Education

COLORADO SCHOOL OF MINES, PhD Hydrologic Sciences and Engineering

2014-2018

Honors

- Independently raised over \$200,000 in fellowships and awards (National Science Foundation, Department of Energy, and others)
- Winner of 4 conference presentation awards, including an AGU Outstanding Student Paper (top 3% of ~10,000 presentations)

 Research
- Built and used numerical models and HPC systems to diagnose climate change impacts in Colorado R. Rocky Mountain headwaters
- Authored 6 publications: 4 in peer-reviewed journals and first author on highlighted paper for Environmental Research Letters
- Internship at the National Center for Atmospheric Research and 2-yr Collaboration with Berkely National Lab Further
- As president of graduate group I tripled yearly funding, launched first department merchandise, and managed 10-person team
- Co-planned and ran 2-day water scarcity conference (100 attendees) with experts from business, policy, and science sectors

COLORADO COLLEGE, B.A. Physics

2008-2011

- Senior thesis studying the intersection of physics, music, and psychology
- Active member of EQUAL, queer student group (continued through graduate school with CO School of Mines O-STEM group)

Experience

LAWRENCE BERKELEY NATIONAL LAB, Government funded research facility

Berkeley, California

Department of Energy Graduate Student Researcher, supervisor: Kenneth Williams

Fall 2017 - Summer 2018

• Designed and then collaborated with Berkeley scientists to validate a hyper-resolution model of the Berkeley Scientific Focus Area, resulting in publishing a new mathematical formula for scale-effective parameterizations in mountain regions

SPOUTS OF WATER, Social startup and NGO providing ceramic water filters to Ugandans in need

Kampala, Uganda

Impact Director

- Spring Summer 2017
- Founded new impact department to legitimize efforts of both NGO and Ltd., resulting in increased capacity to secure grants, investors, as well as quantitative internal analysis to inform better and more efficient decision making
- Developed and piloted new model for NGO resulting in redesigned business strategy to shift from small, disparate projects to a donation program able to impact entire communities and reach scale across the country
- Implemented registration for products, leading to first end-user database, opening of new sales channels, and customer feedback

SUNDANCE INSTITUTE, Film festival with ~50,000 attendees

Park City, Utah

Production Coordinator

Fall 2013 - Spring 2014

- Assisted with transformation of Park City into the largest film festival in the United States by:
 - managing 30,000 entry timeline across 20 departments and more than 50 local businesses
 - co-supervising 10-person team responsible for construction of all venues and theaters

Assistant Warehouse Manager

Winter 2012

2011-2013

• Led team of 6 volunteers responsible for constant presence of sponsor publications in more than 20 venues and 3 cities

FREELANCE OUTDOOR EDUCATOR

China, Oregon, Colorado

Developed curriculum and led or supervised leaders for outdoor programs at multiple companies

- Youngest person to direct all programs for high-school girls at Cheley Colorado Camps, consistently rated in top 3 camps worldwide; responsible for training and supervising 14 staff, coordinating 30+ trips and programs for 120 campers, and parent communication
- Developed curriculum for outdoor education organizations in Colorado, Oregon and China resulting in new programs at all companies
- Secured \$20,000 grant for wilderness health training, trip planning, and 14-day horsepacking expedition in Montana

Additional

MUSIC, 15 years of guitar, songwriting, singing and performing including fronting and managing a touring 5-piece band LANGUAGE, fluent in Spanish, beginner in Luganda, basic programming in many languages for high performance computing applications R, unix, tcl, GIS, fortran, ncl, C++, python

WILDERNESS, Current wilderness first responder, CPR, aiare avalanche I, equine first aid, basic flatwater rescue