



**José M. Rodríguez**

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# José Manuel Rodríguez Flores

## Ph.D Student Environmental Systems

**About Me** Agricultural Economist and Ph.D Student at University of California Merced in the Environmental Systems program. Specialist in water economics and coupled hydro-economic models development. Currently working on the agricultural-water system adaptation to climate change and groundwater management policies in California, US.

## Education

**2011 - 2015, Universidad Autónoma Chapingo, México**

B.S. in Economics.

**2016 - 2018, Colegio de Postgraduados, México**

M.S. in Economics.

**2019 - present, University of California, Merced**

Ph.D. in Environmental Systems.

## Experience

**February-April, 2015. Research Internship**

Oklahoma State University, School of Business.

Detailed achievements:

- Project: *Social Responsible Companies and consumer's decisions.*
- Courses on:
  - Big Data
  - Corporate Social Responsibility

**May-July, 2018. Research Internship**

University of California, Merced.

Project: Insights from a Calibrated Optimization Model for Irrigated Agriculture under Drought in an Irrigation District on the Central Mexican High Plains. Research internship with Professor Dr. Josué Medellín-Azuara

**2019 - present, Graduate Student Researcher**

University of California, Merced.

Projects:

- Hydro-economic analysis of the Sustainable Groundwater Management Act in Kern County, California,
- Agricultural Production Model of the Sacramento-San Joaquin Delta.

Tasks:

- Modeling development using Python.
- Economic analysis of agriculture and water policy.

## Publications

**2019, Peer-reviewed Journal Article**

Rodríguez-Flores, J.M.; Medellín-Azuara, J.; Valdivia-Alcalá, R.; Arana-Coronado, O.A.; García-Sánchez, R.C. Insights from a Calibrated Optimization Model for Irrigated Agriculture under Drought in an Irrigation District on the Central Mexican High Plains. *Water* 2019, 11, 858.



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## Selected Conferences

### *2020, Conference Poster and Abstract*

Jose M Rodriguez Flores, Spencer Cole, Jorge A Alberto Valero Fandino, Keyvan Malek, Tina Karimi, Harrison Bray Zeff, Alvar Escrive-Bou, Josue Medellin-Azuara, Global Sensitivity Analysis for a coupled Hydro-economic model under a groundwater management policy in Kern County, California. AGU Fall Meeting 2020, 2020.

## Software Skills

### Programming

- Matlab
- R
- Python
- GAMS
- Stata
- LaTeX

## Awards

### *2015, Graduated with honors.*

Universidad Autonoma Chapingo, Bachelors degree.

### *2016-2018, Graduate Scholarship for excellence*

National Science and Technology Council of México.

### *2019-present, Graduate Scholarship for Ph.D studies*

UC-Mexus-National Science and Technology Council of México

## Interests

### Professional

Hydro-economic modeling, water policies, agricultural economics, water governance

### Personal

Yoga, running, nature and art enthusiast.