

# Grad CV

11 Economics Street Denver, CO 80222

970-122-3344

[economics@gmail.com](mailto:economics@gmail.com)

---

## ECONOMIST WITH A BACKGROUND FOCUSED ON BIOENERGY AND ANALYTICAL MODELING

---

Economist with the abilities to apply rigorous analytics to help improve the profitability of an organization. Dedicated to conducting efficient and thorough analyses to problem solve and forecast business, industry and economic conditions. *Core competencies include:*

- Extensive background with the biofuel industry, focused on economic development and evaluation
- Familiarity with data gathering and data mining techniques
- Economic model development and enhancement, cost-benefit analysis, econometric interpretation, risk modeling, and risk analysis
- Excellent analytical and mathematical skills
- Ability to focus on one project or tackle ad-hoc tasks as needed
- Master's thesis, "The Economic Feasibility of Growing *Camelina Sativa* as a Biofuel Feedstock in Eastern Colorado"

### EXPERIENCE

---

Researcher, Colorado State University, Fort Collins, CO 2015-Present

Graduate research position at Colorado State University, with a strong focus on the in-depth economic analysis of biofuels, energy, and the agronomic development of rural areas. Projects have a strong analytical focus, with considerable risk-analysis, stochastic modeling, and enterprise budgeting. Recent projects include:

"The Economic Potential of Bio-Butanol on Marginal Lands in a Buffered Rural Economy in Western Colorado"

- **Designed a modeling program** to determine the most cost-effective feedstock mix to use
- Performed an in-depth economic analysis to evaluate the entire bio-butanol processing chain

"The Economic Feasibility of *Camelina Sativa* as a Biofuel Feedstock in Northeastern Colorado"

- **Created an economic model** to estimate the likelihood of successful integration of camelina
- Evaluated dynamic growing conditions through the use of stochastic variable analysis
- **Utilized a stochastic simulation engine** to model random iterations of key biofuel input variables
- Recreated real world conditions with spreadsheet analysis to allow for better applicability of results

"Designing a Technology-Neutral Cost-Benefit Pricing Analysis for the Electric Power Sector in Colorado"

- **Built a model to determine economic damages** linked with externalities from electrical generation
- **Estimated the cost of emissions** in per kilowatt-hour basis of electricity produced

Research Intern, SunCirc Environmental, Waltham, MA January, 2014- May, 2014

Internship with a firm that focuses on the production of recycled plastics into utensils and other similar products.

- **Helped mitigate the cost of production** through collaboration with international suppliers

*Experience continued on next page...*

### EXPERIENCE CONTINUED

---

Founder and Co-President, F.R.E.S.H. Water, 2010-2012 and Fall 2013  
“A Financially Responsible Endeavour to Serve Humanity Water”, Waltham, MA

- **Founded club** that collaborates with professors and other universities
- **Discovered cost-effective methods** to organize the resources of the club to better manage finances
- **Incorporated innovative fund raising techniques** to bring clean water to impoverished countries

Research Intern, Environmentally Preferable Products Procurement Program, Summer 2012  
Commonwealth of Massachusetts, Executive Office for Administration and Finance, Boston, MA

- **Created a quantifiable cost-benefit analysis** and environmental analysis for statewide contracts
- **Streamlined procurement process** with several product suppliers by helping to enhance relationships

### EDUCATION

---

Master of Science, Department of Agricultural and Resource Economics Expected May 2017  
*Colorado State University, Fort Collins, CO*

National Science Foundation MAS Bioenergy I.G.E.R.T. Graduate Fellow

- Competitive interdisciplinary fellowship for graduate students specializing in the study of biofuels

United States Department of Agriculture AFRI-NIFA Biofuel Education Program Graduate Fellow

- Interdisciplinary fellowship for Master’s students in the field of bioenergy

Bachelor of Arts, Economics May 2015  
*Brandeis University, Waltham, MA*

- Dean’s Award Scholarship for Academic Merit
- Dean’s list honoree every semester

*Universidad de Málaga, Málaga, Spain* (Spanish study abroad program) August 2013 – August 2014

### SELECTED AND PUBLISHED PAPERS

---

- Co-authored paper accepted at the Western Agricultural Economics Association annual meeting
- Co-authored poster accepted at the Agricultural and Applied Economics Association annual meeting
- Co-authored two papers published in “Dialogue,” a non-referred journal from the *United States Association for Energy Economics*

### PROFESSIONAL MEMBERSHIPS

---

- Agricultural and Applied Economics Association
- Western Agricultural Economics Association

### SKILLS

---

Language: **Proficient in Spanish**, Statistical Data Packages: **Proficient in Microsoft Excel and STATA**