**Vianey Rueda**

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**Research Interests**

Interdisciplinary research— socio-economic, hydrologic, political, and legal— pertaining to management and planning of binational water basins through continued interaction with local communities for the purpose of co-production of knowledge and sustainable use of water.

**Academic History**

**University of Michigan at Ann Arbor Ann Arbor, Michigan**

*PhD- Environment and Sustainability: Resource Ecology and Management 2027 (expected)*

**University of Texas at Austin Austin, Texas**

*MS- Energy and Earth Resources August 2021*

* Thesis: System Dynamics Modeling in Local Water Management: Assessing Strategies for the City of Boerne, Texas
* Thesis Advisor: Michael Young, Bureau of Economic Geology
* GPA- 3.89
* Courses related to field of study: Energy Technology and Policy; Geology of Earth Resources; Energy Finance Practicum; Water Resources Planning/Management; Statistical Analysis/Learning; Ecohydrology/Biometeorology; Urban Systems Engineering; Applied Probability; Seminar in Water Law and Policy.

**Dartmouth College Hanover, NH**

*BA- Double Major in Environmental Studies and Government June 2019*

* Senior Honors Thesis- Water and land in the Dominican Republic: Exploring the feasibility of resource co-management
* Thesis Advisor: Professor Michael E. Cox
* GPA- 3.72
* Courses related to field of study- Environmental Law; How the Earth Works; Global Environmental Science; Environmental Economics and Governance; Governing the Environment; Ecological Agriculture; Introduction to Environmental Statistics; Energy and the Environment.

**London School of Economics and Political Science London, England**

*Study Abroad September 2017 – November 2017*

**Publications**

**Peer Reviewed**

Rueda, V.; Young, M.H.; Faust, K.; Rateb, A.; Leibowicz, B.D. System Dynamics Modeling in Local Water Management: Assessing Strategies for the City of Boerne, Texas. Water **2022**, 14, 3682. <https://doi.org/10.3390/w14223682>.

**Non-Peer Reviewed**

Young, Michael & Vianey Rueda. “The Internet of Water for Cities.” Internet of Water. July 2021. <https://internetofwater.org/blog/an-internet-of-water-for-cities/>.

**RESEARCH/TEACHING EXPERIENCE**

**Graduate Research Assistant April 2021 – August 2021**

*University of Texas at Austin, Austin, Texas*

*Supervisor: Zoltan Nagy*

* Produced a literature review on the different ways gent-based modeling has been used to model the electric grid. This included energy markets, consumer behavior, network type/structure, HVAC, and reinforcement learning.

**Teacher’s Assistant December 2020 – May 2021**

*University of Texas at Austin, Austin, Texas*

*Supervisor: Dave Tuttle*

* Helped students develop scope for final papers, answered homework and lecture questions, and suggested data sources.
* Assisted in developing homework and exams.
* Managed the Canvas webpage: grading, uploading materials, Zoom meetings.

**Research Assistant April 2017 – April 2018**

*Dartmouth College, Hanover, NH*

*Supervisor: Michael E. Cox*

* Produce a literature review on certification schemes for sustainable rice to assist in the decision-making on viable plans for the ArroEcoz Association of rice farmers of Montecristi, Dominican Republic.
* Integrate data from questionnaires used to interview fishermen into a database so that they may be transferred and analyzed in Stata.

**Environmental Statistics Tutor January 2018 – March 2018**

*Dartmouth College, Hanover, NH*

* Generate learning material and notes to facilitate course material to the tutee.
* Supervise the progress of the tutee through weekly meetings.

**PROFESSIONAL HISTORY**

**Self-Employed- Farm Co-Owner July 2015 – Today**

*Family Farm, Chihuahua, Chihuahua, Mexico*

* Aid in executing logistical work of the family farm.
* Supervise the management of animals, crops, soil and water, including samples for analysis.
* Assist in marketing of products produced on the farm.

**Data Architect October 2021 – July 2022**

*City of Boerne, Boerne, Texas*

* Store, publish, and catalog water-related data for design and development of a dashboard. Visit dashboard at: <https://boerne-water-dashboard.com/>
* Facilitate conversations with stakeholders to advance data integration and processing.

**Interpreter September 2021 – October 2022**

*MasterWord, Austin-San Antonio, Texas*

* Bridge communication gaps by converting spoken or written information from English to Spanish.
* Serve as a culture broker to avoid possible misunderstandings.

**SCHOLARSHIPS AND GRANTS**

Rackham Merit Fellowship **August 2022**

* Students are nominated prior to beginning a graduate program at the University of Michigan and awardees are chosen based on their superior academic achievement.

Downey Family Prize in Environmental Studies **June 2019**

* Awarded to outstanding graduating seniors who embody excellence in the classroom and in independent research.

Energy and Earth Resources Fellowship **March 2019**

* Awarded in recognition of my academic achievements and potential for future success.

Charles G. and Alma Milham Grant **September 2018**

* Presented to seniors who receive financial aid from Dartmouth College.

Rees-Jones Family Scholarship **September 2018**

* Scholarship received from Dartmouth College.

Dartmouth Undergraduate Advising and Research- Senior Honors Thesis Grant  **May 2018**

* Funding for research to be done in the Dominican Republic as part of a Senior Honors Thesis.

Bill and Melinda Gates Scholarship/Gates Millennium Scholarship **April 2015**

* Awarded to students that demonstrate excellent academic achievement, leadership skills and a commitment to community service.

**HONORS & AWARDS**

High Honors in Environmental Studies Major **June 2019**

Excellence in Dartmouth’s Management and Leadership Development Program **May 2018**

**SKILLS & CERTIFICATIONS**

* Fluent in Spanish and English (reading, writing, speaking)
* Software: MATLAB, AnyLogic, R, Vensim PLE, Stata, QGIS, and AWS
* Microsoft Word and Excel
* Project and team management
* Data analysis and maintenance
* Public speaking
* Technical documentation
* OSHA Certified- General Industry  **March 2013**

**COMMUNITY SERVICE**

Summer Enrichment at Dartmouth (SEAD)

* Mentor a high school freshman as they participate in Dartmouth’s summer program and through the remainder of their high school career.

Dartmouth Bound Summer Program

* Mentor a group of upcoming high school seniors- female and male- as they visit Dartmouth College’s campus and through the remainder of their senior year; describe what academic and social life at Dartmouth are like.

FUERZA

* This organization was created for students who wish to teach English, through a series of lesson plans, to farm workers of the New Hampshire/Vermont area.

Hispanic Scholarship Fund Youth Leadership Institute

* Attend a conference to mentor a group of high school senior Hispanic women and assist them with the college application process.

El Pasoans Fighting Hunger

* Sort through packages of donated food in order to provide quality food to those in hunger.

San Elizario High School

* Advise and assist high school senior and juniors with the college application process as well as seeking financial aid.

**EXTRACURRICULAR ACTIVITIES**

* Seminar Co-Chair for the Doctoral Organizing Committee of the University of Michigan’s School for Environment and Sustainability
* Member of the PhD Handbook Revision Committee
* AAU Basketball Coach – Lady Wolves (5th – 6th Grade)
* Personal trainer for competitive basketball
* Tutor