

MSc student co-advisor – 1 student: 2021 Lianna Nixon, School of Education, University of Colorado.

SCHOLARSHIPS / AWARDS

2023	Governor’s Award for High Impact Research Award, Pathfinding Partnership– We are Water Research Program
2023	University of Colorado, CIRES Bronze Medal for Meritorious Service in Science– Award for Extraordinary Contributions to the year-long MOSAiC polar research expedition
2022	Colorado Association for Environmental Education – Award for Excellence in Environmental Education Program Award for HEART Force Program
2021-2022	University of Colorado President’s Diversity Equity and Inclusion Award – CIRES Education & Outreach Program, Honorable Mention
2021	University of Colorado - Outreach Award – \$24,000 Data Puzzles, Inquiry-based Earth science data curriculum model
2018	Goldin Foundation for Excellence in Education – Exemplary project award for CLEAN Network and CLEAN Collection (\$7,500).
2018	University of Colorado - Outreach Award – \$24,000 Climate Action Oriented Climate Education Curriculum
2017	Friends of the Planet Award by National Center for Science Education (NCSE) for CLEAN Network and CLEAN Collection.
2017	University of Colorado – Chancellor’s Award for Excellence in STEM Education – \$8.900 for Spatial reasoning research program with Department of Geological Sciences, CU Boulder
2015-2016	Research Stays for University Academics and Scientists (German Academic Exchange Council) Award– Visiting scientist appointment 3 months at Ludwig Maximilian University, Munich during a 12-month visiting scientist appointment.
2014	University of Colorado – Chancellor’s Award for Excellence in STEM Education – \$10.000 for Spatial reasoning research program with Department of Geological Sciences, CU Boulder.
2014	University of Colorado - Outreach Award – \$8,000 Tribe’s Eye tribal youth engagement program
2014	Webby Award for CLEAN Collection.

Curriculum Vitae –Anne U. Gold (Reuther)

- 2013 **University of Colorado - Outreach Award** – \$13,625 Lens on Climate Change youth engagement program
- 2006 **Paul-Wolstedt Award of the German Quaternary Association** – dissertation was recognized as a significant and outstanding contribution to Quaternary research.
- 2005–2007 **Postdoctoral Fellowship** awarded by the German Academic Exchange Council (DAAD).
- 2003–2004 **Scholarship for Young Researchers** by Association of Geomorphologists; **Scholarship for Female Scientists** at University of Regensburg; **Scholarship to Support International Scientific Relations** at University of Regensburg; **DAAD Field Trip Scholarship** (Altai Mountains)
- 2002 **PhD Fellowship** awarded by the German Academic Exchange Council (DAAD).
- 2002–2005 **Honorary Appointment in the Advisory Board** of the German Mountaineering Association for project on sustainable mountaineering
- 2001 **Johanna-Löwenherz Award** for organization and leading of an Arctic Expedition
- 2000–2001 **Fulbright Scholarship** – Academic study-abroad year Boulder, Colorado, USA
- 1993 **Travel-Study Scholarship**, Oil Spill Research in Brittany, France, Stiftung für Studienreisen e.V. under patronage of UNESCO.

MANAGEMENT / SUPERVISOR RESPONSIBILITIES

Supervisor responsibilities in current role as CIRES Director Education & Outreach Program (*including performance evaluation, career track promotions, support in professional growth, guidance for project work, sponsorship of increasing professional visibility and opportunities, securing and managing funding for entire Program*).

The CIRES Education & Outreach Program includes a team of 27 team members and consultants (10-20), graduate student (2), and undergraduate students (3).

People I directly supervise include:

- Four PhD level research associates
- Nine MSc level research associates
- Three BSc level research associates
- Temporary employees (3)

Received formal Management and Leadership training at the German Alpine Association, where I oversaw 10 employees; individual coaching in supervisor role.

Ongoing professional development (Critical Conversation Training; Supervisor Training; Supervising in a hybrid Environment)

Delivery of Inclusive Mentorship training to various research groups (ongoing).

Dr. Anne U. Gold
(maiden name: Reuther)

Publications in Scientific and Educational Journals (h-index=23, hi-10=28; Google Scholar; ORCID - 0000-0002-5309-0762)

- (72) Schaecher, A., Rongstad Strong, B., **Gold, A.**, Newman, N., Okochi, C., Boyd, K., Megan, Littrell, See, K., Belson, S., Garcia, B. (in review): Empowering Rural Libraries as STEM Hubs Through Community Engagement and Partnerships: The We are Water Project. *Public Understanding of Science*.
- (71) Boyd, K.J., Littrell, M., Okochi, C., Stein, J., Valdez, S., **Gold, A.U.**, Rongstad Strong, B., Schaecher, A., Grybko, T. (2023): Engaging Communities and Adapting Informal Learning Research and Evaluation Methods to Rural Library Settings. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. Accepted.
- (70) Okochi, C., Littrell, M.K., Boyd, K.J., **Gold, A.U.** (2023): Water meaning maps: Diving deeper into rural library visitors' connections with water in the Southwest. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. Accepted.
- (69) Littrell, M.K., Okochi, C., Boyd, K., **Gold, A.U.**, Pennycook, D., McCormick, M., Mrakuzic, A. (2023): Engaging Library Visitors in Dialogues around Informal Learning about Water and Community Connections. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. Accepted.
- (68) **Gold, A.U.**, Maryboy, N., Begay, D., Valdez, S., Stein, J., Littrell, M., Boyd, K., Okochi, C., Rongstad Strong, B. (2023): Indigenous Logic Model Development: Fostering Collaborative Engagement and Cultural Relevance. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. Accepted.
- (67) Okochi, C, Gold, A.U., Christensen, A., Batchelor, R. (2023): Early access to science research opportunities: Growth within a geoscience summer research program for community college students, *PLOS One*, <https://doi.org/10.1371/journal.pone.0293674>.
- (66) Griffith, J., Braaten, M., Dubick, A., **Gold, A.** (2023) From Windy Day Stories to Wind Farms of the Future: Leveraging student resources to make sense of science phenomena with Data Puzzles. *Science Scope*
- (65) Rongstad Strong, B., Schaecher, A., **Gold, A.**, Knight, E. (2023): We are Water: Connecting Communities Through Stories and Conversations. Living Room Conversation blog Blog post as part of Earth Day and to advertise the new Living Room Conversations Guide. <https://livingroomconversations.org/we-are-water-connecting-communities-through-stories-and-conversations/>
- (64) Marsh, C., **Gold, A.**, Rongstad, B. (2023): Inclusive Science Communication: Strategies for Utilizing an Asset-Based Community Engagement Framework to Elevate Community Voices, Inspire Conversation, and Honor Multiple Ways of Knowing. *Frontiers in Communication*, 8, <https://doi.org/10.3389/fcomm.2023.1214105>
- (63) Schaecher, A., Rongstad, B., and **Gold, A.** (2023): We Are Water Patch Promotes Action for Watershed Stewardship. *Connected Science Learning*, 5 (4), <https://www.nsta.org/connected-science-learning/connected-science-learning-july-august-2023/we-are-water-patch-activity> .
- (62) Rongstad Strong, B., **Gold, A.**, Ratcliffe, C., Thomas, V. (2023): Place-Based Education and Community Knowledge Connect Youth to Water Topics. *Connected Science Learning*, 5 (4). <https://www.nsta.org/connected-science-learning/connected-science-learning-july-august-2023/place-based-education-and> .
- (61) Boyd, K., Busch, KC., **Gold, AU.**, Ward, EG., Niepold, F., Poppleton, K., Fiorile, G., Haas, D., Morrison, DL. (in revision): Using Social Network Analysis to Assess Connections within the Climate and Energy Education Field: Looking at the Collective Impact of the Climate Literacy and Energy Awareness Network (CLEAN). Submitted to *Humanities & Social Sciences Communications*.

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- (60) Quarderer, N., Wasser, L., **Gold, A.U.**, Montañó, P., Kim, L.H. (accepted). Fostering the Development of Earth Data Science Skills in a Diverse Community of Online Learners: A Case Study of the Earth Data Science Corps. Under review: *Journal of Statistics and Data Science Education*.
- (59) **Gold, A.U.**, Ward, E.G., Marsh, C., Moon, T., Khan, A., Schoenmann, S., Littrell, M. (2023). Measuring novice-expert sense of place for a far-away place: Implications for geoscience instruction. *PLoS ONE* 18(10): e0293003. <https://doi.org/10.1371/journal.pone.0293003>
- (58) Christensen, A., Welton-Mitchell, C., **Gold, A.**, James, L., Zeit, L. (2023): Beyond doom and gloom: Teaching climate change to foster empowerment. *Connected Science Learning* 5 (3).
- (57) Karplus, M.S., Young, T.J., Anandkrishnan, S., Bassis, J.N., Case, E.H., Crawford, A.J., **Gold, A.U.**, Henry, L.R., Kingslake, J., Lehrmann, A.A., Montalvo, P.A., Pettit, E.C., Scambos, T.A., Sheffield, E.M., Smith, E.C., Turrin, M., Wellner, J.S. (2023): Strategies to build a positive and inclusive Antarctic field work environment. *Annals of Glaciology*, Volume 63 (87-89), pp. 125 – 131, DOI: <https://doi.org/10.1017/aog.2023.32>.
- (56) Fortner, S., Manduca, C., Ali, H., Saup, C.M., Nyarko, S.C., Othus-Gault, S., Perera, V., Tong, V.C., **Gold, A.**, Furman, T. and Arthurs, L., 2022. Geoscience Education Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. DOI: <https://doi.org/10.1002/essoar.10510740.1>
- (55) **Gold, A.U.**, Atkins, R., McNeal, K. (2022): Undergraduates' Graph Interpretation and Scientific Paper Reading Shift from Novice- to Expert-like as a Result of Participation in a Summer Research Experience: A Case Study. *Scholarship and Practice of Undergraduate Research*, 5(2), p. 8-19.
- (54) Schloesser, K., Kurz, J., Gold, A.U. (2021): Too much or too little: Empowering students to plan for resiliency to flooding and drought. *The Earth Scientist*, Vol. XXXVIII, 3, 24-18.
- (53) Littrell, M. K., **Gold, A. U.**, Koskey, K. L., May, T. A., Leckey, E., & Okochi, C. (2022). Transformative experience in an informal science learning program about climate change. *Journal of Research in Science Teaching*. 1-25, DOI: 10.1002/tea.21750
- (52) **Gold, A.U.**, Forsyth, S., Rose, A. & Boyd, K. (in press): Creative Evaluation to Improve your Programming - Practical Tools and Tips for Evaluating Broader Impact Programs. Chapter 25. In: Van Egeren, L.A. & Renoe, S. (eds.): *Transformations in Higher Education: The Scholarship of Engagement*. Michigan State University Press. And associated toolkit: <https://www.colorado.edu/researchinnovation/research-development/other-resources/broader-impacts-network/broader-impacts-project-evaluation>
- (51) Batchelor, R. L., Christensen, A. H., **Gold, A. U.**, & Okochi, C. (2020). A two-week virtual research experience program for community college students in the geosciences. *Advances in Engineering Education*, 8(4).
- (50) Boyd, K. J., Okochi, C., Littrell, M. K., Batchelor, R. L., **Gold, A. U.**, & Leckey, E. (2021). Career implications for college student mentors through their contribution to a climate film outreach program for adolescents. *International Journal of Science Education*, Part B, 11(4), 308-323.
- (49) **Gold, A. U.**, Pfirman, S., & Scowcroft, G. A. (2021). The imperative for polar education. *Journal of Geoscience Education*, 69(2), 97-99, <https://doi.org/10.1080/10899995.2021.1903242>.
- (48) Leckey, E. H., Littrell, M. K., Okochi, C., González-Bascó, I., **Gold, A.**, & Rosales-Collins, S. (2021). Exploring local environmental change through filmmaking: The Lentas en Cambio Climático program. *The Journal of Environmental Education*, 52(4), 207-222.
- (47) Boyd, K. J., **Gold, A. U.**, & Littrell, M. K. (2021). Teaching practices around natural hazards and community resilience in Colorado. *Journal of Geoscience Education*, 1-14. <https://doi.org/10.1080/10899995.2021.1964319>
- (46) Hill, A. F., M. Jacquemart, **A. U. Gold**, and K. Tiampo (2021), Changing the culture of fieldwork in the geosciences, *Eos Transactions American Geophysical Union* 102, <https://doi.org/10.1029/2021EO158013>.
- (45) Batchelor, R. L., H. Ali, K. G. Gardner-Vandy, **A. U. Gold**, J. A. MacKinnon, and P. M. Asher (2021), Reimagining STEM workforce development as a braided river, *Eos Transactions American Geophysical Union* 102, <https://doi.org/10.1029/2021EO157277>.
- (44) Schloesser, K. A., & **Gold, A. U.** (2021). Bringing polar topics into the classroom: Teacher knowledge, practices, and needs. *Journal of Geoscience Education*, 69 (2): 113-122. <https://doi.org/10.1080/10899995.2020.1729076>
- (43) **Gold, A.U.** & Bruno, B.C. (2020): Publishing Education Research. In: Sloan, V., & Haacker, R. (Eds.). (eds). *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs* (1st ed.), p. 157-168. doi:10.5065/ycba-qw42

