

CAROLINE RODRIGUES VAZ

Dr. Vaz is an expert in sustainability with special focus on Sustainability Transitions and intellectual capital in industrial sectors. Her recent research projects entail the context of Electric Mobility and Biogas power generation in Brazil. Dr. Vaz is also a prolific scholar with over 100 journal and conference publications. She is also an expert in advanced methods of literature review integrating quantitative statistical approaches in bibliometrics with qualitative content analysis.

EDUCATION

- 2012
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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
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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
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2000
- **B.S. in Industrial Engineering**
Military School of Engineering (EMI) 📍 La Paz, Bolivia
 - Thesis: Strategic Planning, Service Industry

ACADEMIC EXPERIENCE

- Current
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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
- 2025
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2022
- **Associate Professor Extraordinary**
Stellenbosch University 📍 Stellenbosch, South Africa
 - Department of Industrial Engineering
 - Invited Position
- 2013
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2009
- **Research Associate**
Duke University 📍 Durham, NC, US
 - Research on Research Group
 - Under the lead of Dr. Ricardo Pietrobon
 - Conducted research on system dynamics and Science and Technology Policy

View this CV online with links at https://cv_muriona.netlify.app/

CONTACT

Born and raised in Ponta Grossa, Brazil 🇧🇷

Lives in Florianopolis, Brazil 🇧🇷

Age: 36 years old

✉ caroline.vaz@ufsc.br

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LANGUAGE SKILLS

English

Portuguese

Spanish (Native)

French

SPECIFIC SKILLS

System Dynamics

Bibliometrics

Data Visualization

Data Analysis

Machine Learning

PROGRAMMING SKILLS

📺 NVivo

📺 VOSViewer

📺 CITNetExplorer

📺 Bibliometrix

RevMan

📺 Factory Design Utilities

Made with [pagedown](#), an R package.

Last updated on 26-Nov-2022.

2012
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2009

● **Teaching Assistant**
Federal University of Santa Catarina
• Department of Information Science
• TA in the course "Service Organizations"

📍 Florianopolis, Brazil



VISITING POSITIONS

2017
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2017

● **Visiting Professor**
University of Bremen
• Visiting Professor at the Bremen Institute for Production and Logistics
• CAPES-DFG Fellow

📍 Bremen, Germany

2017
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2017

● **System Dynamics Training**
MIT
• MIT Sloan School of Management
• Advanced Course in System Dynamics

📍 Boston, USA

2015
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2015

● **Visiting Professor**
University of Tampere
• Visiting Professor in Innovation Policy

📍 Tampere, Finland

2011
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2011

● **Visiting Researcher**
Autonomous University of Madrid
• Visiting Scholar at the Economics and Business Faculty
• EU 7th Framework Programme - Marie Curie Actions

📍 Madrid, Spain

2011
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2011

● **PhD School on Innovation Systems**
University of Tampere
• Globelics PhD School

📍 Tampere, Finland



INDUSTRY EXPERIENCE

2013
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2012

● **Consultant**
Industry Federation of Santa Catarina
• Consultant in Innovation Management
• CNPq/NAGI Fellow
• Served small, medium and large enterprises in Santa Catarina State

📍 Florianopolis, Brazil

2010
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2009

● **Researcher**
Celesc Distribuicao
• Strategic Outsourcing in the Energy Sector
• Conducted interviews and developed framework for outsourcing decisions for Celesc (the Power Distribution Company in SC State)

📍 Florianopolis, Brazil

2008
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2005

● **Business Analyst**
Dinamica Software
• Designed and assessed in new product development (ERP system)
• Helped in financial management

📍 Florianopolis, Brazil

Learning online from:

Datacamp
Coursera
Udemy
MapData
Academia

Noteworthy International Collaborations

w/ Prof. Peter Wells 🇬🇧
w/ Prof. Minelle Silva 🇫🇷
w/ Prof. Guillermo Davila 🇲🇽
w/ Prof. Sebastian Oliva 🇨🇱



SELECTED PUBLICATIONS

- 2022
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2022
- **A multi-country simulation-based study for end-of-life solar PV panel destination estimations**
Sustainable Production and Consumption
• Authored with Marcuzzo, R; de Araujo WC; Vaz CR
- 2022
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2022
- **The evolution, consolidation and future challenges of wind energy in Uruguay**
Energy Policy
• Authored with Correa, KC; Vaz CR
- 2021
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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
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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
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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
- 2019
|
2019
- **The Impact of CO2 Mitigation Policies on Light Vehicle Fleet in Brazil**
Energy Policy
• Authored with Benvenuti LM; Campos L
- 2019
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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
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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)
- 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

PUB RECORD

59 Journal Publications
10 Books
32 Book Chapters
212 Conference Papers

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