

# Patrick Kelly, M.S.

Ph.D. Candidate

## Education

### Utah State University, Logan, UT

January 2021-Present

- Doctor of Philosophy in Environment and Society
  - Researching how different human populations conceptualize free-ranging American bison (*Bison bison*) and European bison (*Bison bonasus*), and how humans coexist with extant Pleistocene megafauna in general
  - Dissertation Chapter (in progress): Where Habitat Ends, Conflict Begins: Conservation and Management Impacts of Misaligned European Bison Habitat Designation in Poland
    - Surveyed the Polish general public to assess differing perceptions of *Bison bonasus* social tolerance and management opinions relative to respondents' distance from designated bison habitat
    - Research in collaboration with Warsaw University of Life Sciences (SGGW)
  - Dissertation Chapter (in progress): Public Perceptions and Impacts of *Bison bison* in Yellowstone National Park Gateway Communities
    - Conducting general public surveys to assess differing perceptions concerning implicit values, attitudes, and acceptance capacity for *Bison bison*
- Climate Adaptation Science Specialization Graduate Minor
  - Interdisciplinary team capstone project combined climate projection and economic market data to create a USU Extension tool for farmers on alternative crop production potential in Cache Valley to increase farmer crop diversification and economic sustainability in the face of future growing uncertainties
- 2022-2023 Quinney College of Natural Resources Graduate Student Teacher of the Year

### Alaska Pacific University, Anchorage, AK

May 2015

- Master of Science in Outdoor and Environmental Education
  - Research blended ecopsychology, ecophilosophy, and Norwegian Deep Ecology/Friluftsliv to create an experiential learning model that teaches hope via climate change action
  - Thesis entitled: "Pandora's Last Gift: An Interdisciplinary Study of Hope Amid Climate Change"

### Florida State University, Tallahassee, FL

May 2013

- Bachelor of Arts in Middle Eastern Studies
  - Concentration in first-century radical Judaism, including early Christianity and the Dead Sea Scrolls' Yahad sects
  - Senior thesis entitled: "The Called: Mazdaean Influence on 1QM the War Scroll"
- Minor in Music

## Academic Experience

### Utah State University, Logan, UT

June 2019-Present

#### Instructor

- Teaches in S.J. & Jessie E. Quinney College of Agriculture and Natural Resources (QANR; Formerly the S.J. & Jessie E. Quinney College of Natural Resources, QCNR) and taught in Emma Eccles Jones College of Education and Human Services (CEHS)
- 2022-2023 Quinney College of Natural Resources Graduate Student Teacher of the Year
- QANR/QCNR Courses as Instructor of Record:
  - ENVS 1350 Introduction to Environmental Science (Spring 2025, Spring 2026)
  - ENVS 2000 Natural Resources Professional Orientation (Fall 2023, Fall 2024, Fall 2025)
  - ENVS 4600/5600/6600 Natural Resource Interpretation (Fall 2022, Fall 2024 - two sections, one online)
  - ENVS 4950/6900 Building Science Communication Skills through Environmental Education Tools (Fall 2019)
  - ENVS 5000 Environmental Nonprofit and Volunteer Management (Spring 2021\*, Spring 2022\*, Spring 2023\*, Spring 2024\*)
- QANR/QCNR Courses as Graduate Teaching Assistant
  - ENVS 3600 Living with Wildlife (Spring 2024\*)
- CEHS Courses as Instructor of Record:
  - CEIT 5700-LT1 Experiential Education I (Summer 2019)
  - CEIT 5700-LT2 Experiential Education II (Summer 2019)
- Fields of expertise: Human-wildlife interactions, human-dimensions of wildlife, *Bison* spp. in Europe and North America, social tolerance of wildlife, political ecology, nonprofit management, experiential education, natural resource interpretation, learning theories, education program development and evaluation

## Alaska Pacific University, Anchorage, AK

### Instructor

January 2014-May 2019

- Taught in the Master of Science in Outdoor and Environmental Education and Bachelor of Arts in Outdoor Studies programs
- Courses as Instructor of Record:
  - OEE 61100 Curriculum Design for Experiential Educators (Fall 2017)
- Courses Co-taught:
  - OS 11300 Introduction to Sea Kayaking (Spring 2016)
- Courses as Graduate Teaching Assistant
  - OS 12000 Introduction to Skiing/Snowboarding (Spring 2014, Spring 2015)

\* denotes online course

## Academic Service

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### Utah State University

#### Undergraduate Research Mentor

September 2024-May 2025

- Oversaw and mentored an undergraduate student researcher as a part of a regular research program, teaching essential research skills through application

### S.J. & Jessie E. Quinney College of Natural Resources

#### Quinney College of Natural Resources Graduate Student Council Representative

May 2023-April 2024

- Elected to and chaired the Quinney College of Natural Resources Graduate Student Council, overseeing College-level elected representatives, advocating for graduate students and their interests
- Represented the Quinney College of Natural Resources at the University-level graduate student council, advocating for graduate students and their interests

### Department of Environment and Society

#### Hiring Committee Member

October-December 2024

- Served as the graduate student member of the hiring committee for Quinney College of Natural Resources Department of Environment and Society search for Assistant Professor in Human Dimensions of Natural Resources

#### Environment and Society Department College Graduate Student Council Representative

May 2022- April 2023

- Elected to the Quinney College of Natural Resources Graduate Student Council, representing the Department, and advocating for its graduate students and their interests

### Alaska Pacific University

#### Master's Committee Member

August 2017-May 2019

- Elisha Riesterer, MS, graduated in May 2019. Studied the effects of a custom adaptive swimming curriculum with youth and adults living with disability
- Robin Lockwood, MS, graduated in May 2018. Studied the impacts of science professionals in classrooms on middle and high school student science content knowledge and concept understanding

### Academic Journal Referee

Journal of Human-Wildlife Interactions  
People and Nature

2024-Present  
2022-Present

## Publications

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### Peer-reviewed Journal Articles

2025      **Patrick O. Kelly**, Magdalena Wilk, Daniel Klich, Wanda Olech, K Leikis\*, Stefani A. Crabtree. "Variation in the opinions of residents from urban, rural, and urban-rural municipalities regarding the population size of the European bison (*Bison bonasus*) in Poland." *European Bison Conservation Newsletter*, vol. 16

### Extension Publications

2023      Jesse Mathews, Youping Sun, Kelly Kopp, Darren McAvoy, Steven Price, Paul Harris, Michael Farrell, Michelle Sagers, **Patrick O. Kelly**. "Producing Maple Syrup From Boxelder and Norway Maple Trees [Fact sheet]." *Utah University Extension*

### Journal Articles In Preparation

**Patrick O. Kelly**, Magdalena Wilk, Daniel Klich, Wanda Olech, Stefani A. Crabtree. “Where Habitat Ends, Conflict Begins: Conservation and Management Impacts of Misaligned European Bison Habitat Designation in Poland”

**Patrick O. Kelly**, Magdalena Wilk, Stefani A. Crabtree. “Public Perceptions and Impacts of *Bison bison* in Yellowstone National Park Gateway Communities”

**Patrick O. Kelly**, Stefani A. Crabtree. “Archaeoecological Methodologies in Refining Cultural Keystone Species Triangulation”

Magdalena Wilk, **Patrick O. Kelly**, Daniel Klich, Wanda Olech, Stefani A. Crabtree. “Understanding Strengths and Shortcomings of European Bison Management in Poland through Locals’ Perceptions of Success.”

Kyle Harper, Courtney Hofman, Anselme Cormier, Stefani Crabtree, Dylan Davis, Jennifer Dunne, Peterson Faina, **Patrick O. Kelly**, Lilly Parker, Natalia A. Prado-Oviedo, Emma Elliott Smith, Felisa Smith, Steve Wolverton, Justin Yeakel. “Hypervolume of Deep Time Human-Wildlife Social-Ecological System Interactions in the Context of Megafauna Ecological Extinction Thresholds.”

\* indicates mentored undergraduate researcher co-author

## Professional Lectures and Presentations

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### Utah Public Radio

January 2019-Present

Wild About Utah

*Regular Contributor*

- Write and record radio stories for a state-wide program focusing on science communication, Utah wild places, and wilderness experiences
- Co-recipient of the 2023 First Place Award in Radio Environment from the Society of Professional Journalists - Utah Chapter

### Megafauna Depletion and Holocene Ecological Networks

March 2025

Santa Fe Institute, Santa Fe, NM

*Working Group Invitee*

- A small interdisciplinary working group of scientists formed to develop new theories and methods for a better understanding of the intersections between humans and megafauna depletion during the Holocene. Areas of expertise contributed included *Bison* spp., human-wildlife conflict, and human-wildlife interactions in general.

### Utah State University Crop School

January 2023

Utah State University Extension, Logan, UT

*Presenter*

- Presented to local farmers findings from interdisciplinary team project combining climate projection and economic market data to create a USU Extension tool for farmers on alternative crop production potential in Cache Valley to increase farmer crop diversification and economic sustainability in the face of future growing uncertainties

### Science Management Policy Exchange

September 2022

Southwest Climate Adaptation Science Center & Utah State University, Logan, UT

*Presenter*

- Discussed interdisciplinary team project combining climate projection and economic market data to create a USU Extension tool for farmers on alternative crop production potential in Cache Valley to increase farmer crop diversification and economic sustainability in the face of future growing uncertainties

### Science Management Policy Exchange

February 2022

Utah State University, Moab, UT

*Presenter*

- Discussed interdisciplinary team project combining climate projection and economic market data to create a USU Extension tool for farmers on alternative crop production potential in Cache Valley to increase farmer crop diversification and economic sustainability in the face of future growing uncertainties

### Science Management Policy Exchange

September 2021

Southwest Climate Adaptation Science Center & Utah State University, Logan, UT

*Presenter*

- Discussed interdisciplinary team project combining climate projection and economic market data to create a USU Extension tool for farmers on alternative crop production potential in Cache Valley to increase farmer crop diversification and economic sustainability in the face of future growing uncertainties

### **Utah Society of Environmental Education**

29th Annual Conference, Farmington, UT

**November 2019**

*Presenter*

- Presentation entitled: "Revising Environmental Education Approaches and Understandings for the Current Professional Generation"
- Topics included revisions to Utah State University's Natural Resources and Environmental Education Certificate Program courses and future horizons in Environmental Education praxis and outreach local to Utah

### **Eagle River Nature Center**

Eagle River Nature Center Public Programs, Eagle River, AK

**December 2017**

*Presenter*

- Presentation entitled: "Rage Against the Machine"
- Topics included how 21st-century technologies have changed children's relationship with nature and each other

### **Association of Nature Center Administrators**

Residential Environmental Learning Centers Conference, North Cascades, WA

**January 2017**

*Professional Development Session Facilitator*

- Facilitated and led discussion during two sessions amongst industry peers and professionals concerning:
  - Best practices in curriculum design/teaching theories for nature-based early childhood education centers
  - Integration of Traditional Ecological Knowledge and Deep Ecology in work with underserved and Indigenous youth

### **AK Dept of Fish and Game; Alaskans for Palmer Hay Flats; The Nature Conservancy**

Mat-Su College Wildlife Wednesdays, Wasilla, AK

**October 2015**

*Presenter*

- Presentation entitled: "Bandage Your Eyes with Awe: Climate Change and the Need for a New Language in Modern Science"
- The importance of subjectivity, story, humor, and hope in discussing climate change and creating meaningful action

### **American Evaluation Association: Alaska Evaluation Network**

Alaska Evaluation Network Conference, Anchorage, AK

**April 2015**

*Presenter*

- Joint presentation with Michael Kaplan, Ph.D., entitled "Alaskan Adventure as Academic Performance: Canoeing for Credit / Snowboarding for Diplomas"
- Topics included higher education assessment in the Alaska Pacific University Outdoor Studies BA program and horizontal competency versus vertical progress assessment tools and techniques

## **Professional Experience**

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### **Stokes Nature Center, Logan, UT**

*Director of Education*

**June 2018-March 2023**

- Oversaw Education Department, including staffing, curriculum development in multiple program areas, budgeting, scheduling, and performance reviews
- Wrote, managed, and reported on annual federal, state, county, and private grants, both for continued operations and new program development.
  - Total of grants procured \$798,000
    - Federal- \$410,000
    - State- \$83,000
    - County- \$115,000
    - Private and Foundation- \$190,000
- Supervised and guided Stokes Nature Center's core education framework, which guides and informs the organization's pedagogical approach, best practices, professional development, and performance management.
- Served as a resident expert in theory, research, interpretation, and practice of environmental education, including inquiry-based learning, diversity and equity, and how to create scientifically and environmentally literate constituents
- Created, managed, and monitored annual program budgets to ensure stable financial positions for education department programs and participated in budget development as a part of the Stokes Nature Center leadership team
- Managed and maintained Nature Center facilities and other organization properties

