

Kathryn Boyd

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Professional Profile:

- Experienced professional with over ten years of experience developing, implementing and delivering quality scientific educational programs engaging various ages
- Over 13 years of scientific research experience; eight years focused on science educational research and evaluation
- Utilize computer software including Excel, SPSS, and IDL to collect and analyze data
- Recipient of Graduate Teaching Certificate from the Institute for Teaching & Learning
- Well-developed skills in writing and delivering scientific information at professional conferences and in scientific publications
- Knowledge of educational survey instruments, development and delivery for evaluation and change implementation
- Published author with four papers in peer-reviewed journals and two published as the first author

Current position

Cooperative Institute for Research in Environmental Sciences (CIRES), University of Colorado, Boulder, CO
Education and Outreach Associate; Evaluation and Educational Research since May 2018

- Manages CLEAN, a national, award-winning, NOAA-funded climate change education project (cleanet.org)
- Evaluates multiple educational and outreach projects and assists with research efforts
- Supervises students and project coordinators
- Leads diversity and inclusion as well as research and evaluation coordination conversations and efforts

Education

Colorado State University, Fort Collins, CO

Master of Science, Ecology December 2016

- Interdisciplinary program focused on science educational outreach and communication
- GPA: 4.0
- Earned Graduate Teaching Certificate
- Selected to serve on multiple graduate school committees

Thesis: Investigating discourse dynamics in an atmospheric science educational outreach program

Master of Science, Atmospheric Science December 2011

- Classes and research focused on climate and hydrologic effects of pollution
- GPA: 4.0

Thesis: Regional aerosol effects on precipitation: An observational study

University of Washington, Seattle, WA

Bachelor of Science, Atmospheric Science August 2007

- Minor: Applied Mathematics
- Graduated Magna cum Laude with College Honors
- Earned multiple department academic achievement awards
- Inducted to Phi Beta Kappa Honors Society
- Earned multiple Dean's List statuses
- GPA: 3.88

Research Project: Analyzing statistical errors of ensemble forecasts using Matlab

Research Experience

Exploratorium, San Francisco, CA

Research & Evaluation Coordinator

April 2017-September 2018

- Evaluated exhibits and programs – collected and analyzed qualitative and quantitative data and wrote evaluation reports
- Coordinated research and evaluation efforts for large projects funded by NSF and IMLS grants, including helping to collect and analyze data, as well as write papers, technical reports, and proposals
- Developed and managed a large study to help understand the museum audience through exit surveys
- Tested novel survey methods, designed an info graphic-style report to communicate findings, and wrote many technical reports on data that was collected
- Managed IT for the department, including overseeing software used as well as multiple complex camera and audio recording systems and training others to use these systems and software

Colorado State University, Fort Collins, CO

Research Assistant, School of Education & STEM Center

February 2013-November 2015

- Researched and evaluated science education and outreach projects funded by large NSF grants
- Collected and analyzed qualitative and quantitative data and communicated results in written reports and through presentations
- Wrote research plans and developed data collection instruments for education research projects
- Solicited consent, managed IRB documents, conducted interviews, and managed audio data for evaluation projects

Research Assistant, Graduate Degree Program in Ecology

August 2013-December 2016

- Research focused on how science is communicated by scientists through education/outreach efforts and the subsequent discourse in which K-12 students engage during outreach
- Recruited teachers and their students to participate in study
- Used thematic and discourse analysis to study how the facilitator interacts and communicates information about science with students
- Performed statistical analysis using SPSS and Excel of pre/post surveys to understand the impacts on student knowledge of the nature of science

Research Assistant, Department of Atmospheric Science

August 2008 – March 2012

- Utilized data to analyze aerosol effects on clouds and precipitation
- Statistical analysis using IDL and Fortran with data from ground-based cloud radar, meteorological instrumentation, and satellites to draw conclusions and create report

Teaching and Outreach Experience:

Colorado State University, Fort Collins, CO

Teaching Assistant, School of Education

January – May 2015

- Assisted students with introductory statistics course concepts
- Facilitated help sessions and proctor quizzes and exams
- Point of Pride: Individual student increased performance by a letter grade after attending multiple help sessions

Outreach Specialist Volunteer, Little Shop of Physics

February 2009 – April 2016

- Assist with atmospheric science displays and exhibits at annual open house for community
- Teach sections of weather and climate workshop and atmospheric science college course for teachers
- Assist in all aspects of delivering high-quality hands-on physics-based science experiments for youth of all ages

