

---

## CV

### Mariana Ortega

+52 775 128 8815  
mariana.ortegar@gmail.com

---

Mexican  
Born 1988

---

Learner  
Thinker  
Problem solving  
Responsibility

---

## