

AARON ENRIQUEZ

Postdoctoral Fellow | Department of Economics | University of Alaska Anchorage

CONTACT INFORMATION

- » **Emails:** enriquez.aaronj@gmail.com, ajenriquez@alaska.edu
- » **Web:** ajenriquez.com

RELEVANT EXPERIENCE

- Research fields include natural resource and environmental economics, nonmarket valuation, bioeconomic analysis, dynamic optimization, and behavioral economics.
- Experience conducting primary stated and revealed preference nonmarket valuation projects from start to finish, including survey pretesting (e.g., focus groups, stakeholder interviews), survey design and administration, statistical analysis, and public outreach.
- Experience conducting bioeconomic analysis from start to finish, including estimating biological growth functions, linking economic benefits and damages to species population sizes, and using dynamic models to determine optimal management strategies over time.
- Proficient in the use of programming and mathematical/statistical software: R, Mathematica, MATLAB, Stata, QGIS, ArcGIS, LaTeX, Microsoft Excel, Qualtrics.

EDUCATION

University of Wyoming

Laramie, WY
May 2021

- » **PhD, Economics**

College of Business

Dissertation: [Bioeconomic Analysis and Nonmarket Valuation of Grizzly Bears in the Greater Yellowstone Ecosystem](#)

Committee: Dr. David Finnoff (*chair*), Dr. Stephen Newbold (*co-chair*), Dr. Jason Shogren, Dr. David Aadland, Dr. Carlos Martínez del Rio (*outside member*)

- » **MS, Economics, Environment and Natural Resources**

August 2017

College of Business, Haub School of Environment & Natural Resources

- » **BS, Biology, Honors Program (*summa cum laude*)**

August 2015

College of Arts & Sciences

- » **BS, Economics (*summa cum laude*)**

August 2015

College of Business

RESEARCH POSITIONS

University of Alaska Anchorage

Anchorage, AK

- » **Postdoctoral Fellow, Department of Economics**

July 2021 - present

Supervisor: Dr. Kevin Berry

Experience:

- **Project I: Marine Arctic Resilience, Adaptations, and Transformations (NSF grant)**
 - Building a bioeconomic model to analyze how agencies can maximize social net benefits across Alaskan residents by managing competing salmon fisheries (e.g., commercial and “personal use” sockeye fisheries).
 - Parameterizing the model using ecological and economic data from the Alaska Department of Fish and Game, including data on all resident personal use fishing permits since 2008.
 - Estimating travel cost models to determine the factors that influence people’s demand for trips to alternative fishing sites, as a function of key variables including driving distances, predicted salmon run size, weather, and intensity of commercial fishery operation.

- **Project 2:** *Eco-social interactions influencing human exposure to ticks and the Lyme disease agent in anthropogenic landscapes (NSF grant)*
 - Analyzing factors that drive people's perceptions of the risks associated with ticks, including the risk of being exposed to ticks and the risk of being infected with Lyme disease. Then linking those risk perceptions with people's propensity for engaging in past and future risk-reduction actions.

U.S. National Park Service**Fort Collins, CO**

- » **Research Assistant, Social Science Program**

October 2020 - July 2021*Supervisor:* Dr. Leslie Richardson*Experience:*

- **Task 1:** Developed R code that calls on the ArcGIS Online server to automate the calculation of visitors' round-trip travel distances and times from their home zip codes to any national park following the nearest roads.
- **Task 2:** Used a travel cost model to determine the economic value of bear viewing in Yellowstone. Linked this to a model of bear sightings to predict how the viewing value per bear would change given changes in the number of bears. Improved the implementation of revealed preference valuation techniques used to value ecosystem services (e.g., wildlife viewing).

University of Wyoming**Laramie, WY**

- » **PhD Candidate, Department of Economics**

May 2018 - May 2021*Supervisors:* Dr. David Finnoff, Dr. Stephen Newbold*Experience:*

- **Project 1:** Built a bioeconomic model in which an agency sets grizzly bear harvest over time by balancing damages and benefits to multiple competing stakeholders.
 - Worked with grizzly bear experts to collect data from multiple sources.
 - Estimated benefits and damages as a function of grizzly bear population size and other key variables of interest, including climate and resource abundance. To do so, employed various econometric techniques (e.g., count models and ordinary least squares regressions).
 - Computed the bioeconomic model using Mathematica.
 - Presented the research at a symposium and published a journal article in a top field journal.
- **Project 2:** Quantified people's values for grizzly bears in the Greater Yellowstone Ecosystem using a nonmarket valuation survey.
 - Pretested the survey using focus groups and interviews with key stakeholders.
 - Designed trip-recall questions used to estimate travel cost models.
 - Designed two choice experiments used to estimate people's willingness to pay for grizzly bear-related conditions both inside and outside the national parks of the Greater Yellowstone Ecosystem.
 - Administered the survey to roughly 2,400 participants using Qualtrics.
 - Cleaned and analyzed the survey data in R. Calculated summary statistics. Used a range of econometric techniques, including Poisson, negative binomial, conditional logit, and mixed logit regressions.
 - Presented results to grizzly bear managers and ecologists, as well as at an environmental and natural resource economics conference.