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- (42) Bruno, B.C., **Gold, A.U.**, Sloan, V. (2020): Evaluating your REU Program. In: Sloan, V., & Haacker, R. (Eds.). (eds). GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs (1st ed.), p. 145-155. doi:10.5065/ycba-qw42
- (41) Tayne, K., Littrell, M. K., Okochi, C., **Gold, A. U.**, & Leckey, E. (2020). Framing action in a youth climate change filmmaking program: Hope, agency, and action across scales. *Environmental Education Research*, 1-21, <https://doi.org/10.1080/13504622.2020.1821870>.
- (40) Griffith, J., Grandell, S., Harden, L., & **Gold, A.** (2021a). Teaching Nature of Science Concepts in the Context of Past (Fram) and Present (MOSAiC) Arctic Expeditions Breadcrumb. *Science Scope*, 44(4).
- (39) Littrell, M. K., Tayne, K., Okochi, C., Leckey, E., **Gold, A. U.**, & Lynds, S. (2020). Student perspectives on climate change through place-based filmmaking. *Environmental Education Research*, 26(4), 594-610.
- (38) *Morrison, A. L., Rozak, S., **Gold, A. U.**, & Kay, J. E. (2020). Quantifying student engagement in learning about climate change using galvanic hand sensors in a controlled educational setting. *Climatic Change*, 159(1), 17-36. (*graduate student publication, I was one of the lead mentors for the student*)
- (37) Littrell, M., **Gold, A.U.**, Tayne, K., Okochi, C., Leckey, E., Lynds, S., Williams, V., Wise, S. (2020). Exploring students' engagement with place-based environmental challenges through filmmaking: A case study from the Lens on Climate Change program. *Journal of Geoscience Education*, 68(1), 80-93.
- (36) Tayne, K., Littrell-Baez, M.K., Leckey, E., **Gold, A.U.** (2018): Engaging with Climate Change as a Socioscientific Issue in an Informal Science Learning Environment. In: Kay, J. & Luckin, R. (eds.) *Rethinking Learning in the Digital Age. Making the Learning Sciences Count.*, International Society of Learning Sciences Conference Proceedings, v. 1, p. 1715-1716.
- (35) Tayne, K., Littrell-Baez, M., Leckey, E., **Gold, A.** (2018): Toward More Meaningful Climate Change Education: Investigating the Role of Climate Change Solutions. Paper presented at American Evaluation Research Association Annual Meeting, New York. Extended Abstract
- (34) Littrell-Baez, M., Tayne, K., Leckey, E., **Gold, A.**, Okochi, C., Wise, S., Lynds, S., Smith, L., Oonk, D. (2018): A Qualitative Approach to Understanding Lens on Climate Change Students' Perspectives on Climate Change. Extended abstract for American Evaluation Research Association, Annual Conference, New York.
- (33) Cervato, C., Charlevoix, D., **Gold, A.**, Kandel, H. (2018): Research on Students' Conceptual Understanding of Environmental, Oceanic, Atmospheric, and Climate Science Content. In: St. John, K. (ed.): *A Community Framework for Geoscience Education Research. Framework of the Grand Challenges in Geoscience Education Research.* (online at https://nagt.org/nagt/geoedresearch/GER_framework/).
- (32) **Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Mueller, K. (2018): Improving Spatial Thinking Skills among Undergraduate Geology Students through short online Training Exercises. *International Journal for Science Education*. 40(18), 2205-2225, <https://doi.org/10.1080/09500693.2018.1525621>.
- (31) Libarkin, J.C, **Gold, A.U.**, Harris, S.E., McNeal, K.S, Bowles, R.P. (2018): A new, valid measure of climate change understanding: Associations with risk perception. *Climatic Change*, 150(3), pages 403-416.
- (30) **Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Stempien, J., Mueller, K., Kravitz, K. (2018): Spatial Skills in Undergraduate Students – Influence of Gender, Motivation, Academic Training, and Childhood Play. *Geosphere*, 14, no. 2, 668-683, doi:10.1130/GES01494.1.
- (29) **Gold, A.U.**, Leckey, E., Littrell-Baez, M., Smith, L., Lynds, S. (2018): Student-Produced Short Films About Impacts of Climate Change on Local Communities: An Effective Approach That Combines Art and Place-Based Learning. Opportunities and challenges of program implementation with secondary school students. *Journal of Sustainability Education* (ISSN: 2151-7452)
- (28) *Aksit, O., McNeal, K.S., Libarkin, J.L., **Gold, A.U.**, Harris, S., (2017): Undergraduate Students' Knowledge and Risk Perception about Climate Change. *Journal of Research in Science Teaching*, 55 n4 p550-572, doi:10.1002/tea.21430. (*graduate student publication*)
- (27) *Oonk, D.J., Leckey, E., **Gold, A.U.**, Margolin-Sneider, J., Littrell-Baez, M., Smith, L.K., Lynds, S. (2017): Lens on Climate Change - Using place-based learning to explore climate change effects. *Science Scope*, 41: 86–95 (*graduate student publication, I was the lead mentor for the student*)
- (26) Harris, S., Gold, A.U. (2017): Learning molecular behaviour may improve student explanatory models of the greenhouse effect - *Environmental Education Research*, 24 (5), 754-771, doi:10.1080/13504622.2017.1280448.
- (25) Smith, L., Rooney-Varga, J., **Gold, A.U.**, Oonk, D., Morrison, D. (2016): Engaging Secondary Students in Regionally relevant Science Topics Through Videography - Lens on Climate Change. In: *Media Literacy as*

Publication List – Anne U. Gold (Reuther)

- a Pathway to Bridge the Digital and STEM Divides: Interest Driven Media Projects for Teachers in the Trenches. in *Improving K-12 STEM Education Outcomes through Technological Integration*, edited by Dr. Michael Urban, Dr. David Falvo, IGI Global, ISSN: 2329-5929
- (24) **Gold, A.U.**, Kirk, K.B., Morrison, D., Lynds, S., Sullivan, S.B., Grachev, A., Persson, O. (2015): Arctic Climate Connections Curriculum - A Model for Bringing Authentic Data into the Classroom. *Journal of Geoscience Education*, Vol. 63, pp. 185-197.
- (23) **Gold, A.U.**, Oonk, D., Smith, L., Boykoff, M., Osnes, B., Sullivan, S.B. (2015): Lens on Climate Change: Making Climate Meaningful through Student-Produced Videos. *Journal of Geography*, Vol. 114, p. 235-246.
- (22) **Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Kirk, K.B., Grogan, M. (2015): Supporting Energy Education Online: Climate Literacy and Energy Awareness Network (CLEAN). *Journal of Sustainability Education*, http://www.jsedimensions.org/wordpress/content/supporting-energy-education-online-climate-literacy-and-energy-awareness-network-clean_2015_01/
- (21) Kirk, K., **Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Manduca, C.A., Mogk, D.W., Wiese, K. (2014): Undergraduate Climate Education: Motivations, Strategies, Successes, and Support. *Journal of Geoscience Education*, Vol. 62, No. 4, pp. 538-549.
- (20) Sullivan, S. B., Ledley, T.S., Lynds, S.E., **Gold, A.U.** (2014): Navigating Climate Science in the Classroom: Teacher Preparation, Perceptions and Practices. *Journal of Geoscience Education*, Vol. 62, No. 4, pp. 550-559.
- (19) Ledley, T. S., **Gold, A.U.**, Niepold, F., McCaffrey, M. (2014): Moving Toward Collective Impact in Climate Change Literacy – The Climate Literacy and Energy Awareness Network (CLEAN). *Journal of Geoscience Education*, Vol. 62, No. 3, pp. 307-318.
- (18) Ellins, K.K., Ledley, T.S., Haddad, N., McNeal, K., **Gold, A.U.**, Lynds, S., Libarkin, J. (2014): EarthLabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science. *Journal of Geoscience Education*, Vol. 62, No. 3, pp. 330-342.
- (17) Ledley, T.S., **Gold, A.U.**, Niepold, F. (2014): Enabling Climate and Energy Literacy – A Shared Effort. *EOS, Transactions American Geophysical Union*, Vol. 95, No. 36, pp. 325-326.
- (16) **Gold, A.U.**, Ledley, T.S., Buhr, S.M., Fox, S., McCaffrey, M., Niepold, F., Manduca, C. & Lynds, S. (2012): Peer-Review of Digital Educational Resources—A Rigorous Review Process Developed by the Climate Literacy and Energy Awareness Network (CLEAN). – *Journal of Geoscience Education*, Vol. 60, pp. 295-308.
- (15) **Reuther, A.U.**, Fiebig, M.C., Ivy-Ochs, S., Kubik, P.W., Reitner, J.M., Jery, H. & Heine, K. (2011): Deglaciation of a large Piedmont Lobe Glacier in Comparison with a small mountain glacier – new insight from surface exposure dating. Two studies from SE Germany. – *E&G Quaternary Science Journal*, Vol. 60 No. 2, pp. 248-269.
- (14) Heine, K., **Reuther, A.U.**, Thieke, H.-U., Schulz, R., Schlaak, N. & Kubik, P.W. (2009): Timing of Weichselian ice marginal positions in Brandenburg (northeastern Germany) using cosmogenic in situ ¹⁰Be. - *Zeitschrift für Geomorphologie*, Vol. 53, pp. 433-454.
- (13) Urdea, P., & **Reuther, A.U.** (2009): Some new data concerning the Quaternary glaciation in the Romanian Carpathians. - *Geographica Pannonica*, Vol. 13, No. 2, pp. 41-52.
- (12) Ivy-Ochs, S., Kerschner, H., **Reuther, A.**, Preusser, F., Heine, K., Maisch, M., Kubik, P.W. & Schlüchter, C. (2008): Chronology of the last glacial cycle in the northern European Alps. - *Journal of Quaternary Science*, Vol. 23, No. 6-7, pp. 559-573.
- (11) **Reuther, A.U.**, Urdea, P., Geiger, C., Ivy-Ochs, S., Niller, H.-P., Kubik, P. & Heine, K. (2007): The glacial chronology of the Pietrele Valley, Retezat Mountains, Southern Carpathians constrained by ¹⁰Be exposure ages and pedological investigations. - *Quaternary International*, Vol. 164-165, pp. 151-169.
- (10) Kubik, P.W. & **Reuther, A.U.** (2007): Attenuation of cosmogenic ¹⁰Be production within the first 20 cm below a rock surface. - *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, Vol. 259, No. 1, pp. 616-624.
- (9) **Reuther, A.U.** (2007): Surface exposure dating of glacial deposits from the last glacial cycle. Evidence from the Eastern Alps, the Bavarian Forest, the Southern Carpathians and the Altai Mountains. - *Relief, Klima, Paläoboden, Proceedings of the Bavarian Academy of Sciences*, Verlag Schweizerbart 21, Stuttgart, 196 p.