- Work with students from various backgrounds to gain a deeper meaning and comprehension of science experiments
- Design and implement instruction lessons for teachers to help them understand weather and climate principles and how to implement into a classroom learning environment

Teaching Assistant, Department of Atmospheric Science July 2009 – July 2010

- Instructor for undergraduate atmospheric science course
- Developed curriculum, materials and assignments
- Developed successful interactive methods of communicating basic weather and climate scientific principles

Fort Collins Museum of Discovery, Fort Collins, CO

Summer Camp Instructor Summers 2014 and 2015

- Instructed summer science camp for grades K-2
- Evaluated summer camps and provided feedback for improving the program

Education Volunteer October 2012 – April 2016

- Assisted with guest services and education programs
- Aided with development of science basics training sessions for volunteers

Colorado Climate Center/CoCoRaHS Program, Fort Collins, CO

Education and Outreach Volunteer March 2012 – April 2016

- Assisted with classroom and festival presentations

Education and Outreach Coordinator Assistant May – November 2012

- Assisted with campaign to introduce rain gauges into Colorado schools
- Presented to students of all ages in classrooms and water festival on various topics
- Recruited and trained over 50 teachers and their students to participate in the citizen science rain gauge network
- Aided in the development of marketing materials which increased school participation

University of Colorado, CIRES, Boulder, CO

Climate 101 Online Course Consultant August 2012 – May 2013

- Provided professional consultation services in the design and implementation for an online course for formal and informal educators
- Developed a webinar on the hydrological cycle and climate and presented online for participants

CIRA, Fort Collins, CO

Education and Outreach Volunteer March 2012 – May 2013

- Assisted with meteorological displays and satellite exhibits at various community events educating the public on climate matters

University of Washington, Seattle, WA

Education and Outreach Program Volunteer, Dept. of Atmospheric Science November 2006 – June 2007

- Performed school and science fair presentations on Atmospheric Science principles

Other Employment

University of Washington, Seattle, WA

Student Building Manager, Husky Union Building July 2005 – September 2007

- Hired, trained, and supervised building staff and successfully delivered events of all sizes

Lead Office Assistant, Husky Union Building

January 2004 – February 2008

- Provided excellent customer service to on and off campus groups ensuring events were successful
- Performed administrative and clerical tasks; trained in invoicing and billing
- Supervised colleagues and reviewed work

Publications

- Boyd, K.J.**, Okochi, C., Littrell, M.K., Batchelor, R.L., Gold, A.U., & Leckey, E. (2021). Career implications for college student mentors through role in a climate film outreach program for adolescents. *International Journal of Science Education, Part B: Communication and Public Engagement*. doi: 10.1080/21548455.2021.1996656.
- 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. doi: 10.1080/10899995.2021.1964319.
- Gold, A.U., Rose, A., Forsythe, S., & **Boyd, K.J.**, (In review). Creative Evaluation to Improve your Programming - Practical Tools and Tips for Evaluating Broader Impact Programs. In L.A. Van Egeren & S. Renoe (Eds.), *The Handbook of Broader Impacts* (20pp). Michigan State University Press.
- Boyd, K.J.**, Balgopal, M.M., & Birner, T. (In review). Exploring the Sky: Investigating discourse dynamics in an atmospheric science educational outreach program. *International Journal of Science Education*.
- Trott, C.D., Sample McMeeking, L.B., Bowker, C.L., & **Boyd, K.J.** (2020). Exploring the long-term academic and career impacts of undergraduate research in geoscience: A case study. *Journal of Geoscience Education*, 68(1), 65-79. doi:10.1090/10899992.2019.1591146.
- Boyd, K.** (2016) Outreach as a unifying concept in science education and science communication (Technical paper literature review). Center for Advancement of Informal Science Education, www.informalscience.org.
- Sample McMeeking, L.B., Weinberg, A.E., **Boyd, K.J.**, & Balgopal, M.M. (2016). Student perceptions of interest, learning, and engagement from an informal traveling Science museum. *School Science and Mathematics*, 116(5), 253-264. doi: 10.1111/ssm.12176.
- Boyd, K.**, Balgopal, M., & Birner, T. (April, 2016). Exploring the sky: Investigating discourse dynamics in an atmospheric science educational outreach program. Paper presented at the National Association for Research in Science Teaching Annual International Conference. Baltimore, MD.
- Sample McMeeking, L.B., Weinberg, A.E., & **Boyd, K.J.** (April, 2015). Participatory action research experiences for undergraduates. Paper presented at the annual meeting of the American Educational Research Association. Chicago, IL.
- Boyd, K.J.**, & Kummerow, C.D. (2012). Regional aerosol effects on precipitation: An observational study. M.S. thesis, Department of Atmospheric Science, Colorado State University, 95 pp.