University of Wyoming**Laramie, WY**

- » **Graduate Research Assistant, Department of Economics**

August 2015 - May 2021*Supervisors:* Dr. David Finnoff, Dr. Rob Godby

Experience:

- **Project 1:** Used net present value analysis to determine the feasibility of extracting rare earth elements out of coal ash generated at Wyoming power stations.
 - Worked closely with geologists from the School of Energy Resources and parameterized the analysis using geological data.
 - Conducted extensive sensitivity analysis over key economic variables (e.g., operating costs, rare earth prices).
 - Presented the research at a geology conference and published a journal article.
- **Project 2:** Used economic experiments to determine Wyoming residents' preferences for alternative wind energy sources in Wyoming.
 - Conducted extensive literature review.
 - Pretested a survey using focus groups.
 - Designed a series of economic experiments to elicit people's tradeoffs across major categories of impacts from potential future wind energy developments: economic, viewshed, wildlife, climate.
 - Administered the survey using Qualtrics.

» **Research Aide, Haub School of Environment & Natural Resources** **June - August 2017**

Supervisor: Dr. Jo Albers

Experience:

- Facilitated writing a grant proposal ("Small scale aquaculture as a livelihood alternative with marine conservation benefits in coastal communities in Chile").
- Conducted fieldwork in Southern Chile in April 2018.
- Presented research at a fisheries conference in Seattle.

» **Undergraduate Research Fellow** **June - August 2013**

Wyoming EPSCoR, National Science Foundation

Supervisor: Dr. Stephen Herbert

FEDERAL POSITIONS**U.S. Forest Service****Cody, WY**

» **Forestry Tech (General)**

May - August 2012

» **Forestry Aid (General)**

July - August 2011

Series/Grade: GS-0462-2/1 (Student Temporary Experience Program)

Organization: Rocky Mountain Region, Region 2, Shoshone National Forest

Address: Cody Interagency Dispatch Center, 2501 Wright Bros Drive, Cody, WY 82414

Role: Wildland Fire Initial Attack Dispatcher

Supervisors: Nicholas Janota & Cathy Hutton

TEACHING POSITIONS (*full teaching summaries and evaluations available [here](#)*)**University of Wyoming****Laramie, WY**

» **Temporary Lecturer, Department of Economics**

July - August 2019

Instructor of record: Principles of Microeconomics (ECON 1020)

Delivery: 3-credit online course (summer session)

Size: 41 students

Instructor quality: 4.35/5

Selected feedback:

- "The online videos were very clear and helpful, it is the best online class I've taken so far."
- "The lay out from quizzes to assignments to excels was very smooth and all had something to do with each other. I believe this was one of the better taught courses I have taken while here at UW, I think many students would benefit from this course taught by this instructor."

- » **Temporary Lecturer, Haub School of Environment & Natural Resources** **January 2019**
Instructor of record: ENR Topics: Mini Microeconomics (ENR 4890)
Delivery: 1-credit online course (J-term)
Size: 6 students
Instructor quality: 4.67/5
Sample video: [click here](#)
- » **Temporary Lecturer, Department of Economics** **August - December 2018**
Instructor of record: Principles of Microeconomics (ECON 1020/AGEC 1020)
Delivery: 3-credit on-campus course (fall semester)
Size: 123 students
Instructor quality: 4.52/5 (department mean: 3.95/5)
Selected feedback:
- “Aaron is one of my favorite professors. I have been here for four years and never have I had a professor that is so good at explaining course material and attentive to his class.”
 - “His ability has allowed me to understand Microeconomics. He can connect everything to real world, and that helps me out most. A lot of teachers cannot do that, and if they figured out how to do it, I would be a much better student. Great guy, great professor, and I wish he taught more classes because I wouldn’t hesitate to enroll in them.”
 - “The use of excel and introduction to the program R. I gained a lot of experience in excel and it’s actually helped me find a job after school.”
- » **Temporary Lecturer, Haub School of Env. & Nat. Res.** **December 2017 - January 2018**
Instructor of record: ENR Topics: Mini Microeconomics (ENR 4890)
Delivery: 1-credit online course (J-term)
Size: 19 students
Instructor quality: 4.09/5
Selected feedback:
- “The videos were very clear about what the topics were and how to go through the problems. I absolutely loved them. They made the online course process so much easier. This is by far the best online course that I have taken.”
 - “This course was phenomenal. I have learned to hate online courses because the professor is usually largely unhelpful and material unclear. Aaron’s presentation of the material made his expectations crystal clear and his assignments were totally doable and very clear as well. I would definitely take a course from him again. He did an amazing job.”