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- (8) Fiebig, M.C.; Preusser, Frank; Drescher-Schneider, R.; Häuselmann, P.; Klasen, N.; **Reuther, A.U.**; Schlüchter, Christian (2007). *Glacial stratigraphy in the Northern Alpine Foreland -History and state of the Art*. Quaternary International, 168, p. 115. Elsevier
- (7) Ivy-Ochs, S., Kerschner, H., **Reuther, A.**, Maisch, M., Sailer, R., Schaefer, J., Kubik, P.W., Synal, H.-A. & Schlüchter, C. (2006): The timing of glacier advances in the northern European Alps based on surface exposure dating with cosmogenic ^{10}Be , ^{26}Al , ^{36}Cl , and ^{21}Ne . - In: L.L. Siame, D.L. Bourles, E.T. Brown (eds.): In Situ Cosmogenic Nuclides and their Applications in Earth Sciences. *Geological Society of America Special Paper*, Vol. 415, pp. 43-60.
- (6) Reitner, J. M., **Reuther, A. U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. W. & Draxler, I. (2006): The sturzstrom event of Feld (Matrei/Eastern Tyrol/Austria): A forgotten catastrophe during early human settlement in the Alps? - In: M. Tessardi-Wackerle (eds.): *PANGEO Austria 2006*, Innsbruck, pp. 274-275.
- (5) **Reuther, A.U.**, Ivy-Ochs, S., Heine, K. (2006): Application of surface exposure dating in glacial geomorphology and the interpretation of moraine ages. *Holocene Landscape Development and Geoarchaeological Research* 142, 335-359.
- (4) **Reuther, A.U.**, Herget, J., Ivy-Ochs, S., Borodavco, P., Kubik, P.W. & Heine, K. (2006): Constraining the timing of the most recent cataclysmic flood event from ice-dammed lakes in the Russian Altai mountains, Siberia using cosmogenic in-situ ^{10}Be . – *Geology*, Vol. 34, pp. 913 – 916.
- (3) **Reuther, A.U.**, Ivy-Ochs, S. & Heine, K. (2006): Application of surface exposure dating in glacial geomorphology and the interpretation of moraine ages. – *Zeitschrift für Geomorphologie*, NF 142, pp. 335-359.
- (2) **Reuther, A.U.**, Geiger, C., Urdea, P. & Heine, K. (2004): Determining the glacial equilibrium line altitude (ELA) for the northern Retezat Mountains, Southern Carpathians and resulting paleoclimatic implications for the last glacial cycle. - *Analele Universității de Vest din Timișoara, Geografie*, Vol. 16, pp. 9-32.
- (1) **Reuther, A.** (2002): Die Problematik das Skibergsteigens in der Bergwaldhöhenstufe der Bayerischen Alpen. - *Jahrbuch des Vereins zum Schutz der Bergwelt*, Vol. 67, pp. 261-276.

Book Reviews & Reports

- Joyce Malyn-Smith, Jessica Juliuson, Sarah MacGillivray, Irene Lee, Clara McCurdy-Kirlis. (2020). K-8: Career Competencies: Pointing to a Future of Hope. (Contributor & Reviewer).
- Gold, A.U.** (2013): Book Review: Global Weirdness. By Climate Central. Reports of the National Center for Science Education <http://reports.ncse.com/index.php/ncse/article/view/199/340>.

Invited Presentations, Seminars, Panels, Talks outside of Conference Presentations (since 2014)

- Gold, A.U.**, Gavenus, K. (2019): MOSAiC - US Outreach and Engagement. Fedorov presentation series on icebreaker, Fedorov icebreaker
- Morrison, D., Han, R., **Gold, A.**, Boyd, K., Christensen, A. (2020): Designing Climate Science Education in Elementary Learning Communities. ClimeTime Professional Development for Teachers in Washington State, virtual
- Montano, P., **Gold, A. U.**, Rongstad, B. (2021): We are Water: Connecting Communities 2021 STEM for All Video Showcase.
- Lenz, J., **Gold, A.**, Krueger, F., Lehmann, R., Ebert, F., Hermann, M. (2020): From icebreakers into classrooms - opportunities for educators and scientists. Arctic Researcher and Icebreaker Consortium; APECS. virtual
- Griffith, J., Harden, L., **Gold, A.** (2020): On Board with MOSAiC: Engaging the Public with Collaboratively Designed Resources. APECS, Opening doors: Collaboration across knowledge systems, virtual
- Gold, A.U.** (2020): CIRES Education & Outreach Program. RIO Broader Impact Summit, virtual panel.
- Gold, A.U.** (2020): The Climate Literacy and Energy Awareness Network (CLEAN) - An ESIP Cluster. Earth Science Information Partners, virtual panel
- Taylor, J., **Gold, A.U.**, Niepold, F. (2018): Creating Your Own Climate and Energy Education Units with CLEANet.org, Spokane, WA
- Gold, A.U.** (2018): Evaluation of Research Experience for Undergraduate Programs. NSF-REU Geo Workshop, PI meeting. *Geo REU Principal Investigator Meeting*, Boulder, CO, United States

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- Boyd, K., **A. Gold** (2018): CLEAN & NGSS. *Colorado Science Conference*, Denver, CO, Workshop
- Gold, A.U.**, Leckey, E., Taylor, J., Schloesser, K., Boyd, K., Littrell, M. (2019): HEART Force - the Hazard Education Awareness Resilience Taskforce project. *NOAA Environmental Literacy Principal Investigator Meeting*, Washington, D.C., panelist
- Gold, A.U.** (2019): Broadening Participation - How to increase the diversity in the CSDMS project. *CSDMS annual meeting*, Boulder, CO, United States, panelist
- Gold, A.** (2019): Case Studies of Successful Broader Impact Partnerships. *Arctic Researchers and Informal Science Education (ARISE) Workshop*, RI, panelist
- Gold, A.U.** (2018): Evaluation of Research Experience for Undergraduate Programs. NSF-REU Geo Workshop, PI meeting, Boulder, CO.
- Gold, A.U.** (2018): Climate Literacy and Energy Awareness Network (CLEAN): Climate and Energy Resources Supporting Three-Dimensional Learning, Presentation to 200+ NOAA Planet Stewards, virtual.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Abbott, L., Mueller, K., Stempien, J. (2018): The Importance of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Departmental Colloquium, Department of Geological Sciences, University of Colorado, Boulder.
- Gold, A.U.** (2016): Social Network Analysis as an Evaluation Tool. ITEST PI-meeting, Arlington, VA.
- Gold, A.U.** (2016): Klimabildung [Climate Education]. Diskurs-Arena: Nachhaltigkeit und Ethik in der Lehrerbildung, Munich, Bavaria, Germany.
- Gold, A.U.** (2016): Distribution of Spatial Reasoning Skills in Geology Students in at LMU/TU Munich and the Effect of Weekly Spatial Skill Trainings. Departmental Seminar LMU, Munich, Germany.
- Gold, A.U.**, Hubenthal, M. (2016): Evaluation in REU Programs. NSF-REU GEO Workshop, PI meeting, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., (2015): Distribution of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Ludwig Maximilians University Munich, Germany.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Distribution of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. North Carolina State University, Raleigh, NC.
- Gold, A.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. STEM Community College Summit, Boulder, CO.
- Gold, A.U.**, Sullivan, S.B., Morrison, D. (2014): Best Practices in Online Learning -The CIRES Perspective. AGU and AMS Heads and Chairs Meeting, Boulder, CO.

Conference and Workshop Oral Presentations

- Gold, A.U.**, Boyd, K., Niepold, F., Frankel-Goldwater, L., Fiorile-Desranleau, G., Chandler, P. (2023): Empowering Climate Education: Leveraging the Fifth National Climate Assessment (NCA5) for Action and Empowerment, AGU Fall meeting (invited oral presentation).
- Gold, A.U.**, Rongstad, B., Ratcliffe, C., Maryboy, N.C., Littrell, M., Newman, N., Boyd, K., Okochi, C., Stein, J., Valdez, S. and We are Water team (2023): Collaborate to Innovate: We Are Water - Building Resilience through Community Engagement on Water Topics. AGU Fall meeting (oral presentation)
- Johnson, N., Carlo, N., Temte, J., **Gold, A.U.**, Moon, T.A., Gregory, A., Spellman, K., Sparrow, E., Druckenmiller, M. (2023): Towards an “Arctic Together”: Supporting an Inclusive and Diverse Community through the Navigating the New Arctic Community Office. AGU Fall meeting (oral presentation).
- Schloesser, K., Littrell, M., Christensen, A., Boyd, K., **Gold, A.U.** (2023): Place-Based Strategies for Community Climate Resilience in Classrooms of the Rural Western US. AGU Fall meeting (oral presentation).
- Dryák-Vallies, M.C., Markle, B., **Gold, A.U.** (2023): Challenges, Needs and Proposed Solutions for Better Supporting Everyone in Our Polar Early Career Researcher Community. AGU Fall meeting (oral presentation)
- Balch, J., et al. (2023): The Environmental Data Science Innovation & Inclusion Lab (ESIIL): a next-generation NSF data synthesis center. ESA Meeting, Portland
- Rongstad Strong, B., **Gold, A.U.** (2023): Connecting Diverse Communities with Science Topics through Storytelling. Association for Science and Technology Centers 2023 Annual Conference.

