Edgar Rodríguez Huerta

Curriculum Vitae, August 2020 | Interactive resume:



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EDUCATION

March 2020	Universitat Politècnica de Catalunya (UPC) Institute of Sustainability and Laboratory of Measurement and Modeling of Sustainability (SUMMLAB) (Barcelona, Spain)
	Ph.D. in Sustainability.
	Dissertation: Water societal metabolism in Yucatan Peninsula, Mexico (YP). Application of Multi-Scale Integrated Analysis of Societal and Ecosystem Metabolism (MuSIASEM).
2019	Doctoral stay: Instituto Tecnológico de Mérida, Yucatán México (January -19 to April-19)
2013-15	Universitat Politècnica de Catalunya Institute of Sustainability (Barcelona, Spain)
	Master's degree in Sustainability Science and Technology (120 ECTS) (Grade: 8.9/10 Rank 2/12)
	Dissertation: Analysis of the metabolic viability of energy plans in Catalonia using the MuSIASEM (Multi-Scale Integrated Analysis of Societal and Ecosystem Metabolism).
2007-08	Zaragoza Logistics Center (Zaragoza, Spain)
	Master's degree in Logistics. (105 ECTS) (Grade: 9.1/10)
	Dissertation: Sustainability Balanced Scorecard methodologies for logistics companies.
2002-07	<i>Instituto Tecnológico de Mérida (Yucatán, México)</i> University degree in Industrial Engineering. (Grade: 9.4 / 10)

PUBLICATIONS, PEER REVIEWED

2019	A water balance model to estimate climate change impact on groundwater recharge in
	Yucatan Peninsula, Mexico. Journal: <i>Hydrological Science Journal</i> . Volume 65 Issue 3,
	Pages 470-486 https://doi.org/10.1080/02626667.2019.1702989
	H index: 90, JCR IF 2019: 2.186 (Q2), SJR 2019: 0.92 (Q1)
2019	Water societal metabolism in the Yucatan Peninsula. The impact of climate change on the recharge of groundwater by 2030. Journal: <i>Journal of Cleaner Production</i> . Volume 235, October 2019, Pages 272-287 https://doi.org/10.1016/j.jclepro.2019.06.310
	H index: 173, IF JCR 2019: 7.246 (Q1), SJR 2019: 1.89 (Q1)
2017	A societal metabolism approach to job creation and renewable energy transitions in Catalonia. Journal: <i>Energy Policy</i> , Volume 108, Sep 2017, Pages 551-564 https://doi.org/10.1016/j.enpol.2017.06.024
	H index: 197, IF JCR 2019: 5.042 (Q1), SJR 2019: 2.17 (Q1)

GRANTS AND FELLOWSHIP

GIVANTS AND I ELECTISINI		
2015-19	CONACYT-Mexico under Ph.D. grant number 220474	
2014-15	CONACYT-Mexico under Master grant number 220474	
2014,2015	AGAUR Fellowship for Directed Academic Activities (AAD) by Agència de Gestió d'Ajuts	
	Universitaris i de Recerca, Generalitat de Catalunya, Spain	
	2014 AAD2_00605 (March-14 to May-14) 2014 AAD3_00267 (January-15 to July-15)	

TEACHING, DEPARTMENT TALKS AND SERVICE TO PROFESSION

- 2019 Course: "Data management and visualization for academic research. Introduction to Tableau" for Master's degree students (IT Mérida). Duration:12 hours (Apr 6-8)
- 2019 Collaboration and co-supervision MSc students (IT Mérida) (4 months)
- Journal manuscript reviewer: Journal of Cleaner Production, Energy Policy.
- 2016 Course: "Societal Metabolism: Introduction to the MuSIASEM methodology" for Master's degree students (Instituto Tecnológico de Mérida). Duration: 4 hours (June 8).

CONFERENCE ACTIVITY

- 2019 Earth Day, 2019 (May 7 9). Instituto Tecnológico de Mérida (*Mérida*, *México*) "Prospective of sustainability in the Yucatan Peninsula aquifer"
- Innovation Match MX 2015-2016 (April 6-8). 1st International Forum of Mexican Talent. (*Guadalajara, Mexico*). http://innovationmatchmx.com/language/es "Study of the trend of renewable energies in Catalonia from the metabolic pattern."
- Seminary: 7th International Seminar on Sustainable Technology Development.

 Sustainable Clothing: Production and Consumption (Vilanova i la Geltrú, Spain).

 Case study: A local booming sustainable clothing market in Catalonia. Applying the Participatory Backcasting

EXTRA TRAINING

- 2020 MOOC: Ecosystem Services: A Method for Sustainable Development. University of Geneva (Coursera) (24h).
- 2020 MOOC: Objetivos del Desarrollo Sostenible para América Latina y el Caribe. Universidad de los Andes, Colombia (Coursera) (18h).
- MOOC: Sustainability of Social-Ecological Systems: The Nexus between Water, Energy, and Food. Universitat Autònoma de Barcelona (Coursera) (48h)
- 2018 MOOC: 'Writing in science.' Stanford University (Coursera) (40h).
- 2014 Course: Training Days on Multi-Scale Integrated Analysis of Societal and Ecosystem Metabolism (MuSIASEM). Organized by Liphe 4 (September 8-10) (*Terrassa*, *España*).

NON-ACADEMIC EXPERIENCE

- 2010-13 *JLC Corporation. Consulting and business solutions based on IT tools* (*Yucatan, México*) Senior Project Manager and Business Intelligence Specialist.
 - Managed BI and Enterprise Resource Planning (ERP) implementations.
 - Performed big data analysis, pre-processing raw data, data cleaning and data wrangling.
 - Developed ETL processes (Extract-Transform-Load) for databases (SQL and MySQL).
 - Designed dashboards to present reports to stakeholders.
 - Trained and supported customers.

SKILLS AND LANGUAGES

- Proficient: MS Office, Tableau, R, QGIS, Mendeley.
- Intermedium: SQL, MySQL, Tableau Prep, Netlogo, Cropwat.
- Basic: Python, Power BI, Vensim, InVEST.

English: Fluent. IELTS 7.0 (C1) Test date: November 2019

Spanish: Native language

REFERENCES

- Martí Rosas-Casals, Ph.D. (Doctoral director) <u>marti.rosas@upc.edu</u> +34 93 7398060 <u>https://futur.upc.edu/MartiRosasCasals</u>
- Laura Hernández-Terrones, Ph.D. (Doctoral co-director) <u>lmhernandez@ucaribe.edu.mx</u> <u>https://www.researchgate.net/profile/Laura_Hernandez-Terrones_+52_998_881_4400_ext._1279</u>