


# MAURICIO URIONA MALDONADO

[1] "My research is focused on accelerating the transitions towards sustainable and low-carbon economies by studying the case of Developing Countries. I use system dynamics models to inform public policy and sustainability transitions theoretical frameworks to ground my findings. I lead the Sustainable Energy Innovation Group (Sinergia) at UFSC. My research has been published in several journals and in specialized conferences across the world. I held visiting positions at Universidad Autonoma de Madrid (Spain), University of Tampere (Finland) and University of Bremen (Germany) and received training at the Massachusetts Institute of Technology (USA)."

## EDUCATION


- 2012**  
|  
**2008**  
**PhD. in Knowledge Management and Engineering**  
Federal University of Santa Catarina  Florianopolis, Brazil
  - PhD Dissertation: Sectoral Innovation Dynamics, Innovation Systems, System Dynamics, IT Sector
  - CAPES Fellow, PEC-PG. Supervised by Prof. G. Varvakis
  - Co-supervised by Prof. V. Kern (UFSC) and Prof. R. Pietrobon (Duke University)
- 2008**  
|  
**2006**  
**M.Sc. in Knowledge Management and Engineering**  
Federal University of Santa Catarina  Florianopolis, Brazil
  - Thesis: Business Process Management, System Dynamics, IT Sector
  - CNPq Fellow, PEC-PG. Supervised by Prof. G. Varvakis
- 2004**  
|  
**2000**  
**B.S. in Industrial Engineering**  
Military School of Engineering (EMI)  La Paz, Bolivia
  - Thesis: Strategic Planning, Service Industry


## TEACHING EXPERIENCE

- Current**  
|  
**2013**  
**Associate Professor**  
Federal University of Santa Catarina  Florianopolis, Brazil
  - Department of Industrial and Systems Engineering
  - Courses taught in Undergraduate Level: Decision Analysis, IT Management/Data Science, Microeconomics, Ethics in Business
  - Courses taught in Graduate level: System Dynamics Simulation, Innovation and Industrial Economics, Renewable Energy Economics
- 2012**  
|  
**2009**  
**Teaching Assistant**  
Federal University of Santa Catarina  Florianopolis, Brazil
  - Department of Information Science
  - TA in the course "Service Organizations"

View this CV online with links at <https://cv.muriona.netlify.app/>

## CONTACT

Born and raised in La Paz, Bolivia 

Lives in Florianopolis, Brazil 


Age: 39 years old

 [m.uriona@ufsc.br](mailto:m.uriona@ufsc.br)

 [sinergia.ufsc.br](http://sinergia.ufsc.br)

 [github.com/muriona](https://github.com/muriona)

 [linkedin.com/uriona](https://linkedin.com/uriona)

 [orcid: 0000-0002-1174-4828](https://orcid.org/0000-0002-1174-4828)





[researchgate.net/Mauricio-Uriona-Maldonado](https://researchgate.net/Mauricio-Uriona-Maldonado)

## LANGUAGE

### SKILLS

English
Portuguese
Spanish (Native)
French

## SPECIFIC SKILLS

 **Programming:** RStudio, System Dynamics (Stella and Vensim), Tableau  
 **Other:** data analysis, data visualization, machine learning

Datacamp

Coursera

EDx

Linkedin Learning

Tableau for Teaching



## TRAINING ABROAD

2017  
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2017



### Visiting Professor

University of Bremen

📍 Bremen, Germany

- Visiting Professor at the Bremen Institute for Production and Logistics
- CAPES-DFG Fellow

2017  
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2017



### System Dynamics Training

MIT

📍 Boston, USA

- MIT Sloan School of Management
- Advanced Course in System Dynamics

2015  
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2015



### Visiting Professor

University of Tampere

📍 Tampere, Finland

- Visiting Professor in Innovation Policy

2011  
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2011



### Visiting Researcher

Autonomous University of Madrid

📍 Madrid, Spain

- Visiting Scholar at the Economics and Business Faculty
- EU 7th Framework Programme - Marie Curie Actions

2011  
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2011



### PhD School on Innovation Systems

University of Tampere

📍 Tampere, Finland

- Globelics PhD School



## INDUSTRY EXPERIENCE

2013  
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2012



### Consultant

Industry Federation of Santa Catarina

📍 Florianopolis, Brazil

- Consultant in Innovation Management
- CNPq/NAGI Fellow
- Served small, medium and large enterprises in Santa Catarina State