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- Littrell, M., Johnston, K., Okochi, C., Boyd, K., **Gold, A.**, Rongstad Strong, B. (2023): Strengthening Community-Engaged Research with Collaboration: Support from Local Student Assistants. Engagement Scholarship Consortium 2023.
- Littrell, M., Boyd, K., Schloesser, K., **Gold, A.**, Christensen, A. (2023): Building Students' Understanding of Natural Hazards and Confidence to Engage in Community Resilience Efforts. National Association for Research in Science Teaching Conference, Chicago.
- Gold, A.U.**, Busch, K.C., Niepold, F., Ward, E.G., Boyd, K., Fiorile, G., Poppleton, K., Haas, D. (2022): Increasing Interconnectedness among Climate Change Education Efforts. Results from a social network analysis of the Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union Meeting, Chicago, December 2022, **invited talk** in Union session.
- Stamo, D.F., Christensen, A., Okochi, C., **Gold, A.U.**, Batchelor, R.L., Pennycook, D., Velez, K.P., (2022): How to Support the Main Character: A Model for Improving Retention through Empowered Negotiation of Science Identity. American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Christensen, A., Stamo, D.F., Okochi, C., Batchelor, R.L., **Gold, A.U.** (2022): Braiding Community College Students' Rivers: Increasing Access and Persistence in the Geosciences, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Arthurs, L., Mulvey, B.K., St. John, K., Furman, T., Hendratta, A., Fortner, S, Manduca, C.A., **Gold, A.U.** (2022): ICON Science Relevance to Geoscience Education, American Geophysical Union Meeting, Chicago, December 2022, **invited talk**.
- Dryak, M.C., **Gold, A.U.**, Batchelor, R.L., Markle, B. (2022): Community-Building as a Mechanism for Inclusion and Belonging in the Cryospheric and Polar Sciences: Early Thoughts from the New Polar Science Early Career Community Office, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Rongstad, B., **Gold, A.U.**, Newman, N., Ratcliffe, C., Fairfax, E., Schaecher, A., Boyd, K., Okochi, C., Littrell, M., Maryboy, N.C., Begay, D.H., Valdez, S., Stein, J. & We are Water Project Team (2022): Using Storytelling to Connect Diverse Communities with Science Topics Through Informal Education Experiences, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Gold, A.U.**, Moon, T., Khan, A., Schoenemann, S. W., Ward, E.M.G, Pennycook, D., Lazoen, A. & Lei, Y. (2022): Bringing Polar Landscapes into The College Classroom Using 360-Degree Interactive Environments. Geological Society of America Annual Meeting, doi: 10.1130/abs/2022AM-382737. (invited)
- Gold, A.U.**, Ward, E., Marsh, C., Littrell, M., Moon, T., Khan, A., Schoenemann, S. W. (2022): Measuring Novice-Expert Meanings For Far-Away Places: An Approach For Characterizing Place Meaning And Its Implications For Geoscience Instruction, doi: 10.1130/abs/2022AM-382637.
- Littrell, M.K., Schloesser, K., Boyd, K., Christensen, A., **Gold, A.U.**, & Okochi, C. (2021): Understanding how different learning contexts and levels of community and classroom engagement empower youth to build community resilience to environmental hazards in rural Colorado. *American Geophysical Union Fall Meeting*, virtual, vol. ED53B-06
- Rongstad, B., Montano, P., Newman, N., **Gold, A.U.**, Ratcliffe, C., Boyd, K., Okochi, C., Okochi, C., Littrell, M., Maryboy, N., Begay, D., & LaConte, K. (2021): Community Voices and Collaborative Partnerships Inform Development of Informal STEAM Education Experiences. *American Geophysical Union Fall Meeting*, Virtual & New Orleans, LA.
- Gold, A.U.**, Littrell, M., Okochi, C., Harden, L., Christensen, A., Griffith, J. (2021): Inspiring and engaging learners in science topics - Tools to measure transformational science educational experiences. *American Geophysical Union Fall Meeting*, New Orleans, invited
- Batchelor, R., Ali, H., Gardner-Vandy, K.G., **Gold, A.**, MacKinnon, J., Matthews, J., Asher, P. (2022): Dismantle the Pipeline: Reframing STEM Workforce Development as a Braided River. *American Meteorological Society Meeting*, Husdon, virtual
- Christensen, A., Batchelor, R., Okochi, C., **Gold, A.**, Stamo, D. (2021): Supporting Students' Well-being and Fostering a Sense of Belonging in the Sciences Through Vulnerable Exploration of Identity, Border Crossings, and Imposter Syndrome. *American Geophysical Union Fall Meeting*, New Orleans, virtual.
- Boyd, K.J., Fiorile, G., **Gold, A.**, Niepold, F., Ochwat, N., Christensen, A., Bruckner, M., Fox, S., Kirk, K., Ledley, T. (2022): The Climate Literacy and Energy Awareness Network (CLEAN). *American Meteorological Society Meeting*, Houston, virtual
- Gold, A.U.**, Leckey, E., Schloesser, K., Littrell, M., Okochi, C., Boyd, K., Montano, P. (2020): Engaging learners around climate change impacts in their communities - Strategies learned from in-class, after-school and informal learning education programs in rural communities of the Southwestern US. AGU Fall Session. virtual. (invited)

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- Littrell, M., Maryboy, N., Begay, D., Valdez, S., Stein, J., **Gold, A.**, Montano, P., Boyd, K., Okochi, C. (2020): The Yucca Plant as a Model for Program Development in the “We are Water” Traveling Library Exhibit in the Four Corners Region. GEO Indigenous Summit 2020, Geneva, online, Switzerland.
- Gold, A.U.**, Morrison, A., Kay, J. (2020): Exploring student engagement in learning climate science in different instructional settings Geological Society of America. Portland, OR, virtual.
- Harden, L., Griffith, J., **Gold, A.** (2020): Engaging the Public in Science Learning with the 2019-2020 MOSAiC Arctic Research Expedition American Geophysical Union Fall Meeting. virtual.
- Okochi, C., **Gold, A.**, Christensen, A., Batchelor, R. (2020): A Two-Week Virtual Research Experience for Community College Students (RECCS). Geological Society of America. Portland, OR, virtual.
- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N., Christensen, A., Morton, A., Morrison, D., Bruckner, M., Chandler, P., Ledley, T., Manning, C., Kirk, K., Fox, S. (2021): A Decade of Climate Literacy - The Climate Literacy and Energy Awareness Network (CLEAN) turns 10 American Meteorological Society Meeting. virtual.
- Boyd, K., Littrell, M., Okochi, C., **Gold, A.**, Leckey, E., Batchelor, R. (2020) Impacts on College and Graduate Student Mentors from Guiding Secondary Students in a Community-based Climate Change Outreach Program American Geophysical Union Fall Meeting. virtual.
- Montano, P., **Gold, A.U.**, Leckey, E., Boyd, K., Okochi, C., Littrell, M., Okochi, C., Maryboy, Nancy., LaConte, K., Newman, N., Valez, S., Stein, J. (2020): We Are Water - Community Perspectives at the Center Of Designing Informal STEM Education Experiences About Water American Geophysical Union Fall Meeting. virtual.
- Schloesser, K., Leckey, E., Christensen, A., **Gold, A.**, Okochi, C., Boyd, K., Littrell, M., Morton, A. (2020) Creating Local Pathways for Resilience to the Impacts of Global Climate Change with the Hazard Education and Resilience Task (HEART) Force in Rural Colorado. American Geophysical Union Fall Meeting. virtual.
- Christensen, A., Batchelor, R., Okochi, C., **Gold, A.** (2020) Going virtual: Lessons Learned from a Two-Week Virtual Summer Research Experience for Community College Students. American Geophysical Union Fall Meeting. virtual.
- Littrell, M., Leckey, E., **Gold, A.**, Tayne, K., & Okochi, C. (2020): The Lens on Climate Change: Engaging and Inspiring Secondary Students through Place-based Filmmaking. NARST, Baltimore, MD.
- Boyd, K., **A. Gold** (2019): Climate Literacy Education - Barriers, Successes, and Future Work, Pardee Session. Geological Society of America, Phoenix, AZ. (Invited)
- Littrell, M.K., **Gold, A.**, Boyd, K., Taylor, J., Leckey, E., Schloesser, K., & Morton, A. (2019): Empowering youth to envision community resilience actions around natural hazards. Center for STEM Learning 11th annual Symposium on STEM Education, Boulder, CO.
- Lynds, S., **Gold, A.**, Boyd, K., Morton, A. (2019): A decade of enhancing climate and energy literacy-CLEAN’s program-wide evaluation. American Evaluation Conference, Minneapolis, MN
- Leckey, E., **Gold, A.**, Schloesser, K., (2019): Building Resilience in Colorado Communities to Natural Hazards. Colorado Science Conference, Denver, CO
- Leckey, E., Gonzalez-Bascu, I., **Gold, A.U.**, Littrell, M., Okochi, C. (2019): Exploring local environmental change through filmmaking: the Lentas En Cambio Climatico Program. American Geophysical Union Fall Meeting, San Francisco, CA
- Boyd, K., **Gold, A.U.**, Littrell, M., Leckey, E., Morton, A., Schloesser, K., Okochi, C. (2019): Hazard Education and Resilience Awareness Task Force (HEART) Needs Assessment: Colorado teachers’ experience in and needs for teaching about natural hazards and community resilience. American Geophysical Union Fall Meeting, San Francisco, CA (invited)
- Leckey, E., **Gold, A.**, Boyd, K., Schloesser, K., Morton, A., Littrell, M. (2019): Empowering youth to envision community resilience actions through scenario-based natural hazard game. American Geophysical Union Fall Meeting, San Francisco, CA
- Schloesser, K., Leckey, L. Taylor, J., **Gold, A.U.**, Okochi, C., Boyd, K., Littrell, M., Morton, A., (2019): Planning for resilience: the Hazard Education and Resilience Awareness Task empowers youth to lead the resilience conversation in rural Colorado. American Geophysical Union Fall Meeting, San Francisco, CA
- Gold, A.**, Schloesser, K., Human, K., Shupe, M., Richman, A., Nixon, L., Metzinger, T., Bogan, K., Morris, S., Weeman, K. (2019): MOSAiC - a Year in the Ice. Engaging the Public through Captivating Science. American Geophysical Union Fall Meeting, San Francisco, CA
- Ledley, T. S., **Gold, A.U.**, Niepold, F., Taylor, J. , Kirk, K. , Bruckner M. & Fox, S. (2018): Using the CLEAN Collection to Build Three-Dimensional Lessons to Teach the Climate System. *Goldschmidt*, Boston, CO
- Gold, A.**, Curry, R.M., Briggs, J., Smith, L., McNeal, K., Atkins, R., Batchelor, R., Luna Medina, L., Anderson, S. (2018): Research Experience for Community College Students: Smoothing the Pipeline for 2YC Students into Geoscience Programs at 4YCs. *Geological Society of America*, Indianapolis, IN

Publication List – Anne U. Gold (Reuther)