Oral Presentations

- Boyd, K.**, Fiorile, G., Gold, A., Christensen, A., Niepold, F., Fox, S., Bruckner, M., Ochwat, N., Ledley, T., & Kirk, K. (January 2022). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the American Meteorological Society Annual Meeting. Virtual & Houston, TX.
- 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. (December 2021). Community Voices and Collaborative Partnerships Inform Development of Informal STEAM Education Experiences. Presentation at the American Geophysical Union Fall Meeting. Virtual & New Orleans, LA.
- Littrell, M., Schloesser, K., **Boyd, K.**, Christensen, A., & Gold, A. (December 2021). Understanding How Different Learning Environments and Levels of Community Engagement Empower Youth to Build Community Resilience to Environmental Hazards in Rural Colorado. Presentation at the American Geophysical Union Fall Meeting. Virtual & New Orleans, LA.

- Boyd, K.** (October 2021). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. Virtual.
- (Invited) Boyd, K.** (October 2021). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the North American Association for Environmental Education Annual Conference. Virtual.
- Boyd, K.** (July 2021). *How the Climate Literacy and Energy Awareness Network (CLEAN) and CIRES E&O Can Support Your Climate Teaching*. Presentation at the Climate Generation Climate Change Education Summer Institute. Virtual.
- Boyd, K.** (July 2021). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the UMASS Lowell Climate Change Professional Development Workshop. Virtual.
- Montano, P., **Boyd, K.**, Valdez, S., & Stein, J. (July 2021). *Partners and Communities Inspire Shifts in Evaluation and Research Practice*. Presentation at the Visitor Studies Association Conference. Virtual.
- (Invited) Boyd, K.** (May 2021). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the Reading and Writing Project presents NGSS, Science Literacies, and Activism: A Science, Education, and Climate Change Institute: Grades 3-12. Virtual.
- Boyd, K.** (February 2021). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. 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. (January 2021). *A decade of climate literacy - The Climate Literacy and Energy Awareness Network (CLEAN) turns 10*. Presentation at the American Meteorological Society Annual Meeting. Virtual.
- Boyd, K.**, Okochi, C., Littrell, M., Batchelor, R., Gold, A., & Leckey, E. (December 2020). *Impacts on College and Graduate Student Mentors from Guiding Secondary Students in a Community-based Climate Change Outreach Program*. Presentation at the American Geophysical Union Fall Meeting. Virtual.
- (Invited) Schloesser, K.**, Leckey, E., Christensen, A., Gold, A., Okochi, C., **Boyd, K.**, Littrell, M., & Morton, A. (December 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*. Presentation at the American Geophysical Union Fall Meeting. Virtual.
- Montano, P., Gold, A.U., Leckey, E., **Boyd, K.**, Okochi, C., Littrell, M., Okochi, C., Maryboy, N., LaConte, K., Newman, N., Valdez, S., & Stein, J. (December 2020). *We Are Water - Community Perspectives at the Center of Designing Informal STEM Education Experiences About Water*. Presentation at the American Geophysical Union Fall Meeting. Virtual.
- Gold, A.U., Leckey, E., Schloesser, K., Littrell, M., Okochi, C., **Boyd, K.**, & Montano, P. (December 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*. Presentation at the American Geophysical Union Fall Meeting. Virtual.
- Littrell, M., Maryboy, N., Begay, D., Valdez, S., Stein, J., Gold, A., Montano, P., **Boyd, K.**, & Okochi, C. (December 2020). *The Yucca Plant as a Model for Program Development in the "We are Water" Traveling Library Exhibit in the Four Corners Region*. Presentation at the GEO Indigenous Summit 2020. Virtual.
- Boyd, K.**, & Gold, A. (November 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the Colorado Science Conference. Virtual.
- Boyd, K.** (October 2020). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. Virtual.
- Boyd, K.**, & Gold, A. (February 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the Denver Public Schools Professional Development Days. Denver, CO.
- Boyd, K.** (February 2020). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. Virtual.
- (Invited) Boyd, K.**, Gold, A., Littrell, M., Leckey, E., Morton, A., Schloesser, K., & Okochi, C. (December 2019). *HEART Needs Assessment: Colorado Teacher's Experience In and Needs for Teaching about Natural Hazards*