2010  
|  
2009



### Researcher

Celesc Distribuicao

📍 Florianopolis, Brazil

- Strategic Outsourcing in the Energy Sector
- Conducted interviews and developed framework for outsourcing decisions for Celesc (the Power Distribution Company in SC State)

2008  
|  
2005



### Business Analyst

Dinamica Software

📍 Florianopolis, Brazil

- Designed and assessed in new product development (ERP system)
- Helped in financial management



## SELECTED PUBLICATIONS

- 2022  
|  
2022
- **The evolution, consolidation and future challenges of wind energy in Uruguay**  
Energy Policy  
• Authored with Correa, KC; Vaz CR
- 2021  
|  
2021
- **A Systems Modeling approach to estimate biogas potential from biomass sources in Brazil**  
Renewable And Sustainable Energy Reviews  
• Authored with Borges CP; Sobczak JC; Silberg TR (USA); Vaz CR
- 2021  
|  
2021
- **Modeling Smallholder Agricultural Systems to Manage Striga in the Semi-Arid Tropics**  
Agricultural Systems  
• Authored with Silberg TR; Renner K; Schmitt Olabisi L; Richardson RB; Chimonyo VGP; Basso BB; Mwale C from the USA
- 2020  
|  
2020
- **The Influence of E-Carsharing Schemes on Electric Vehicle Adoption and Carbon Emissions: An Emerging Economy Study**  
Transportation Research Part D: Transport and Environment  
• Authored with Luna TF; Silva ME (France); Vaz CR
- 2020  
|  
2020
- **The Influence of Company Size on Energy Management Systems adoption: A System Dynamics Model**  
Brazilian Business Review  
• Authored with Reis C; Benvenuti L; Campos L
- 2020  
|  
2020
- **Dynamics Performance of the Wind-Power Supply Chain with Transmission Capacity Constraints**  
International Journal of Electrical and Computer Engineering  
• Authored with Herrera MM; Dyner I from Colombia
- 2019  
|  
2019
- **Dynamics of Stress Generation And Reduction In the Nursing Team at an Oncology Center**  
Revista Latino-Americana de Enfermagem  
• Authored with Santana JLG; Gontijo LA
- 2019  
|  
2019
- **The Impact of CO<sub>2</sub> Mitigation Policies on Light Vehicle Fleet in Brazil**  
Energy Policy  
• Authored with Benvenuti LM; Campos L
- 2019  
|  
2019
- **Product-Service Systems in Solar PV Deployment Programs: What can we learn from the California Solar Initiative?**  
Resources, Conservation and Recycling  
• Authored with Schmidt-Costa Jr; Possamai O

- 2018  
|  
2018

● **Diffusion of Photovoltaic Technology in Germany: A Sustainable Success or an illusion driven by guaranteed Feed-In Tariffs?**

Energy

• Authored with Baur L (Germany)
- 2018  
|  
2018

● **Potential of a Multi-Agent System Approach for Production Control in Smart Factories**

Ifac-Papersonline

• Authored with Leusin ME; Kuck M; Frazzon EM; Freitag M from Germany
- 2018  
|  
2018

● **Improvement In Public Administration Services: A Case Of Business Registration Process**

International Journal of Industrial Engineering and Management

• Authored with Andersson R; Bridi E; Baez YP; Forcellini F; Moraes FC
- 2017  
|  
2017

● **Long Term Diffusion Dynamics Of Alternative Fuel Vehicles In Brazil**

Journal of Cleaner Production

• Authored with Benvenutti LM; Ribeiro A
- 2017  
|  
2017

● **A Functions Approach To Improve Sectoral Technology Roadmaps**

Technological Forecasting and Social Change

• Authored with Haddad CR (Sweden)
- 2016  
|  
2016

● **Process Improvement For Professionalizing Non-Profit Organizations: Bpm Approach**

Business Process Management Journal

• Authored with Haddad CR (Sweden); Ayala DHF (Colombia); Forcellini F; Lezana GR
- 2015  
|  
2015

● **Big Data and Business Analytics in the Supply Chain: A Review of the Literature**

IEEE Latin America Transactions

• Authored with Gimenez Isasi NK; Morosini Frazzon E
- 2012  
|  
2012

● **State Of The Art On The Systems Of Innovation Research: A Bibliometrics Study Up To 2009**

Scientometrics

• Authored with Dos Santos RNM; Varvakis G

## PUB RECORD

**59** Journal Publications  
**5** Books  
**29** Book Chapters  
**59** Journal Publications  
**138** Conference Papers

See full details in the online cv [here](#)