- Morrison, A., Kay, J.E., Gold, A.U., McNeal, K., Soltis, N. (2018): Using Galvanic Skin Sensors to Measure Engagement and Learning Outcomes During Teacher Workshops and Undergraduate Classes about Climate Science. *Earth Educators' Rendezvous*, Lawrence, KS
- Taylor, J., Niepold, F., **Gold, A.U.**, Manning, C. (2018): Creating Your Own Climate and Energy Education Units with CLEANet.org. North American Association for Environmental Educators. Annual National Meeting, Spokane, WA.
- Ledley, T., **Gold, A.U.**, Niepold, F., Taylor, J., Kirk, K., Bruckner, M., Fox, S. (2018): Using the CLEAN Collection to Build Three-Dimensional Lessons to Teach the Climate System. [invited] Goldschmidt Conference, Boston, MA.
- Charlevoix, D.J., **Gold, A.U.**, Kandel, H., Cervato, C. (2018): Advancing Atmospheric Sciences Education Research: Developing a Framework around Grand Challenges of the Broader Geoscience Education Research Community. American Meteorological Society Annual Meeting.
- Gold, A.U., Rose, A., Fenwick, J. (2018): Encouraging Storytelling in Science Outreach. National Alliance for Broader Impact, Providence, RI.
- Forsyth, S., Rose, A., Gold, A. (2018): Low Budget Evaluation Tools. National Alliance for Broader Impact, Providence, RI.
- Gold, A.U.**, Sullivan, S.M., Manning, C.L., Ledley, T.S., Youngman, E., Taylor, J., Niepold, F., Kirk, K., Lockwood, J., Bruckner, M.Z., Fox, S., (2017): Using the CLEAN educational resource collection for building three-dimensional lessons to teach the climate system. [invited] American Geophysical Union Fall Meeting, New Orleans.
- Wasser, L.A., **Gold, A.U.** (2017): A Program Wide Framework for Evaluating Data Driven Teaching and Learning - Earth Analytics Approaches, Results and Lessons Learned. American Geophysical Union Fall Meeting, New Orleans.
- Leckey, E., Littrell-Baez, M., Tayne, K., **Gold, A.U.**, Okochi, C., Oonk, D., Smith, L., Lynds, S.E. (2017): Storytelling and Technology Combine to Create Student Engagement Around Locally Relevant. American Geophysical Union Fall Meeting, New Orleans.
- Libarkin, J.C, **Gold, A.U.**, Harris, S.E., Mcneal, K.S, Bowles, R.P. (2017): Relating Understanding and Risk Perception with A Validated Measure of Climate Change Conceptions [invited]. Geological Society of America Annual Meeting, Seattle.
- Gold, A.U.**, Morrison, A., Soltis, N.A., Mcneal, K., Kay, J.E. (2017): Measuring Engagement and Learning Outcomes During A Teacher Professional Development Workshop About Creative Climate Communication. Geological Society of America Annual Meeting, Seattle.
- Smith, L., **Gold, A.U.**, Anderson, S.P., Taylor, J.L., Luna, L.M., Batchelor, R. (2017): Research Experience for Community College Students in Critical Zone Science: Smoothing the Pipeline For 2YC Students Into Geoscience Programs at 4YCs. Geological Society of America Annual Meeting, Seattle.
- Shabram, P., Smith, L., **Gold, A.**, Charlevoix, D., Morris, A., Russo-Nixon, K., Miller, M. (2017): Building Pathways to STEM Careers in Geoscience and Environmental Science through the Colorado Community Colleges. Earth Educator's Rendezvous, Albuquerque, NM.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Stempien, J., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2016): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Training. European Geophysical Union Meeting, Vienna, Austria.
- Gold, A.U.**, Gordon, E.S. (2016): Using a Massive Open Online Course (MOOC) for Earth Science Education: Who Did We Teach and What Did We Learn? European Geophysical Union Meeting, Vienna, Austria.
- Gold, A.U.**, Ledley, T.S., Grogan, M., Sullivan, S., Lockwood, J., Youngman, B., Manning, C., Holzer, M., Niepold, F. (2016): Teaching about Climate and Energy using NGSS-aligned resources from the CLEAN Collection and a new Earth System Investigation framework. American Geophysical Union Fall Meeting, San Francisco, CA.
- Gold, A.U.**, Pendergast, P., Stempien, J., Ormand, C., Budd, D., Mueller, K., Kravitz, K. (2016): Importance of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings – with a Specific Focus on the Gender Gap. Geological Society of America, Denver, CO.
- Leckey, E., **Gold, A.U.**, Wise, S., Littrell-Baez, M., Lynds, S., Oonk, D., Smith, L., Cozzetto, K., Alweis, D., Forsyth, S., Carpenter, E. (2016): Lens on Climate Change (LOCC)—Engaging Diverse Secondary Students in Climate Science Through Filmmaking. Geological Society of America, Denver, CO.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2016): Research Experience for Community College Students in Colorado: Insights on Improving the Pipeline of 2YC Students into the Geosciences. Geological Society of America, Denver, CO, USA

Publication List – Anne U. Gold (Reuther)

- Sullivan, S., **Gold, A.**, Kirk, K., Lynds, S., Morton, A. (2016): Evaluating a Web Portal for Quality of Relationship. Best of Both Worlds, Estes Park, CO.
- McNeal, K.S., Libarkin, J., Ledley, T., **Gold, A.**, Lynds, S., Haddad, N., Ellins, K., Dunlap, C., Bardar, E., Youngman, B. (2015): Assessment of High-school Students Engaged in the EarthLabs Climate Modules using the Climate Concept Inventory. American Geophysical Union Meeting, San Francisco.
- Ledley, T., **Gold, A.U.**, Niepold, F. (2015): The Climate Literacy and Energy Awareness Network (CLEAN) – Enabling Collective Impact on Climate and Energy Literacy. American Geophysical Union Meeting, San Francisco
- Libarkin, J., **Gold, A.U.**, Harris, S, McNeal, K., Bowles, R. (2015): Psychometric Principles in Measurement for Geoscience Education Research: A Climate Change Example. American Geophysical Union Meeting, San Francisco.
- Gold, A.U.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R., Monday, B., Fierer, N., Rangwala, I. and McCutchan, J. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Oonk, D., **Gold, A.U.**, Cozzetto, K., Avery, K., Bergren, J., and Nakai, J. (2015): Tribe's Eye Project. CIRES Rendezvous, Boulder
- Atkins, R., McNeal, K.S., Luginbuhl, S., **Gold, A.U.** (2015): An Eye-Tracking Study on Expert-Novice Differences During Climate Change Graph Reading Tasks. Geological Society of America Meeting, Baltimore.
- Kirk, K.B., **Gold, A.U.**, Sullivan, S. (2015): Dissecting the Tactics of Climate Denial: Lessons for Communicators. Geological Society of America Meeting, Baltimore.
- Gold, A.U.**, Gordon, E. (2015): Using a Massive Open Online Course (MOOC) for Earth Science Education: Who Did We Teach and What Did We Learn? Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Earth Educators' Rendezvous, Boulder, CO.
- Lynds, S., Sullivan, S., **Gold, A.**, Kirk, K., Morton, A., (2015): Evaluating the Climate.gov Web Portal—A Key Resource for Climate Information. Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Discipline-based Education Research Group, Boulder
- Niepold, F., Shrestha, S., Herring, D., Gardiner, N., Sullivan, S., Keck, J., Lynds, S., **Gold, A.U.** (2014): Leveraging Climate Science for Societal Benefit and Application. American Geophysical Union, San Francisco, CA, USA.
- Gold, A.U.** & Harris, S. (2014): Measuring understanding of the greenhouse effect in University students—a comparison of different assessment tools with respect to students' mental models. American Evaluation Association Conference, Denver, CO.
- Helms, J. & **Gold, A.U.** (2014): An Informant Network as a Mechanism to Study a Large-scale Intervention: Results from the Climate Literacy and Energy Awareness Network (CLEAN). American Evaluation Association Conference, Denver, CO.
- Ledley, T.S., **Gold, A.U.**, Sullivan, S.B., Grogan, M., Niepold, F. (2014): The Climate Literacy and Energy Awareness Network (Clean). Geological Society of America Meeting, Vancouver, Canada.
- Sullivan, S.B., **Gold, A.U.**, Lynds, S.E., Ledley, T.S. (2014): Educator Energy Literacy Practices and Needs as Drawn from The Climate Literacy and Energy Awareness Network Collection Project. Geological Society of America Meeting, Vancouver, Canada.
- Ellins, K.K., Lockwood, J., Mote, A., Haddad, N., Ledley, T.S., Lynds, S., McNeal, K.S., Libarkin, J., **Gold, A.**, IODP Expedition 341 Science Team (2014): Earthlabs Climate Detectives: Curriculum Based on IOPD Expedition 341 on the Joides Resolution. Geological Society of America Meeting, Vancouver, Canada.
- Kirk, K.B., **Gold, A.U.**, Morrison, D., Lynds, S., Sullivan, S.B., Grachev, A.A., Persson, O. (2014): Arctic Climate Curriculum: Engaging High School Students with Authentic Data in A Flexible, Relevant, And Easy-To-Use Format. Geological Society of America Meeting, Vancouver, Canada.
- Gold, A.U.**, Ledley, T., Kirk, K., Grogan, M. (2014): Climate Literacy and Energy Awareness Network – A resource for educators and learners. Presentation at the Department of Energy: Energy Education Summit (virtual presentation).
- Oonk, D., **Gold, A.U.**, Smith, L., Sullivan, S.B., Boykoff, M., Osnes, B. (2014): Lens on Climate Change (LOCC) – Engaging Secondary Students in Climate Science through Videography. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Kirk, K., Morrison, D., Grachev, A., Persson, O., Lynds, S. (2014): Arctic Climate Data in the Classroom. CIRES Rendezvous, Boulder, CO.

Publication List – Anne U. Gold (Reuther)

- Gold, A.U.**, Stempien, J., Budd, D., Mueller, K., Kravitz, K., Oonk, D. (2014): Studying Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Discipline-based Education Research Group, Boulder, CO.
- Harris, S.E., **Gold, A.U.** (2013): Student Mental Models of the Greenhouse Effect: Retention Months After Interventions, American Geophysical Union Fall Meeting, San Francisco, CA.
- Gold, A.U.**, Harris, S.E. (2013): Measuring University students' understanding of the greenhouse effect – a comparison of multiple-choice, short answer and concept sketch assessment tools with respect to students' mental models, American Geophysical Union Fall Meeting, San Francisco, CA.
- Ledley, TS, **Gold, A.U.**, Niepold, F., McCaffrey, M. (2013): The CLEAN Network – Working toward Collective Impact on Climate Literacy. Fall AGU Meeting, San Francisco, CA.
- Sullivan, SB, Ledley, T.S., Kellogg, N., **Gold, A.U.**, Lynds, S., Manduca, C. (2013): What to do Next? Supporting Climate Literacy within Next Generation Science Standards. Fall AGU Meeting, San Francisco, CA.
- McNeal, K., Libarkin, J.C., Ledley, T.S., **Gold, A.U.**, Lynds, S.E., Haddad, N., Ellins, K.K., Bardar, E., Dunlap, C., Youngman, E. (2013): Development of a Climate Concept Inventory and Assessment of High-school Students Engaged in the EarthLabs Climate Modules. American Geophysical Union Meeting, San Francisco, CA.
- Morrison, D., **Gold, A.U.** (2013): Climate Literacy and Energy Awareness Network (CLEAN): Instructional Resources for Science Educators. Regional National Science Teacher Association Conference, Denver, CO.
- Taylor, J., **Gold, A.U.**, Buhr, S.M., Smith, L. (2013) Teaching Climate and Energy: Classroom Resources to Support Your Teaching. Regional National Science Teacher Association Conference, Denver, CO.
- Gold, A.U.**, Harris, S.E. (2013): Measuring University Students' Understanding of the Greenhouse Effect. Discipline Based Education Research Group, Boulder, CO.
- Ellins, K., Ledley, T., Haddad, N., McNeal, K., **Gold, A.U.**, Lynds, S., Libarkin, J., Quartini, E., Thirumalai, K., Caviette, M. (2013): Earthlabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science, Geological Society of America Meeting, Denver, CO.
- Gold, A.U.**, Ledley, T.S., Kirk, K., Sullivan, S.B., Manduca, C., Lynds, S. (2013): Investigating and Supporting Energy Education as a Component of Climate Education. Geological Society of America Meeting, Denver, CO.
- Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Grogan, M., Lynds, S. (2013): Climate Communication and Education – Effective Framework Developed by the Climate Literacy and Energy Awareness Network (CLEAN). Geological Society of America Meeting, Denver, CO.
- Harris, S., **Gold, A.U.** (2013): University Students' Mental Models of The Greenhouse Effect: A Comparison of Two Learning Activities in Moving Students Toward Expert Thinking, Geological Society of America Meeting, Denver, CO.
- Ledley, TS, **Gold, A.U.**, Niepold, F., Grogan, M., Kirk, K., Sullivan, S.B., Lynds, S., McCaffrey, M., Manduca, C.A., Fox, S. (2013): The Climate Literacy and Energy Awareness Network (CLEAN): Leveraging Reviewed Educational Resources and a Diverse Community to Achieve Climate Literacy Goals. Geological Society of America Meeting, Denver, CO.
- Sloan, V., **Gold, A.U.**, Buhr Sullivan, S., Oonk, D., Lynds, S., Ledley, T.S., Manduca, C. (2013): Reaching Middle and High School Teachers through Email Lists, Facebook, and Web Postings the Results of Sharing Clean Climate and Energy Online Teaching Resources. Geological Society of America Meeting, Denver, CO.
- Ledley, T.S., **Gold, A.U.** (2013): Climate Literacy and Energy Awareness Network (CLEAN). Supporting Members in Increasing Climate Literacy, Spring 2013 survey. CLEAN Network call, 9/24/13, (virtual presentation).
- Ledley, T.S., **Gold, A.U.**, Kirk, K., Grogan, M. (2013): Integration of the Energy Literacy Principles in the Climate Literacy and Energy Awareness Network (CLEAN) Portal. Presentation for Department of Energy 5/6/13 (virtual presentation).
- Gold, A.U.**, Buhr, S., Ledley, T.S. (2013): Teaching Climate and Energy: The CLEAN Collection of Peer-Reviewed Climate and Energy Learning Resources. NSTA Conference, San Antonio, TX.
- Randolph, G., Niepold, F., **Gold, A.U.**, Falcon, P., TeBockhorst, D., McLaughlin, J. (2013): Teaching Climate Science Through Data and Visualizations, presented at the NSTA Conference, San Antonio, TX.
- Gold, A.U.**, Ledley, T.S., Buhr, S.M., Manduca, C.A., Fox, S.P., Kirk, K., Grogan, M., Niepold, F., Carley, S., Lynds, S., Howell, C. (2012): Supporting Teachers in Climate Change Instruction – The Climate Literacy and Energy Awareness Network (CLEAN) Tool Kit. American Geophysical Union (AGU) Fall Meeting, San Francisco, CA (invited presentation).
- Buhr, S., **Gold, A.U.**, Kellagher, E., Ledley, T., Lynds, S. (2012): Supporting Teachers' Needs in Climate Education: Strategies to forestall controversy, develop knowledge and build community. [invited] American Geophysical Union Fall Meeting, San Francisco, CA.

