

Biotechnology Engineering student with experience in **R&D** and innovative **biomedical research**. Have led and participated in international nonprofit initiatives to boost the development of the global and Latin American bioeconomies through **science communication** and **evidence-based policymaking**.

Education

Monterrey Institute of Technology and Higher Education (ITESM).

B.S., Biotechnology Engineering, Major in Bioprocess Engineering.

AUG 2015 - JUN 2020
Guadalajara, MX

Research experience

R&D Associate - Veritas Nanosystems.

- Optimized formulations of novel nanotechnology-based products for skin care and animal health.
- Conducted marketing research for customer preference.
- Adapted scientific concepts and research data to bridge the communication between the R&D and marketing teams.

JAN 2019 - JUN 2019
Boston, MA, USA

Research Assistant - Harvard Medical School & Brigham and Women's Hospital (BWH).

Research internship at the Molecular NanoSystems research group at the Harvard-MIT HST. Supervisors: Guillermo Ruiz-Esparza MD, PhD and Joseph V. Bonventre, MD, PhD, Chief of the Renal Division at BWH.

- Led projects on the manufacture of nanosystems to tackle different kidney and cardiac diseases,
- Managed up to four projects in parallel; delegated tasks and trained new students.
- Co-authored several manuscripts; currently in process or submitted.
- Presented my work at the 21st Future of Health Technology Summit at MIT and at the Gulf Course Undergraduate Symposium at Rice University.

JUL 2018 - JUN 2019
Boston, MA, USA

Other experience

Co-Founder - Bridges for Science.

Nonprofit initiative that aims to foster the institutionalization of evidence-based policymaking in Latin America. It was born at the Shaping Horizons 2019 Summit at the University of Cambridge, UK.

SEP 2019 - TODAY
Cambridge, UK
Guadalajara, MX

Marketing Co-Director of GapSummit 2019 (<https://2019.gapsummit.com/>).

Annual world-class biotechnology leadership summit that brings together *100 Leaders of Tomorrow* as well as current leaders of the biotech industry to find solutions for the most pressing challenges of the global bio-economy.

- Coordinated marketing efforts to promote the event and to attract successful candidates during the application period.
- Implemented marketing strategies to expand our reach, especially in Latin America, East Europe, Southeast Asia and Africa.
- Recruited and coordinated marketing ambassadors.

JUL 2018 - JUN 2019
Boston, MA, USA

Co-Founder - Youth Biotech.

Student-run nonprofit that promotes youth participation in science communication and science regulation. Main efforts rely on our contributions to the biannual UN Convention on Biological Diversity as representatives of young scientists in this international policymaking process.

JAN 2017 - TODAY
Guadalajara, MX

Publications

Mildred G. Jimenez-Rodriguez. *Science students lend their voice at Cancun meet.* (2016). The Petri Dish, Malaysia. Opinion article regarding youth participation at the 2016 UN Biodiversity Conference. <https://thepetridish.my/> (Upon request). Edited by Dr Mahaletchumy Arujanan.

In process or submitted:

Xichi Wang, Zongtao Liu, Diego A. Sandoval-Salaiza, Samson Afewerki, **Mildred G. Jimenez-Rodriguez**, Lorena Sanchez-Melgar, Gabriela Güemes-Aguilar, David Gonzalez, Oscar Noble, Cecilia Lerma, Roberto Parra-Saldivar, Dario R. Lemos, Jiawei Shi, Robert Langer, Joseph Bonventre, Nianguo Dong, Guillermo U. Ruiz-Esparza. *A Nanostructured Self-healing and non-Newtonian Drug Delivery Barrier Prevents Postoperative Intrapericardial Adhesions.* **Submitted December 2019.**

Mildred G. Jimenez-Rodriguez, Luis Garcia, Dennis Eriksson. *Scope and Terminology of Digital Sequence Information in Relation to the Convention on Biological Diversity.* **Forthcoming.**

Mildred G. Jimenez-Rodriguez, Xichi Wang, Gabriela Güemes-Aguilar, Lorena Sanchez-Melgar, Samson Afewerki, Diego A. Sandoval-Salaiza, Joseph Bonventre and Guillermo U. Ruiz-Esparza. *Site-Specific Nanoparticle-based Drug Delivery for the Treatment of Polycystic Kidney Disease.* **Forthcoming.**

Lorena Sanchez-Melgar, **Mildred G. Jimenez-Rodriguez**, Xichi Wang, Gabriela Güemes-Aguilar, Samson Afewerki, Joseph Bonventre and Guillermo U. Ruiz-Esparza. *Development and Fabrication of an Artificial Nanocomposite for Skin Reconstruction.* **Forthcoming**

Gabriela Güemes-Aguilar, **Mildred G. Jimenez-Rodriguez**, Xichi Wang, Lorena Sanchez-Melgar, Samson Afewerki, Joseph Bonventre and Guillermo U. Ruiz-Esparza. *Development of a Molecular Nanosystem for Intracellular Delivery of Genetic Material.* **Forthcoming.**

Presentations

Invited speaker. **Mildred G. Jimenez-Rodriguez.** *What is the future of Nanoparticle based Drug Delivery?.* May 2019. The 21st Future of Health Technology Summit at the Massachusetts Institute of Technology. Boston, MA, USA. <http://www.fhti.org/> and <https://youtu.be/fcAPDLS0JFE>.

Speaker. **Mildred G. Jimenez-Rodriguez**, Xichi Wang, Gabriela Güemes-Aguilar, Samson Afewerki, Diego A. Sandoval Salaiza, Joseph Bonventre and Guillermo U. Ruiz-Esparza. *Site-Specific Nanoparticle-based Drug Delivery for the Treatment of Polycystic Kidney Disease.* October 2018. At the Gulf Course Undergraduate Symposium. Rice University, Houston, TX, USA.

Courses/Certifications

2017 – Risk Analysis certification by the Mexican Association for Biosafety.

Language Skills

Spanish – Native
English – Fluent (640 points TOEFL paper test)
French – Intermediate

Awards and Achievements

2019

Top 150 Young Leaders from Latin America and UK.
Shaping Horizons Summit. University of Cambridge, UK
<https://bit.ly/2ZTcoqg>

Top 100 Young Leaders contributing to SDG 2: Zero Hunger.
By Bayer Crops Science. Brasilia, Brazil. <https://bit.ly/37BvKD8>

2018

Youth Delegate at the UN Convention of Biological Diversity
Youth Biotech. Sharm El-Sheikh, Egypt.

2017

Bronze medal at iGEM Competition
PHAgave project. Boston, MA, USA.

Top 100 Latin American Young Leaders in Biotech
Allbiotech. Pontificia Universidad Católica de Chile.
Santiago, Chile. .

100 Leaders of Tomorrow
Global Biotech Revolution. GapSummit 2017. Georgetown University. Washington, D.C., USA.

Hobbies

Travel | Muay Thai boxing | Exercising | Acting | Short film production | Outdoor activities