

## CURRICULUM VITAE

### MATTHEW ELMER

Phone: 720-940-6859

Email: matthew.elmer@colorado.edu

1720 Kirkwood Drive, N19

Fort Collins, CO, 80525

#### EDUCATION

---

- PhD** **Colorado State University**, Economics expected May 2019  
**Dissertation:** *Three Essays Evaluating Ecosystem Services: Monetizing Disturbances, Classifying Vulnerability, and Managing Ecosystem Conditions*  
**Committee:** Robert Kling<sup>1</sup> (Advisor), Jordan Suter<sup>2</sup> (Co-Advisor), John Loomis<sup>2</sup>, Stephan Weiler<sup>1</sup>, and Travis Warziniack<sup>3</sup>  
1 Department of Economics, Colorado State University  
2 Department of Agricultural and Resource Economics, Colorado State University  
3 USDA Forest Service, Rocky Mountain Research Station, Fort Collins
- MA** **Colorado State University**, Economics May 2015
- BA** **University of Colorado Boulder**, Economics and Political Science May 2013  
Double major with an emphasis in Public Economics  
Graduated in the top 10% in each major

#### RESEARCH AND TEACHING FOCUS

---

**Primary Field:** Environmental Economics

**Secondary Fields:** Public Economics, Regional Economics, Applied Microeconomics

#### RESEARCH EXPERIENCE

---

- USDA Forest Service**, Rocky Mountain Research Station, May 2015 to May 2018  
Contracted Research Economist, Advisor Chris Miller (801-389-2500)
- Worked with the Ecosystem Management Coordination (EMC) team in an interdisciplinary setting to assess ecosystem services
  - Collaborated with the USFS Intermountain Adaptation Partnership (IAP) team to publish work assessing climate change in the Midwest
  - Assimilated and organized large sets of data and conducted original research both independently and with experts from various disciplines
  - Presented research at workshops and conferences to various types of audiences (economists, non-economists, government agencies, academic, and public)

#### TEACHING EXPERIENCE

---

- Colorado State University** Aug 2013 to current  
**Instructor**, Department of Economics
- **ECON 202: Principles of Microeconomics** Fall 2018
  - **ECON 240: Issues in Environmental Economics** Summer 2015, Fall 2015, Fall 2017 (2), Spring 2018, Summer 2018
  - **ECON 306: Intermediate Microeconomics** Fall 2018
  - **ECON 320: The Economics of Public Finance** Spring 2017, Spring 2019 (2)
  - **ECON 335: Introduction to Econometrics** Summer 2016, Fall 2016

**Graduate Teaching Assistant, Department of Economics**

- **ECON 202: Principles of Microeconomics** Fall 2013, Spring 2014, Fall 2014, Fall 2015
- **ECON 204: Principles of Macroeconomics** Spring 2015
- **ECON 304: Intermediate Macroeconomics** Spring 2016

**PEER REVIEWED PUBLICATIONS**

---

- Warziniack, Travis W., Matthew J. Elmer, Chris J. Miller, Karen S. DanteWood, Christopher W. Woodall, Michael C. Nichols, Grant M. Domke, Keith D. Stockmann, John G. Proctor, and Allison M. Borchers (2018) “Climate Change Vulnerability and Adaptation in the Intermountain Region: Chapter 13 - Effects of Climate Change on Ecosystem Services.” General Technical Report RMRS-GTR-375, Part 2: 376-403.
- Halofsky, Jessica E., Travis W. Warziniack, David L. Peterson, and Joanne J. Ho (2017) “Understanding and Managing the Effects of Climate Change on Ecosystem Services in the Rocky Mountains” *Mountain Research and Development* 37 (3): 340-352.  
Figure 3 Analysis and Map by Matthew J. Elmer