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- Buhr, S., **Gold, A.U.**, Ledley, T., Lynds, S. (2012): Using Evaluation Studies to Understand Educator Needs, Practices and Strategies for Success in Climate Education. [invited] American Geophysical Union Fall Meeting, San Francisco, CA.
- Buhr, S., Ledley, T., **Gold, A.U.**, Manduca, C., Fox, S., Kirk, K., Grogan, M., Niepold, F., Lynds, S. (2012): Climate Literacy and Energy Awareness Network (CLEAN) – Supporting Teacher's Efforts to Prepare Students To Address Environmental Challenges. Geological Society of America Meeting, Charlotte, NC.
- Ledley, T., Buhr, S., **Gold, A.U.**, (2012): Teaching Climate and Energy well: New reviewed collection of digital teaching materials around climate and energy topics. National Science Teacher Association Conference, Indianapolis, IN.
- Haddad, N., McNeal, K.S., Ledley, T.S., Ellins, K., Bardar, E., Youngman, B., Dunlap, C., Libarkin, J., Lynds, S., Buhr, S., **Gold, A.U.** (2012): Earthlabs Workshops: Increasing Teachers' Understanding and Ability To Teach Climate Science. – Geological Society of America Annual Meeting, Charlotte, NC.
- Gold, A.U.** (2011): Resources for Educators: Climate Literacy and Energy Awareness Network (CLEAN). Colorado Foundation for Water Education - Colorado's Climate and Water Future, Lakewood, CO.
- Gold, A.U.**, Buhr, S. (2011): Teaching about Climate and Energy. Center for Multiscale Modeling of Atmospheric Processes (CLIMMAP) - Colorado Global Climate Conference, Fort Collins, CO.
- Gold, A.U.**, Buhr, S., Lynds, S. (2011): New Collection of Digital Teaching Materials on Climate and Energy Topics Teaching About Climate and Energy Topics. Colorado Science Conference, Denver, CO.
- Ledley, T.S.; McCaffrey, M.S.; **Gold, A.U.**; Buhr, S.M.; Manduca, C.A.; Fox, S.; Kirk, K.B.; Grogan, M.; Niepold, F.; Lynds, S.E.; Howell, C. (2011): Climate Literacy and Energy Awareness Network (CLEAN) - Supporting the Scientists and Citizens of Tomorrow. American Geophysical Union (AGU), San Francisco, CA.
- Ledley, T.S., McCaffrey, Mark S., **Gold, A.U.**, Buhr, Susan, Manduca, Cathryn, Fox, Sean P., Grogan, Marian, Kirk, Karin B., Niepold, Frank, And Howell, Cynthia, 2011-10-9: The Climate Literacy and Energy Awareness Network (Clean) – Facilitating Climate and Energy Literacy. Geological Society of America (GSA), Minnesota, MN, USA
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Climate Literacy and Energy Awareness Network (CLEAN): New collection of high-quality digital teaching materials on climate and energy science. Colorado Science Conference, Denver, CO.
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Climate Literacy and Energy Awareness Network (CLEAN): A rigorous peer-review process for building a new collection of high-quality digital teaching materials on climate and energy science. Geological Society of America Fall Meeting, Denver, CO.
- Ledley, T.S. & **Gold, A.U.** (2010): Climate Literacy and Energy Awareness Network Pathway – Summary of a Rigorous Review Process. NASA GCCE (Global Climate Change Education) Webinar for Principal Investigators.
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Excellent digital teaching materials – summary of a rigorous review process - Climate Literacy And Energy Awareness Network Pathway. Colorado Learning and Teaching with Technology Conference (COLTT), Boulder, CO.
- Gold, A.U.** (2010): Climate Literacy and Energy Awareness Project (CLEAN) – High Quality Climate and Energy Teaching Resources. “Inspiring Climate Change Excellence (ICEE) Workshop, Boulder, CO, Boulder, CO.
- Reuther, A.U.**, Stea, R.R., Gosse, J.C. & McDonald, F. (2007): Deglaciation of Nova Scotia: a chronostratigraphic approach, Atlantic Geoscience Society (AGS), Moncton, Canada.
- Reuther, A.U.** (2007): “The glacial chronology of the Southern Carpathians, Romania, constrained by 10Be exposure ages and pedological investigations” (Department of Earth Sciences, Dalhousie University, Mar 2007, Halifax, Canada)
- Reuther, A.U.** (2006): “Dating of a flooding event from ice-dammed lakes in the Russian Altai Mountains” Invited talk in the Bedford Institute of Oceanography, Dartmouth, Canada.
- Reuther, A.U.** (2006): “Reconstructing the Late Glacial and Last Glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians” Presentation: Quaternary Research Group, Dalhousie University, Halifax, Canada:
- Reuther, A.U.** (2006): “Climate and paleoclimate in the Andes with a focus on the transition zone”. Presentation at the Andes Research Group Workshop, Dalhousie University, Halifax, Canada.
- Reuther, A.U.**, Stea, R.R., Gosse, J.C. & McDonald, F. (2006): Deglaciation of Nova Scotia: a chronostratigraphic approach. First results. Atlantic Canada Ice Dynamics (ACID)-Workshop, Halifax, Canada.

Publication List – Anne U. Gold (Reuther)

- Förster, K., **Reuther, A.**, Fiebig, M., Strunk, H., & Heine, K. (2006). Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure dating (^{10}Be , ^{36}Cl) and radiocarbon ages. *Atlantic Geology*, Vol. 42(1).
- Reuther, A.U.**, Stea, R.R., Gosse, J.C., McDonald, F. (2007): Deglaciation of Nova Scotia - a chronostratigraphic approach. *Atlantic Geology*, Vol. 43, No. 1, p. 25.
- Reuther, A.U.**, Reitner, J.M, Ivy-Ochs, S., Herbst, P. (2006): From kinematics to dating the Sturzstrom deposit of Feld (Matsch, Eastern Tyrol/Austria). *Geophysical Research Abstracts* 8. 04947.
- Reitner, J., **Reuther, A.U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. & Draxler, I. (2006): The Sturzstrom event of Feld (Matsch / Eastern Tyrol / Austria). A forgotten Catastrophe during early human settlement in the Alps? Deutsche Quartär Vereinigung (DEUQUA) Conference, Bonn, Germany.
- Kubik, P.W. & **Reuther, A.U.** (2005): Attenuation of cosmogenic ^{10}Be production within the first 20 cm below a rock surface. *10th Accelerator Mass Spectrometry (AMS) Congress*, Lawrence Livermore California, USA.
- Reuther, A.U.**, Ivy-Ochs, S., Fiebig, M.C., Kubik, P.W. & Heine, K. (2005): Dating of the LGM: Attempts from the type-region of the Würmian in the South German Alpine Foreland and from the Central German Highlands. Subcommission on European Quaternary Stratigraphy (SEQS) Conference, Bern, Switzerland.
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Reconstructing the glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians and the paleoclimatic implications of the last glacial cycle constrained from surface exposure ages (^{10}Be) and pedological records. Subcommission on European Quaternary Stratigraphy (SEQS) Conference, Bern, Switzerland.
- Geiger, C., **Reuther, A.U.**, Urdea, P. & Heine, K. (2004): Constraining the Late Glacial history of the Valle Pietrele, Retezat Mountains, using GIS-based equilibrium line of altitude (ELA) modelling, supported by pedological field observation. *International Workshop on Alpine Geomorphology and Mountain Hazards, Fagaras Mountains, Rumania.*
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Reconstructing the Last Glacial and Late Glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians, using surface exposure dating with in-situ produced ^{10}Be . *International Workshop on Alpine Geomorphology and Mountain Hazards, Fagaras Mountains, Rumania.*
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Rekonstruktion der letztglazialen Vergletscherung des Valle Pietrele, Retezat Gebirge, Südkarpaten. Datierungen mit kosmogenem, in-situ produziertem ^{10}Be gestützt durch pedologische Untersuchungen. *Arbeitskreis (AK) für Geomorphologie Conference, Heidelberg, Germany.*
- Reuther, A.U.** & Heine, K. (2004): Vergletscherung des Bayerischen Waldes am Beispiel des Kleinen Arberseegletschers und erste Ergebnisse vom Isar-Loisach Gletscher- Datierungen mit in-situ produziertem, kosmogenem ^{10}Be . *DEUQUA Subkommission Alpenvorland und Quartär (AGAQ) Conference (04/04), Bern, Switzerland.*