REFEREED JOURNAL PUBLICATIONS

1. **AJ Enriquez** and DC Finnoff. (2021) Managing mortality of multi-use megafauna. *Journal of Environmental Economics and Management* 107: 102441. <https://doi.org/10.1016/j.jeem.2021.102441>.
2. DA Bagdonas, **AJ Enriquez**, KA Coddington, DC Finnoff, JF McLaughlin, MD Basilian, EH Phillips, and TL McCling. (2022) Rare earth element resource evaluation of coal byproducts: A case study from the Powder River Basin, Wyoming. *Renewable and Sustainable Energy Reviews* 158: 112148. <https://doi.org/10.1016/j.rser.2022.112148>.

PAPERS IN PREPARATION

1. **AJ Enriquez**, BT Gilbert, and LH Thunström. The pain of paying with other people’s money. Invited for revision and resubmission at *Review of Behavioral Economics*.

2. LA Richardson and **AJ Enriquez**. The economic value of wildlife tourism and implications of marginal population changes. Invited for revision and resubmission at *Human Dimensions of Wildlife*.
3. **AJ Enriquez**, M Fernandez, MH Hayden, KC Ernst, N Gregory, M Diuk-Wasser, and K Berry. What ticks people off? Linking perceived risk, economic attributes, and risk-reduction actions. In preparation for submission.
4. **AJ Enriquez**, SC Newbold, and DC Finnoff. Characterizing the conservation culture for charismatic critters. In preparation for submission.
5. AJ Marchal, **AJ Enriquez**, MD Ehmke, and CA Camargo, Jr. Free riding toward personal protection: Relating parental cooperation behavior to vaccine hesitancy. In preparation for submission.

PRESENTATIONS

- » **Association of Environmental and Resource Economists Summer Conference** **Miami, FL** **June 2022**
Presenter: Characterizing the conservation culture for charismatic critters.
- » **Institute of Social and Economic Research Seminar** **Anchorage, AK** **November 2021**
Presenter: Grizzlies in the Greater Yellowstone Ecosystem: Bioeconomic analysis and nonmarket valuation.
- » **BIOECON XXII Annual Conference** **Jackson, WY** **September 2021**
Presenter: The economic value of wildlife tourism and implications of marginal population changes.
- » **University of Wyoming-Colorado State University Graduate Student Symposium** **Laramie, WY** **April 2019**
Presenter: Bioeconomic grizzly bear management.
- » **International Institute of Fisheries Economics & Trade Biennial Conference** **Seattle, WA** **July 2018**
Presenter: From the shore or from the water? Enforcement of resource rights under discrete enforcement technologies.
- » **Geological Society of America Annual Meeting** **Denver, CO** **September 2016**
Presenter: Economic feasibility of rare earth element extraction from Wyoming coal ash/char.

SURVEY PROJECTS

- » **Tradeoffs in subsistence versus store-bought food choices: A case-study of moose hunting in a remote Alaskan community**
Collaborators: AJ Enriquez, EL Howe, Q Zheng
Survey Administration: Forthcoming (Spring 2023)
Sample Size: 200
- » **Willingness to pay for fresh and processed ugly food products**
Collaborators: AJ Enriquez, C Grebitus, Y Liu, M Vecchi
Survey Administration: Forthcoming (Fall 2022)
Sample Size: 1,600
- » **Transboundary wildlife conservation around national parks**
Collaborators: HB Flint, DE Bennett, AD Middleton, AJ Enriquez, LA Richardson
Survey Administration: July - August 2022

Sample Size: 1,000

» **Couples' preferences for spending each other's money on necessities and indulgences**

Collaborators: AJ Enriquez, BT Gilbert, LH Thunström

Survey Administration: November - December 2021

Sample Size: 1,200

» **Preferences for wind energy in Wyoming**

Collaborators: AJ Enriquez, RW Godby

Survey Administration: December 2020 - March 2021

Sample Size: 405

» **Nonmarket valuation of grizzly bears in the Greater Yellowstone Ecosystem**

Collaborators: AJ Enriquez, DC Finnoff, SC Newbold

Survey Administration: December 2020 - January 2021

Sample Size: 2,479

FIELDWORK

» **Dillingham, Alaska**

May 2022

Team: AJ Enriquez, H Hennighausen, D Holen, HF Randell

Project: 2020 COVID-19 rapid response: Pandemic preparedness in remote rural fishing communities facing rapid, massive, seasonal in-migration

Experience: Participated in interviews with fishing crew captains, local government officials (the mayor, city manager, and planning director), and employees of the Bristol Bay Native Association and the Bristol Bay Economic Development Corporation.