- and Community Resilience*. Presentation at the American Geophysical Union Fall Meeting. San Francisco, CA.
- Leckey, E., Gold, A., **Boyd, K.**, Schloesser, K., Morton, A., & Littrell, M. (December 2019). *Empowering youth to envision community resilience actions through scenario-based natural hazard game*. Presentation at the American Geophysical Union Fall Meeting. San Francisco, CA.
- Boyd, K.**, & Gold, A. (November 2019). *CLEAN & NGSS: Climate and Energy Resources Supporting Three-Dimensional Learning*. Presentation at the Colorado Science Conference. Denver, CO.
- Boyd, K.**, & Gold, A. (October 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at the Denver Public Schools Professional Development Days, Denver, CO.
- Littrell, M.K., **Boyd, K.**, Bukartek, J., Taylor, J., & Schloesser, K. (October 2019). *Empowering Colorado youth to contribute to their community's resilience to natural hazards*. Presentation at the Engagement Scholarship Consortium Annual Meeting. Denver, CO.
- Boyd, K.** (October 2019). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. Virtual.
- (Invited) Boyd, K.**, & Gold, A. (September 2019). *Climate Literacy Education: Barriers, Successes, and Future Work*. Presentation at the Geological Society of America Annual Meeting. Phoenix, AZ.
- Boyd, K.**, & Gold, A. (August 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation at Denver Public Schools Professional Development Days. Denver, CO.
- Boyd, K.** (February 2019). *Introduction to the Climate Literacy and Energy Awareness Network (CLEAN)*. Presentation for the CLEAN Webinar Series. Virtual.
- Boyd, K.**, & Gold, A. (November 2018). *CLEAN & NGSS*. Presentation at the annual Colorado Science Conference. Denver, CO.
- Boyd, K.**, Balgopal, M., & Birner, T. (April, 2016). *Exploring the sky: Investigating discourse dynamics in an atmospheric science educational outreach program*. Paper presented at the National Association for Research in Science Teaching Annual International Conference. Baltimore, MD.
- Sample McMeeking, L.B., Trott, C.D., **Boyd, K.J.**, & Bowker, C.L. (December, 2015). *Long-term academic and career impacts of undergraduate research: Diverse pathways to geoscience careers following a summer atmospheric science research internship*. Presentation at the American Geophysical Union Annual Fall Meeting. San Francisco, CA.
- Boyd, K.**, Balgopal, M., & Birner, T. (December, 2015). *Exploring the sky: An exploratory study on discourse in an atmospheric science outreach program*. Presentation at the American Geophysical Union Annual Fall Meeting. San Francisco, CA.
- Sample McMeeking, L.B., Weinberg, A.E., & **Boyd, K.J.** (April, 2015). *Participatory action research experiences for undergraduates*. Paper presented at the American Educational Research Association Annual Meeting. Chicago, IL.
- Boyd, K.**, & Kummerow, C. (January, 2012). *Regional aerosol effects on precipitation: An observational study*. Presentation at the American Meteorological Society Annual Conference. New Orleans, LA.
- Boyd, K.** & Kummerow, C., Berg, W., & Saleeby, S. (April 2010). *The effect of aerosols on the onset of precipitation*. Presentation at the American Association for Aerosol Research Front Range Student Aerosol Meeting. Fort Collins, CO.
- Boyd, K.**, Kummerow, C., Berg, W., & Saleeby, S. (March 2010). *The effect of aerosols on the onset of precipitation*. Presentation at the Department of Energy Science Team Meeting. Washington, D.C.

Poster Presentations

- Boyd, K.**, Gold, A., Niepold, F., Ochwat, N., Christensen, A., Chandler, P., Bruckner, M., Fox, S., Kirk, K., & Ledley, T. (December 2021). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the American Geophysical Union Annual Fall Meeting. Virtual & New Orleans, LA.