Conference and Workshop Poster Presentations

- Ward, E., **Gold, A.U.**, Moon, T.A., Khan, A., Schoenemann, S., Olson, M., Thomson, L., Werner, A. (2023): Measuring the Impacts of Interactive Environments and Geographic Information Systems (GIS) on Student Learning of Polar Places and Spaces. AGU Fall meeting (poster presentation).
- Chandler, P., **Gold, A.U.**, Smead, J., Gordon, E., Gallison, C., Szameitat, P., Alvarez, M., Anstett, C., Heskett, C., McDermott, K. (2023): Human Rights and Climate Change in K-12 Classrooms: Educational resources developed for the RHRN Global Climate Summit. AGU Fall meeting (poster presentation).
- Boyd, K., Fiorile-Desranleau, G., **Gold, A.U.**, Niepold, F., Chandler, P., Christensen, A., Ochwat, N., Bruckner, M., Fox, S., Ledley, T.S. (2023): The Climate Literacy and Energy Awareness Network (CLEAN). AGU Fall meeting (poster presentation).
- Cassotto, R., Hill, A.F., **Gold, A.U.**, Mattheis, A., Schneider, B., Ward, E., Marin-Spiotta, E., Tiampo, K., Dryák-Vallies, M., Hastings, M.G., Jacquemart, M. (2023): FieldSafe: Training for Diverse and Inclusive Geoscience Teams – A New Course and Toolkit. AGU Fall meeting (poster presentation).
- Dryák-Vallies, M., **Gold, A.U.**, Markle, B., Batchelor, R. (2023): PSECCO: A Community Office for Supporting Early Career Scientists and Advancing Equity and Inclusion in the Polar Sciences. AGU Fall meeting (poster presentation).
- Fiorile-Desranleau, G., Pennycook, D., **Gold, A.U.** (2023): Communication Planning for a Science Outreach and Education Program: Defining a Strategic Communication Plan for Education and Outreach Activities at a large environmental research institute. AGU Fall meeting (poster presentation).
- Gold, A.U.**, Hatheway, B., Mitchell, B., Lauer, C., Rongstad Strong, B., Gangeness, B., Throntveit, T and E. Snode-Breneman (2023): Effective Strategies for Designing and Touring Traveling Exhibits around Climate Change and Water Topics. Association for Science and Technology Centers 2023 Annual Conference.
- Marsh, C.L., Rongstad, B., Schaecher, A., **Gold, A.U.**, Ratcliffe, C., Littrell, M., Okochi, C., Boyd, K., Maryboy, N.C., Begay, D.H., Stein, J., Valdez, S., Pennycook, D. & We are Water NSF AISL Project team (2022): Inclusive and culturally responsive science communication - How social media can inspire awareness, connection, and community through a place-based education project, American Geophysical Union Meeting, Chicago, December 2022, e-poster presentation.
- Khan, A., Schoenemann, S.W., Moon, T.A., **Gold, A.U.**, Ward, E.G., Pennycook, D, Lei, S. (2022): Engaging students in Polar Science: New undergraduate-level curriculum combines polar field data, 360-degree virtual experiences and GIS to transport students to Greenland, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Dryak, M.C, Batchelor, R.L., **Gold, A.U.**, Markle, B. (2022): PSECCO: A New Community Office for Supporting Early Career Scientists and Advancing Equity and Inclusion in the Polar Sciences, , American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Quarderer, N., Balch, J., Nagy, R.C., **Gold, A.U.**, Culler, E., Herwehe, L., Korinek, N., Halama, K., Sanovia, J., Tinant, J., Parr, D, Giggane, E., Logan, J., Travis, W., Wasser, L. (2022): The Earth Data Science Corps & ESIIIL Stars Programs: Models for Learning and Teaching Environmental Data Science Skills. , American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Tiampo, K.F., Hill, A.F., Jacquemart, M., Cassatto, R., **Gold, A.U.**, Dryak, M.C., Ward, E.G. (2022): FieldSafe: Building Inclusive and Safe Field Teams, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Fiorile, G., Boyd, K., **Gold, A.U.**, Niepold, F., Crim, H. & ACCELS planning team (2022): The Accelerating Climate Capacity, Engagement, and Leadership Summit (ACCELS) convened by CLEAN, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Balch, J., Nagy, R.C., Amaral, C, Culler, E., **Gold, A.U.**, Iglesias, V., Montelioni, Cl, Parker, J.N., Rattling Leaf, J., Sanovia, J., Stavros, N, Sullivan, S.M., Swetnam, T.L., Tuff, T., Quarderer, N. (2022): The Environmental Data Science Innovation & Inclusion Lab (ESIIIL): a next-generation NSF data synthesis center, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Boyd, K., Fiorile, G., **Gold, A.U.**, Niepold, F., Christensen, A., Ochwat, N, Bruckner, M., Fox, S., Kirk, K.B., Ledley, T.S. (2022): The Climate Literacy and Energy Awareness Network (CLEAN), American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Okochi, C., Christensen, A., **Gold, A.**, Batchelor, R., Marsh, C. (2021): Evolution of an Evaluation Plan: Towards a Deeper Understanding of Students’ Trajectories in the Research Experience for Community College (RECCS) Program. *American Geophysical Union Fall Meeting*, New Orleans, virtual

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- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N, Christensen, A., Chandler, P., Bruckner, M., Kirk, K., Ledley, T. (2021): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*, New Orleans, virtual
- Quaderer, N., Wasser, L., Herwehe, L, Montano, P., **Gold, A.U.**, Korinek, N. (2021): Assessing Students' Self-Perceived Growth in Python Skills, Data Science Skills, Science Communication Skills, Science Practices & Science Identity: An Examination of the Earth Data Science Corps 2020-2021. *American Geophysical Union Fall Meeting*, New Orleans, virtual
- Griffith, J., Harden, L, **Gold, A.**, Kay, J. (2020): On board with MOSAiC: how an Arctic research expedition can engage students in Earth's systems thinking. American Geophysical Union Fall Meeting. virtual.
- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N, Christensen, A., Morton, A., Chandler, P., Bruckner, M., Manning, C., Ledley, T. (2020): The Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union Fall Meeting. virtual.
- Wasser, L., Herwehe, L, Montano, P., **Gold, A.**, Quaderer, N., Biggane, E., Guinn, J., Sanovia, J., Parr, D., Korinek, N. (2020): Lowering Barriers to Teaching Earth Data Science to Undergraduates in Historically Underrepresented Communities Using a Virtual, Cloud-Compute Supported, Student-Directed Learning Environment. American Geophysical Union Fall Meeting. virtual.
- Schloesser, K., Christensen, A., Leckey, E., **Gold, A.**, Littrell, M., Boyd, K., Okochi, C., Morton, A. (2020) Creating Authentic Opportunities for Youth to Build Resilience to Environmental Hazards in Rural Colorado. American Geophysical Union Fall Meeting. virtual.
- Boyd, K., **Gold, A.**, Niepold, F., Lynds, S, Morton, A., Bruckner, M., Manning, C., Chandler, P., Ledley-Shapiro, T., Kirk, K. (2019): The Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union Fall Meeting, San Francisco, CA
- Morrison, A., **Gold, A.**, Kay, J. (2019): Increasing student engagement by incorporating authentic climate science research in the classroom. American Geophysical Union Fall Meeting, San Francisco, CA
- Niepold, F., Spitzer, W., Kretser, J., Poppleton, K., Scowcroft, G., Farooque, M., Valetta, R., Arditi-Rocha, Y., **Gold, A.** et al. (2019): Increasing Our Capacity to Address Climate Change - Developing a Model for Effective Regional Climate Literacy Networks. American Geophysical Union Fall Meeting, San Francisco, CA
- Curry Minaya, R., **Gold, A.**, Briggs J., Smith, L, Anderson, S. (2017): Community College Student Success: Outcomes from a 2YC-focused Student Summer Research Program. *CIRES Rendezvous*, Boulder, CO.
- Leckey, E., **Gold, A.**, Gonzáles-Basco, I., Boyd, K., Taylor, J. (2018): Climate Science Engagement Opportunities for Teachers and Students in Puerto Rico. *CIRES Rendezvous*, Boulder, CO.
- Curry Minaya, R., **Gold, A.**, Briggs J., Smith, L, Anderson, S. (2018) Community College Student Success: Outcomes from a 2YC-focused Student Summer Research Program. *Geo REU Principal Investigator Meeting*, Boulder, CO.
- Boyd, K., **A. Gold**, J. Taylor, S. Lynds, A. Morton, F. Niepold, M. Bruckner, S. Fox, K. Kirk, T. Ledley-Shapiro, C. Manning (2018): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*, Washington, D.C.
- Gold, A.U.**, Leckey, E., Littrell, M., Okochi, C., Lynds, S., Wise, S. (2018): Lens on Climate Change. Inspiring youth to learn about local impacts of climate change through filmmaking- a transformative experience. *American Geophysical Union Fall Meeting*, Washington, D.C.
- Leckey, E., **Gold, A.**, Boyd, K., Taylor, J., Littrell, M., Morton, A. (2019): Empowering Rural Communities to increase Sustainability and Resilience through Disaster Planning Games. *National Council of the Environment*, Washington, DC
- Boyd, K., **A. Gold**, J. Taylor, S. Lynds, A. Morton, F. Niepold, M. Bruckner, S. Fox, K. Kirk, T. Ledley-Shapiro, C. Manning (2019): The Climate Literacy and Energy Awareness Network (CLEAN). *CIRES Rendezvous*, Boulder, CO
- Gold, A. U.**, Boyd, K., Leckey, E. H., Littrell, M., Lynds, S. E., Curry, R. M., Morton, A., Okochi, C., Schloesser, K., Taylor, J. (2019): How CIRES Education & Outreach can support you and broaden the impact of your science. *CIRES Rendezvous*, Boulder, CO.
- Gold, A.**, Schloesser, K., Shupe, M., Human, K., Morris, S., (2019): Participate in a Year in Arctic on board a research vessel from Anywhere - Coordinating Education, Outreach and Communication of the MOSAiC expedition. *CIRES Rendezvous*, Boulder, CO.
- Curry, R.M., **Gold, A.U.**, Briggs, J., Smith, L. (2018): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, Geo REU PI meeting, Boulder, CO.