**UNPUBLISHED/IN PROGRESS WORK**

---

- Dissertation:** *Three Essays on Evaluating Ecosystem Services: Monetizing Disturbances, Classifying Vulnerability, and Managing Ecosystem Conditions* 2018
- **Chapter 1:** *Do Regular Wildfires Heat Up the Price of Drinking Water?*
  - **Chapter 2:** *Classifying Vulnerability to Climate-Induced Changes in Grazing Services*
  - **Chapter 3:** *A Framework for Optimally Managing Ecosystem Conditions*
- General Technical Report**, USDA Forest Service 2017
- *Rangeland and Grazing Vulnerability in the Intermountain West*
- Technical Advice Bulletin**, USDA Forest Service 2016
- *Assessing the Linkages between Natural Disturbances, Land Management Activities, and Drinking Water Outcomes*

**JOURNAL REVIEWS**

---

- Society & Natural Resources* 2015

**CONFERENCES AND PRESENTATIONS**

---

- **CSU Graduate Student Showcase**, Fort Collins, Colorado 2018
  - Poster presentation for dissertation chapter one: *Do Regular Wildfires Heat up the Price of Drinking Water?*
- **CSU Economics Fall Seminar Series**, Fort Collins, Colorado 2018
  - Presented first dissertation paper: *Do Regular Wildfires Heat up the Price of Drinking Water?*
- **CSU Economics Graduate Student Workshop**, Fort Collins, Colorado 2018
  - Presented first dissertation paper: *Do Regular Wildfires Heat up the Price of Drinking Water?*

- **USDA Science Partnership Workshop**, Snowbasin, Utah 2017
  - Main author on a poster presentation for USFS rangeland grazing vulnerability to climate-induced changes in the Intermountain West (presentation by Chris Miller)
- **A Community for Ecosystem Services (ACES)**, Jacksonville, Florida 2016
  - Presented USFS research on ecosystem services related to water
- **USFS Intermountain Adaptation Partnership**, Salt Lake City, Utah 2016
  - Federal and local government, NGO's, and private land managers met to discuss expected impacts of climate change on ecosystem conditions and services, focusing on adaptation strategies
- **Western Graduate Student Workshop**, Salt Lake City, Utah 2016
  - Presented research on the impact of wildfire on drinking water prices and welfare within the market for drinking water

#### **HONORS SOCIETIES**

---

<b>Omicron Delta Epsilon</b>	2015
Economics Honor Society	
<b>Golden Key</b>	2015
International Honor Society	
<b>Gamma Beta Phi</b>	2015
Community and Educational Services Honor Society	
<b>Phi Beta Kappa</b>	2012
Liberal Arts Honor Society	
<b>National Society of Collegiate Scholars</b>	2010
Academic Honor Society	

#### **AWARDS AND ACHIEVEMENTS**

---

<b>Outstanding Graduate Student Research Award</b>	2017
Department of Economics, Colorado State University	
<b>Public Economics Emphasis</b>	2013
Department of Economics, University of Colorado Boulder	

#### **COMPUTER EXPERIENCE**

---

**ArcGIS** - Geographic Information System

**Canvas, Blackboard, McGraw-Hill, Pearson** – Teaching Tools

**GAMS** - Computable General Equilibrium Analysis

**Gretl** - Statistical Analysis

**Matlab** - Dynamic Analysis

**Microsoft Office** – Access, Excel, PowerPoint, Word

**R-Studio** - Spatial Statistical Analysis

**Stata** - Statistical Analysis

## REFERENCES

---

### **Colorado State University, Department of Economics**

**Dr. Robert Kling** (Dissertation Advisor)

robert.kling@colostate.edu

970-491-5598

**Dr. Stephan Weiler** (Dissertation Committee Member)

stephan.weiler@colostate.edu

970-491-5538

### **Colorado State University, Department of Agricultural and Resource Economics**

**Dr. Jordan Suter** (Dissertation Co-Advisor)

jordan.suter@colostate.edu

970-491-2589

**Dr. John Loomis** (Dissertation Outside Member)

john.loomis@colostate.edu

970-226-4052

### **United States Department of Agriculture, Forest Service**

**Dr. Chris Miller** (Work Advisor)

chrismiller@fs.fed.us

801-389-2500

**Dr. Travis Warziniack** (Dissertation Committee Member)

twwarziniack@fs.fed.us

970-498-2566

**Dr. Susan Winter** (Co-Worker)

swinter@fs.fed.us

970-295-5726