- Callahan, J.D., Picho-Kiroga, K., Williams, C.W., Riveros-Ruenes, C., Liu, Y., Johnson, L., Refos, S., Romm, A., **Boyd, K.**, Thach, S., Rinzel, L., Bovell, S., Williams, J., Watkins, S., White, A., Stapert, N., & Siegner, A. (December 2021). Our Approach: Closely Linking Climate Education/Community Action with Advancements in DEI and Environmental & Social Justice. Multiple Partner Programs Presenting in Concert. Discuss with Us (adults & K-12 students) Uplifting and Heartwarming Successes in Climate Action, While Overcoming Stereotypes Holding Back Diversity in Earth Sciences. Poster presented at the American Geophysical Union Annual Fall Meeting. Virtual & New Orleans, LA.
- Callahan, J.D., **Boyd, K.**, Picho-Kiroga, K., Johnson, L., Havel, E., Haas, D., Refos, S., Niepold, F., Rinzel, L., Riveros-Ruenes, C., Stark, A., Kretser, J., & Fisk, C. (October 2021). CLEAN Network: Supporting ASTC members taking action on climate change, diversity and social justice. Poster presented at the Association of Science and Technology Centers Annual Conference. Virtual.
- Boyd, K.**, Fiorile, G., Gold, A., Christensen, A., Niepold, F., Fox, S., Bruckner, M., Ochwat, N., Ledley, T., & Kirk, K. (September 2021). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at Rising Voices 2021. Virtual.
- Boyd, K.**, Gold, A., Niepold, F., Fox, S., Ochwat, N., Christensen, A., Bruckner, M., Chandler, P., Ledley, T., & Kirk, K. (May 2021). *The Climate Literacy and Energy Awareness Network (CLEAN): Building a Foundation of Support for Climate and Energy Educators*. Poster presented at the CIRES Rendezvous. Virtual.
- Schloesser, K., Christensen, A., Leckey, E., Gold, A.U., Littrell, M., **Boyd, K.**, Okochi, C., & Morton, M. (May 2021). *Creating Authentic Opportunities for Students to Engage with their Community to Build Resilience to Environmental Hazards in Rural Colorado*. Poster presented at the CIRES Rendezvous. Virtual.
- Montano, P., Gold, A., Littrell, M., Okochi, C., **Boyd, K.**, Rongstad, B., Nacu-Schmidt, A., Duncan, B., & Leckey, E. (May 2021). *We are Water: Connecting Communities*. Poster presented at the CIRES Rendezvous. Virtual.
- Gold, A., Batchelor, R., **Boyd, K.**, Christensen, A., Griffith, J., Harden, L., Littrell, M., Montano, P., Morton, A., Nacu-Schmidt, A., Ochwat, N., Okochi, C., Rongstad, B., & Schloesser, K. (May 2021). *How the CIRES Education & Outreach Program can support you and broaden the impact of your science*. Poster presented at the CIRES Rendezvous. Virtual.
- Schloesser, K., Christensen, A., Leckey, E., Gold, A., Littrell, M., **Boyd, K.**, Okochi, C., & Morton, A. (December 2020). *Creating Authentic Opportunities for Youth to Build Resilience to Environmental Hazards in Rural Colorado*. Poster presented at the 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. (December 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the American Geophysical Union Fall Meeting. Virtual.
- Boyd, K.**, Gold, A., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., Manning, C., & Chandler, P. (August 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the CIRES Rendezvous. Virtual.
- Gold, A., Montano, P., Leckey, E., Littrell, M., Okochi, C., **Boyd, K.**, Duncan, B., & Lukas, J. (August 2020). *We are Water*. Poster presented at the CIRES Rendezvous. Virtual.
- Schloesser, K., Leckey, E., Gold, A.U., Okochi, C., **Boyd, K.**, Littrell, M., & Morton, A. (August 2020). *Planning for resilience: The Hazard Education and Resilience Awareness Task (HEART) Force empowers youth to lead the resilience conversation in rural Colorado*. Poster presented at the CIRES Rendezvous. Virtual.
- Boyd, K.**, Gold, A., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., Manning, C., & Chandler, P. (January 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the American Meteorological Society Annual Meeting. Boston, MA.
- Schloesser, K., Leckey, L. Taylor, J., Gold, A.U., Okochi, C., **Boyd, K.**, Littrell, M., & Morton, A. (December 2019). *Planning for resilience: the Hazard Education and Resilience Awareness Task empowers youth to lead the resilience conversation in rural Colorado*. Poster presented at the American Geophysical Union Fall Meeting. San Francisco, CA.