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- Morrison, A., Kay, J.E., **Gold, A.U.**, McNeal, K., Soltis (2018): Using Galvanic Skin Sensors to Measure Engagement and Learning Outcomes During Teacher Workshops and Undergraduate Classes about Climate Science., Earth Educators' Rendezvous, Lawrence, KS.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2018): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Boyd, K., Leckey, E.H., Littrell-Baez, M., Lynds, S.E., Minaya, R., Morton, A., Okochi, C., Taylor, J. (2018): How CIRES Education & Outreach can support you and broaden the impact of your science. CIRES Rendezvous, University of Colorado Boulder, May.
- Morrison, A., **Gold, A.U.**, Soltis, N., McNeal, K., Kay, J.E. (2017): Measuring Engagement and Learning Outcomes During a Teacher Professional Development Workshop about Creative Climate Communication. American Geophysical Union Fall Meeting, New Orleans.
- Gold, A.U.**, Kay, J., Morrison, A., McFerrin, B. (2017): Increasing Student Learning about Climate Science – Are Polar Bears an Effective Emotional Hook? Center for STEM Learning, iSTEM Meeting, University of Colorado Boulder, September.
- Littrell-Baez, M., Clark, J., Leckey, E., **Gold, A.**, Wise, S., Lynds, S. (2017): Science and Storytelling through Film: A Case Study on Native American Students in the Lens on Climate Change Summer Workshop. American Indian Science and Engineering Society Meeting, Denver, CO.
- Gold, A.**, S. Sullivan, J. Taylor, S. Lynds, F. Niepold, M. Grogan, S. Fox, T. Ledley (2017): The Climate Literacy and Energy Awareness Network (CLEAN), Earth Educators' Rendezvous, Albuquerque, NM.
- Sullivan, S., **A.U. Gold**, C.L.B. Manning, J. Taylor, K. Kirk, M. Bruckner, F. Niepold, S. Lynds, S. Fox, T. Ledley (2017): NGSS with the Climate Literacy and Energy Awareness Network (CLEAN) Collection. Geological Society of America, Seattle, WA.
- Gold, A.U.**, Kay, J. E., Morrison, A., MacFerrin, B. (2017): Increasing Student Learning about Climate Science: Are Polar Bears an Effective Emotional Hook? CIRES Rendezvous, Boulder, CO.
- Lynds, S., Sullivan, S., **Gold, A.U.**, Morton, A. (2017): Evaluating Federal Agency Web Portals Using the Quality of Relationship Metric, CIRES Rendezvous, Boulder, CO.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2017): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, CIRES Rendezvous, Boulder, CO.
- Leckey, E., **Gold, A.U.**, Littrell-Baez, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R. Williams, V. (2017): Engaging Diverse Secondary Students in Climate Science through Filmmaking in the Lens on Climate Change Program, CIRES Rendezvous, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Littrell-Baez, M.K., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2017): Working with the CIRES Education and Outreach Group, CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., Grogan, M., **Gold, A.U.**, Sullivan, S.B., Fox, S., Manduca, C.A., Niepold, F. (2016): Using the CLEAN Collection to Build NGSS Aligned Earth System Investigations. Geological Society of America, Denver, CO.
- Gold, A.U.**, Leckey, E., Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R., Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. ITEST PI-meeting, Arlington, VA
- Morrison, A.L., Kay, J.E., **Gold, A.U.**, MacFerrin, B., McNeal, K. (2016): Assessing the use of polar bear hooks in learning climate science. ATOC Poster Session, Boulder, CO.
- Gold, A.U.**, Leckey, E., Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R., Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. European Geophysical Union Meeting, Vienna, Austria
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2016): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, CIRES Rendezvous, Boulder, CO.
- Leckey, E., **Gold, A.U.**, Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R. Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Filmmaking in the Lens on Climate Change Program, CIRES Rendezvous, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2016): Working with the CIRES Education and Outreach Group, CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., **Gold, A.U.**, Niepold, F., Grogan, M., Sullivan, S., Fox, S., Manduca, C. (2015): The Climate Literacy and Energy Awareness Network (Clean) Project. Geological Society of America Meeting, Baltimore, MD.

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- Haddad, N., Ellins, K., Ledley, T., Lynds, S., **Gold, A.U.** (2015): EarthLabs: A Resource for Earth System Education. Earth Educators' Rendezvous Boulder, Boulder, CO.
- Ledley, T.S., **Gold, A.U.**, Grogan, M., Fox, S., Niepold, F., Sullivan, S.B., Manduca, C. (2015): The Climate Literacy and Energy Awareness Network (CLEAN). Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, E. Leckey, M. Woods, S. Wise, L. Smith, D. Oonk, S. Lynds, K. Cozetto, D. Alweis, M. Boykoff, B. Osnes, R. Safran, V. Williams, (2016): Engaging Diverse Secondary Students in Climate Science through Videography. ITEST PI-meeting, Arlington, VA
- Leckey, E., **Gold, A.U.**, Wise, S., Littrell-Baez, M., Lynds, S., Oonk, D., Smith, L., Cozetto, K., Alweis, D., Forsyth, S., Carpenter, E. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., Grogan, M., **Gold, A.U.**, Sullivan, S., Fox, S., Manduca, C.A., Niepold, F. (2016): Using the Clean Collection to Build NGSS Aligned Earth System Investigations. Geological Society of America, Denver, CO.
- Smith, L., **Gold, A.U.**, Anderson, S.P., Taylor, J.L., Fierer, N., Batchelor, R. (2016): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Morrison, A.L., Kay, J.E., **Gold, A.U.**, MacFerrin, B., McNeal, K., 2016-12-0: Assessing the use of polar bear hooks in learning climate science. ATOC Poster Session, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2016): Working with the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R., Monday, B., Fierer, N., Rangwala, I. and McCutchan, J. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Oonk, D., **Gold, A.U.**, Cozetto, K., Avery, K., Bergren, J., and Nakai, J. (2015): Tribe's Eye Project. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Kravitz, K., Oonk, D., Mueller, K., Budd, D., (2014): Investigating the Impact of Spatial Reasoning Training on Skill Development, Retention, and the Gender Gap in Geology. iSTEM Meeting, University of Colorado, Boulder, CO.
- Lynds, S., **Gold, A.U.**, McNeal, K.S., Libarkin, J., Sullivan, S.B., Ledley, T., Haddad, N., Ellins, K. (2013): Investigating Climate Science Misconceptions Using a Teacher Professional Development Workshop Registration Survey. American Geophysical Union Meeting, San Francisco, CA.
- Niepold, F., Ledley, T.S., **Gold, A.U.**, Breslyn, W.G., Carley, S. (2013): Improving the Nation's Climate Literacy Through the Next Generation Science Standards. Fall American Geophysical Union Meeting, San Francisco, CA.
- Grogan, M., Niepold, F., Ledley, T.S., **Gold, A.U.**, Breslyn, W.G., Carley, S. (2013): Improving the Nation's Climate Literacy through the Next Generation Science Standards, American Geophysical Union Fall Meeting, San Francisco, CA.
- Ledley, TS, **Gold, A.U.**, Sullivan, S.B., Manduca, C.A., Fox, S., Kirk, K., Grogan, M., Niepold, K. (2013): Climate Literacy and Energy Awareness Network (CLEAN) – Providing Reviewed Educational Resources to Enhance the Effective Use of Earth Science Data and Knowledge. ESIP Federation Meeting, Chapel Hill, NC.
- Gold, A.U.**, Harris, S. (2013): Studying effective approaches of teaching the Greenhouse Effect. iSTEM event, University of Colorado, Boulder, CO.
- Gold, A.U.**, Buhr, S.S., Kellagher, E., Morrison, D., Lynds, S.E. (2013): Inspiring Climate Education Excellence (ICEE): Navigating climate instruction in the secondary science classroom, Triagency PI Meeting in Washington, DC.
- Gold, A.U.**, Buhr, S.M., Ledley, T.S., Manduca, C.A., Niepold, F., Lynds, S.E. (2013): Teaching tools offered by the Climate Literacy and Energy Awareness Network (CLEAN). CIRES Rendezvous, Boulder, CO.
- Buhr, S., Arthur, T., Feld, J., **Gold, A.U.**, Lynds, S., McCaffrey, M., Morton, E., Smith, L. (2011): Highlights from the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO
- Gold, A.U.** McCaffrey, M.S., Buhr, S.M., Lynds, S.E. (2011): The Climate Literacy and Energy Awareness (CLEAN) collection of peerreviewed high-quality digital teaching materials. CIRES Rendezvous 2011, Boulder, CO
- Gold, A.U.**; Ledley, T.S.; Kirk, K.B.; Grogan, M.; McCaffrey, M.S.; Buhr, S.M.; Manduca, C.A.; Fox, S.; Niepold, F.; Howell, C.; Lynds, S.E. (2011): Addressing climate and energy misconceptions – teaching tools offered by the Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union (AGU), San Francisco, CA, USA

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- Ledley, T.S., Grogan, M., Lockwood, J., Dunlap, C., Buhr, S.M., **Gold, A.U.**, McCaffrey, M.S., Lynds, S.E., Manduca, C.A., Fox, S., Kirk, K.B., Niepold, F., Howell, C. (2011): Climate Literacy and Energy Awareness Network (CLEAN). Federation of Earth Science Information Partners, Santa Fee, NJ.
- Ledley, T.S., McCaffrey, M.S., Buhr, S.M., **Gold, A.U.**, Lynds, S.E., Manduca, C.A., Fox, S., Niepold, F., Howell, C. (2010): Climate Literacy and Energy Awareness Network (CLEAN) Pathway - Teaching Climate and Energy Science: Teaching materials, Professional Development, Social Networking. iSTEM Meeting at CU Boulder, University of Colorado, Boulder, CO.
- Ledley, T.S., Grogan, M., Lockwood, J., Comer, C., McCaffrey, M.S., Buhr, S.M., **Gold, A.U.**, Lynds, S.E., Manduca, C.A., Fox, S., Kirk, K., Iverson, E., Niepold, F., Howell, C., Carley, S. (2010): Climate Literacy and Energy Awareness Network (CLEAN) Pathway - Teaching Climate and Energy Science: Teaching materials, Professional Development, Social Networking. National Science Digital Library (NSDL) Annual Meeting, Washington, D.C.
- Buhr, S.M., Arthur, T., **Gold, A.U.**, Lynds, S.E., McCaffrey, M.S., Smith, L., Wise, S. (2010): Highlights from the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO.
- Reuther, A.U.**, Ivy-Ochs, S., Fiebig, M., Kubik, P.W. & Heine, K. (2007): Dating the LGM: attempts from the type-region of the Würmian glaciation in the southern German Alpine Foreland and from the Central German Highlands INQUA 2007 - 17th International Congress of the Union of Quaternary Research, Cairns, Australia.
- Heine, K., **Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Kubik, P.W., Geiger, C., Schlaak, N. & Niller, H.-P. (2007): Timing of Late Pleistocene Mountain glaciation using cosmogenic in situ ¹⁰Be: the southern Carpathians and the Bavarian Forest compared to the Bavarian Alpine Foreland and northern Germany. - 17th International Congress of the Union of Quaternary Research, Cairns, Australia.
- Urdea, P., **Reuther, A.U.**, Heine, K., Ivy-Ochs, S., Kubik, P.W. & Geiger, C. (2007): New data concerning Quaternary glaciation in the Transylvanian Alps (Romania). - 17th International Congress of the Union of Quaternary Research, Cairns, Australia.
- Reitner, J. M., **Reuther, A. U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. W. & Draxler, I., (2006): The sturzstrom event of Feld (Matsch/Eastern Tyrol/Austria): A forgotten catastrophe during early human settlement in the Alps? 150 Years of Neanderthal Discoveries: Early Europeans - continuity & discontinuity Conference, Bonn, Germany.
- Reuther, A.U.**, Reitner, J., Ivy-Ochs, S. & Herbst, P. (2006): From kinematics to dating – the sturzstrom deposits of Feld (Matsch, Eastern Tyrol, Austria). European Geoscience Union (EGU) Conference, Vienna, Austria.
- Förster, K., **Reuther, A.U.**, Fiebig, M.C., Strunk, H. & Heine, K. (2006): Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure dating (¹⁰Be, ³⁶Cl) and radiocarbon ages. European Geoscience Union (EGU) Conference, Vienna, Austria.
- Förster, K., **Reuther, A.U.**, Fiebig, M.C., Strunk, H. & Heine, K. (2006): Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure and radiocarbon ages. Atlantic Geoscience Society (AGS) Conference, Wolfville, Nova Scotia, Canada.
- Geiger, C., **Reuther, A. U.**, Urdea, P. & Heine, K. (2004): GIS-basierte Modellierung der Gletschergleichgewichtslinie (ELA) des Spätglazials im Valle Pietrele, Retezat Gebirge, Südkarpaten. Arbeitskreis (AK) für Geomorphologie Conference, Heidelberg, Germany.
- Reuther, A.U.**, Gosse, J.C., Ivy-Ochs, S., Fiebig, M.C., Kubik, P.W., Yang, G. & Heine, K. (2004): Dating of the LGM: Attempts from the type-region of the Würmian in the South German Alpine Foreland and from the Central German Highlands. International Geological Congress (IGC) Florence, Italy.