» **Southern Chile**

April 2018

Team: J Albers, C Chávez, J Dresdner, AJ Enriquez

Project: Small scale aquaculture as a livelihood alternative with marine conservation benefits in coastal communities in Chile

Experience: Participated in interviews with artisanal fishers, fisher organizations, and government organizations. All interviews were conducted in Spanish

FELLOWSHIPS, GRANTS, & SCHOLARSHIPS

Institute for Social Science Research, Arizona State University

» **Seed Grant**

Spring 2022

Project: Willingness to pay for fresh and processed ugly food products

Authors: C Grebitus, AJ Enriquez, M Vecchi

Amount: \$8,000

University of Wyoming

» **Carlton R. Barkhurst Dissertation Fellowship**

Spring 2021

Amount: \$9,351

» **Research Enhancement Grant, Biodiversity Institute**

Spring 2020

Project: Valuing grizzly bear conservation and viewing in the Greater Yellowstone Ecosystem

Authors: Aaron Enriquez (PI) and Dr. David Finnoff (faculty advisor)

Amount: \$9,023

» **John Tschirhart Graduate Scholarship in Bioeconomics**

Spring 2020

Department of Economics

Project: Grizzly bear management in the Greater Yellowstone Ecosystem

Amount: \$9,600

- » **Student Research & Creative Activities Grant** **Spring 2019**
Haub School of Environment & Natural Resources
Project: Economic valuation of grizzly bears
Authors: Aaron Enriquez (PI), Dr. Stephen Newbold, and Dr. David Finnoff
Amount: \$1,000
- » **Dick and Lynne Cheney Study-Abroad Grant** **Fall 2016**
Destination: Tenerife, Spain (for a grad. course on international environmental assessment)
Amount: \$600
- » **Trustees' Scholar Award** **Fall 2011 - Spring 2015**
Description: Received a scholarship that covered full tuition, mandatory fees, room and board, and meals for 8 consecutive undergraduate semesters at the University of Wyoming.

Experimental Economics Section, Agricultural & Applied Economics Association

- » **EXECON Winter School Scholar** **Spring 2020**
Description: Received a full-tuition scholarship to attend the Winter School in Survey Design and Experimental Methods in Applied and Agricultural Economics
Amount: \$1,950

Rocky Mountain Power

- » **Graduate Scholarship in Regulatory Economics**
Amount: \$1,500 **Fall 2019**
Amount: \$2,000 **Spring 2017**
Amount: \$2,000 **Fall 2015 - Spring 2016**

AWARDS

University of Wyoming

- » **Attilio & Hedy Bedont Outstanding Graduate Student Award** **April 2018, April 2020**
College of Business
- » **Best Graduate Student Teaching Award, Department of Economics** **April 2019**
- » **Top 20 Outstanding Graduate, College of Arts & Sciences** **May 2015**
- » **John S. Bugas Theory Award - Microeconomics, Department of Economics** **April 2015**
- » **M. Clare Mundell Outstanding Senior Award, College of Business** **April 2015**
- » **Dean's Award to Outstanding Seniors, College of Business** **April 2015**

SERVICE & LEADERSHIP

- » **Journal Reviewer, Environmental and Resource Economics** **2022**
- » **Journal Reviewer, Forest Science** **2020**
- » **Crisis Counselor, Crisis Text Line** **October 2017 - August 2019**
Hours: 34 hours of training, 200 hours of crisis counseling
- » **Team Captain, Men's Club Soccer, University of Wyoming** **Fall 2018**

MEMBERSHIP

- » *American Economic Association* **September 2019 - present**
- » *Association of Environmental and Resource Economists* **July 2018 - present**
- » *The Honor Society of Phi Beta Kappa* **March 2015 - present**

TECHNICAL SKILLS

- » **Programming:** R
- » **Statistical/Mathematical Software:** Mathematica, MATLAB, Stata
- » **GIS:** QGIS, ArcGIS Pro, ArcGIS Online
- » **Survey:** Qualtrics
- » **Others:** LaTeX, Microsoft Office (Word, PowerPoint, and Excel)

REFERENCES**Dr. Kevin Berry** (*postdoc supervisor*)

Associate Professor, Department of Economics
University of Alaska Anchorage
Phone: 907-764-5026
Email: kberry13@alaska.edu

Dr. David Finnoff (*PhD committee chair*)

Professor, Department of Economics
University of Wyoming
Phone: 307-766-5773
Email: finnoff@uwyo.edu

Dr. Jason Shogren (*PhD committee member*)

Professor, Department of Economics
University of Wyoming
Phone: 307-766-5430
Email: jramses@uwyo.edu

Dr. Leslie Richardson (*research task supervisor*)

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National Park Service
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Dr. Stephen Newbold (*PhD committee co-chair*)

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