- Boyd, K.**, Gold, A., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., Manning, C., & Chandler, P. (December 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the American Geophysical Union Fall Meeting. San Francisco, CA.
- Lynds, S., Gold, A., **Boyd, K.**, & Morton, A. (November 2019). *A decade of enhancing climate and energy literacy – CLEAN’s program-wide evaluation*. Poster presented at the American Evaluation Association Annual Conference. Minneapolis, MN.
- Littrell, M.K., Gold, A., **Boyd, K.**, Taylor, J., Leckey, E., Schloesser, K., & Morton, A. (September 2019). *Empowering youth to envision community resilience actions around natural hazards*. Poster presented at the Center for STEM Learning 11th annual Symposium on STEM Education. Boulder, CO.
- Boyd, K.**, Gold, A., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., Manning, C., & Chandler, P. (July 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the Earth Educators Rendezvous, Nashville, TN.
- Boyd, K.**, Gold, A., Taylor, J., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., & Manning, C. (May 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at the CIRES Rendezvous. Boulder, CO.
- Gold, A., **Boyd, K.**, Leckey, E., Littrell, M., Lynds, S., Curry, R., Morton, A., Okochi, C., Schloesser, K., & Taylor, J. (May 2019). *How CIRES Education & Outreach can support you and broaden the impact of your science*. Poster presented at the CIRES Rendezvous. Boulder, CO.
- Leckey, E., Gold, A., Gonzales-Basca, I., **Boyd, K.**, & Taylor, J. (May 2019). *Climate Science Engagement Opportunities for Teachers and Students in Puerto Rico*. Poster Presented at the CIRES Rendezvous. Boulder, CO.
- Leckey, E., Gold, A., **Boyd, K.**, Taylor, J., Littrell, M., & Morton, A. (January 2019). *Empowering Rural Communities to increase Sustainability and Resilience through Disaster Planning Games*. Poster presentation at the National Council of the Environment. Washington, D.C.
- Boyd, K.**, Gold, A., Taylor, J., Lynds, S., Morton, A., Niepold, F., Bruckner, M., Fox, S., Kirk, K., Ledley-Shapiro, T., & Manning, C. (May 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Poster presented at Rising Voices 2019. Boulder, CO.
- Boyd, K.**, Gold, A., Taylor, J., Lynds, S., Niepold, F., Morton, A., Bruckner, M., Fox, S., Kirk, K., & Shapiro Ledley, T. (December 2018). *The Climate Literacy and Energy Awareness Network*. Poster presented at the American Geophysical Union Annual Fall Meeting. Washington, D.C.
- Boyd, K.**, Balgopal, M., & Birner, T. (December, 2016). *Outreach as a unifying concept in science education and science communication*. Poster presented at the American Geophysical Union Annual Fall Meeting. San Francisco, CA.
- Boyd, K.**, Balgopal, M., & Birner, T. (February, 2016). *Exploring the sky: A study on discourse in an atmospheric science outreach program*. Poster presented at the Front Range Student Ecology Symposium. Fort Collins, CO.
- Boyd, K.** & Kummerow, C. (January, 2011). *The effect of aerosols on the onset of precipitation Using data from ARM sites*. Poster presented at the American Meteorological Society Annual Conference. Seattle, WA.
- Boyd, K.**, Kummerow, C., Berg, W., & Saleeby, S. (March 2010). *Effect of aerosols on the onset of precipitation: AMF deployment in Shouxian, China*. Poster presented at the Department of Energy Science Team Meeting. Washington, D.C.

Panel Presentations

- (Invited) Boyd, K.** (October 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Panel participant at the Geological Society of America Annual Meeting/NESTA Share-a-Thon event. Virtual.
- (Invited) Boyd, K.** (April 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Panel Participant for the National Earth Science Teachers Association. Virtual.

- Boyd, K.** (January 2020). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Panel participant at the American Meteorological Society Educational Resources Session. Boston, MA.
- (Invited) Boyd, K.** (September 2019). *Climate Literacy Education: Barriers, Successes, and Future Work*. Panel Participant at the Geological Society of America Annual Meeting. Phoenix, AZ.
- Boyd, K., & Gold, A.** (September 2019). *The Climate Literacy and Energy Awareness Network (CLEAN)*. Panel participant at the Geological Society of America Annual Meeting/NESTA Share-a-Thon event. Phoenix, AZ.
- (Invited) Niepold, F., Boyd, K., Fox, S., Manning, C., & Chandler, P.** (November 2018). *CLEAN & ESIP*. Panel participant for an Earth Science Information Partners Webinar. Virtual.