**Denali Education Center, Denali Park, AK***Youth Programs Manager***February 2016-June 2018**

- Developed and delivered a wide variety of single-day and multi-day outdoor and environmental experiential educational programming for youth aged 2-18, and adaptive curriculum for adults and youth living with disability
- Led professional development for local Denali Borough School District teachers on service-learning and experiential education best practice
- Managed all DEC Youth Programs including the National Park Service and partnership outreach and networking, marketing, budgeting, grant writing, staff hiring, staff training, digital systems management, curriculum development, program implementation, program assessment, and evaluation
- Spearheaded the service-learning modeled Zero Landfill Ambassador's Program, engaging local youth stakeholders in waste reduction practices in the local community, as a part of the national NPS, NPCA, LNT, and Subaru of America-partnership Zero Landfill Initiative
- Developed backcountry expedition programming aimed to serve Alaska-settled refugee communities through partnership with Catholic Social Services and the National Park Service, and secured multi-year program funding through Apple, Inc.
- Designed and implemented, in partnership with Nenana City School, a groundbreaking Alaska high school credit-bearing intensive backcountry expedition course serving primarily Alaska Native high school students

*Field Educator***May 2015-February 2016**

- Developed and delivered in-depth natural history curriculum for residential course classes, front country hikes, and evening lectures for a dynamic and diverse audience of youth and adult learners
- Educated program participants in natural history, environmental ethics, Leave No Trace ethics, current scientific research within Denali National Park, and relevant environmental issues

**Winterberry Enrichment Program, Anchorage, AK****August 2014-April 2015***Child Development Leader- Kindercare Lead*

- Designed and led original extracurricular activities for kindergarten-5th grade Waldorf students, including environmental education, outdoor skills, and music literacy

**Ageya Wilderness Education, Homer, AK****June 2014- December 2014***Counselor/Life Coach*

- Facilitated experiences with blended urban and rural Alaska Native youth centered around environmental ethics, communal living, academic skills, and expedition skills as part of a greater natural history curriculum

**Louise's Farm School, Palmer, AK****August 2013-May 2014***Instructor*

- Created and executed place-based curricula covering environmental education, mathematics, and English literacy for students ages 5-13, engaging them in topics through relevant outdoor experiential education

**Kingsley Pines Camp, Raymond, ME****May 2012- August 2013***Trips Director*

- Planned, executed, and built detailed reports for over 50 single and multi-day outdoor adventure trips per summer for youth ages 8-17 across the northeastern United States, including hiking, backpacking, canoeing/kayaking, camping, and mountain biking

**Florida State University Outdoor Pursuits, Tallahassee, FL****September 2011-May 2013***Trip Leader*

- Planned and executed single and multi-day adventure trips for adults across the southeastern United States, including rock climbing, backpacking, skiing/snowboarding, canoeing/kayaking, mountain biking

**Philmont Scout Ranch, Cimarron, NM****June 2011- July 2011***Special Assignment - Rayado Ranger*

- Planned and executed a 21-day, 180-mile backpacking trek with a partner for seven youths aged 15-18. Planning included: risk management, itinerary planning, low-impact backpacking planning, bulk food planning, and packaging

*Ranger***May 2010-August 2011**

- Facilitated leadership within mixed youth and adult expedition crews and coordinated with youth crew leaders to create a 10-day hiking plan through regular meetings, check-ups, and constructive evaluations while in the field

**Skills****Languages-** English (Native Speaker), Polish (A2)

## **Coding Languages- R**

## **Honors and Awards**

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### **Work-Related**

Society of Professional Journalists - Utah Chapter 2023 Awards, First Place co-recipient in Radio Environment for Wild About Utah  
American Society for Horticulture Sciences Educational Video of the Year 2022 - Maple Tapping in the Intermountain West  
Florida State University 2012-2013 Trip Leader of the Year

### **Academic**

2022-2023 USU Quinney College of Natural Resources Graduate Student Teacher of the Year  
APU Graduate Honors List Fall 2014  
FSU Dean's List Spring 2013, Spring 2012, Spring 2010, Fall 2009

### **Community**

Eagle Scout

## **Certifications**

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**Wine & Spirit Education Trust** - Level 2 Award in Wine

## **Community Service**

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**Common Ground Outdoor Adventures** - Volunteer Adaptive Ski/Snowboard Instructor, Logan, UT - 2018-Present

**Cache Refugee and Immigration Connection** - Walk-in Hours Volunteer, Logan, UT - 2019-2021

**Association for Experiential Education** - Northwest Region Council Chair - 2017-2019

**Denali Borough Assembly** - Elected Assembly Member, Seat B, Denali, AK - 2016-2018

**Iditarod Trail Sled Dog Race** - Trail Crew Volunteer, Nulato, AK - 2017

**Peksulineq Tatitlek Cultural Heritage Week** - Instructor in Medicinal & Edible Plants and Kayaking, Tatitlek, AK - 2015-2016