Chairing/Convening Conference Sessions & Workshops

- Boyd, K., Abshire, W., Niepold, F., Chandler, P., Morrison, D., & Kretser, J.** (January 2022). Accelerating Climate Action through Equitable and Just Education, Civic Engagement, and Workforce Development. Two Oral Presentation Sessions and One Poster Session at the American Meteorological Society Annual Conference. Virtual & Houston, TX.
- Boyd, K., Gold, A., & Niepold, F.** (December 2021) Building Inclusive Strategies with Diverse Communities and Cities to Address Climate. Workshop at the American Geophysical Union Fall Meeting. Virtual & New Orleans, LA.
- Boyd, K., Niepold, F., Kretser, J., & Cintron, I.** (December 2021). Climate Literacy: Building Inclusive Climate Empowerment and Learning Strategies to Accelerate Climate Literacy and Action in a Changing World. Oral Presentation & Poster Session at the American Geophysical Union Fall Meeting. Virtual & New Orleans, LA.
- Montano, P., **Boyd, K., Valdez, S., & Stein, J.** (July 2021). *Partners and Communities Inspire Shifts in Evaluation and Research Practice*. Session at the Visitor Studies Association Conference. Virtual.
- Boyd, K., Gold, A., Niepold, F., Chandler, P., Kretser, J., Poppleton, K., & Morrison, D.** (December 2020). Building Inclusive Strategies with Diverse Communities and Cities to Address Climate. Workshop at the American Geophysical Union Fall Meeting. Virtual.
- Boyd, K., Gold, A., Niepold, F., & Morrison, D.** (December 2020). Climate Literacy Initiative Showcase. Poster Session at the American Geophysical Union Fall Meeting. Virtual.
- Boyd, K., Murray, M., Cohen, E., & Chandler, P.** (December 2020). Climate Literacy: Building Inclusive Climate Empowerment and Learning Strategies to Accelerate Climate Literacy and Action in a Changing World. Two Oral Presentation Sessions at the American Geophysical Union Fall Meeting. Virtual.
- Boyd, K., Gold, A., & Niepold, F.** (December 2019). Climate Literacy Effort Showcase. Poster Session at the American Geophysical Union Fall Meeting. San Francisco, CA.
- Boyd, K., Gold, A., Niepold, F., Chandler, P., Kretser, J., Poppleton, K., Haas, D., & Anderson, R.** (December 2019) Building Inclusive Strategies with Diverse Communities and Cities to Address Climate. Workshop at the American Geophysical Union Fall Meeting. San Francisco, CA.
- Boyd, K., Huffman, L., Carter, K., & Neitzke Adamo, L.** (December 2019). Climate Literacy: Moving Broad Audiences from Knowledge to Action. Oral Presentation & Poster Session at the American Geophysical Union Fall Meeting. San Francisco, CA.

Technical Reports

- Boyd, K. & Marsh, C.** (2021). *Navigating the New Arctic Community Office Community Needs Assessment Evaluation Report* (Unpublished technical report, 30pp). CIRES Education & Outreach, Boulder, CO.
- Boyd, K. & Marsh, C.** (2021). *Navigating the New Arctic Community Office Researcher Needs Assessment Evaluation Report* (Unpublished technical report, 89pp). CIRES Education & Outreach, Boulder, CO.
- Boyd, K.** (2021). *HEARTForce 2020-2021 Curriculum Implementation Report* (Unpublished technical report, 36pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K. & Lynds, S. (2021). *Enhancement of Astronomy and Earth Science Teaching Using High Resolution Immersive Environments: January 2016-December 2020 Evaluation Summary* (Unpublished technical report, 53pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K. & Okochi, C. (2020). *We are Water Needs Assessment Report* (Unpublished technical report, 74pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K. & Okochi, C. (2020). *We are Water Needs Assessment Report* (Unpublished data visualization slide deck, 23pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K. (2020). *HEARTForce 2019-2020 Curriculum Implementation Report* (Unpublished technical report, 27pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K. (2019). *HEARTForce Evaluation Report: Needs Assessment* (Unpublished technical report, 26pp). CIRES Education & Outreach, Boulder, CO.

Boyd, K., Gutwill, J., & Soletto, R. (2017). *Visitor experience study 2016-2017 report: Exploratorium* (Unpublished technical report and associated infographic, 102pp). Exploratorium, San Francisco, CA.

Boyd, K. & Sample McMeeking, L. (2015). *Alliance Evaluation Report* (Unpublished technical report, 10pp). Colorado State University STEM Center, Fort Collins, CO.

Boyd, K., Bowker, C., & Sample McMeeking, L. (2015). *CMMAP Education & Diversity: Annual Report for FY2014* (Unpublished technical report, 26pp). Colorado State University STEM Center, Fort Collins, CO.

Boyd, K. & Sample McMeeking, L. (2014). *CMMAP Teacher Course Evaluation Report 2014* (Unpublished technical report, 18pp). Colorado State University STEM Center, Fort Collins, CO.

Boyd, K., Sample McMeeking, L., & Weinberg, A. (2013). *CMMAP Teacher Course Evaluation Report 2013* (Unpublished technical report). Colorado State University STEM Center, Fort Collins, CO.

40+ short evaluation reports for events, monthly assessments, formative evaluation, etc. (not listed)

Professional Memberships

American Meteorological Society
American Geophysical Union
Earth Science Women's Network
National Association for Research in Science Teaching
National Association of Geoscience Teachers
Phi Beta Kappa Honors Society (June 2006)
Visitor Studies Association

Awards and Service

Graduate Teaching Certificate from Colorado State University (CSU) Institute for Teaching & Learning (TILT)
Graduate School Committees:
 (1) Development of campus climate survey and
 (2) Advising & mentoring task force
Phi Beta Kappa Honors Society (inducted June 2006)
UW Atmospheric Science Academic Achievement Awards:
 (1) Academic Achievement Award
 (2) Phil Church Award
Reviewer for Journal of Geoscience Education
Served as the CLEAN session coordinator for AGU (ongoing, starting 2019)
Coordinator for Climate Education presence at AGU, NSTA, NAAEE, AMS, GSA, ESIP, etc. (ongoing, starting 2019)
Active member of the Visitor Studies Association Green Team Committee

Active member of the Earth Science Women's Network Committees

- (1) Professional Development Committee
- (2) Events Committee

Accepted into Rising Voices Indigenous Climate Research Network

Elected member of the American Meteorological Society's Board on Representation, Inclusion, and Diversity (BRAID). Served on:

- (1) Survey Committee
- (2) Women's Committee

Invited as contributor and co-facilitator to the US Action for Climate Empowerment (ACE) Strategy Framework project (ACE is part of the UNFCCC Initiative)

Advisory board member on an Idaho climate statewide education-network (grant-funded project; Idaho Climate Literacy Education Engagement and Research; iCLEER)

Developed Broader Impacts Evaluation Resource Database as a service to RIO and community with A. Gold, A. Rose, & S. Forsythe: <https://www.colorado.edu/researchinnovation/research-development/other-resources/broader-impacts-network/broader-impacts-project-evaluation>

Cohort leader for professional development institute for climate educators through Climate Generation

Professional Development

CITI Research Renewal & CU-specific Training (December 2021)

Colorado Alliance for Environmental Education (CAEE)/Colorado Department of Education (CDE) Rooting in Equity, Diversity, Inclusion and Justice Workshop (March 2021)

American Educational Research Association (AERA) Empowerment Evaluation Workshop (August 2020)

Claremont Graduate University Culturally Responsive Evaluation Workshop (August 2020)

CIRES D&I/University of Colorado DEI Community of Practice Meetings (starting in August 2020)

CIRES E&O Diversity, Equity, and Inclusion (DEI) Discussions (starting in June 2020)

CIRES Education & Outreach (E&O) Research and Evaluation Group Meetings (starting in November 2019)

CIRES Diversity & Inclusion (D&I) Training on Neurodiversity in the Workplace (June 2020)

Hollaback Bystander Training (April 2020)

CU CISC Interrupting Racism Workshop (Oct 2019)

University of Colorado Center for Inclusion and Social Change (CU CISC) SafeZone Training (October 2019)

Google Analytics Training (August 2019)

CITI Research Renewal & CU-specific Training (January 2019)

Earth Science Women's Network (ESWN) Leadership Skills Workshop (October 2018)

Exploratorium Lunch & Learn Series Event on NNOCCI Climate Change Communication Training (January 2018)

CITI Research Renewal & Exploratorium-specific Training (April 2017)

CITI Research Renewal Training (March 2016)

CSU TILT Workshop: 21st Century Student Development: Preparing Students for an Engaged Response to Climate Change and Our New Environmental Reality (October 2015)

CSU TILT Workshop: Digging Deep: Preparing Students Across the Curricula to Respond to Climate Change via a Social Justice Lens (October 2015)

American Association for the Advancement of Science (AAAS) Science Communication Workshop (October 2014)

CITI Research Training (June 2013)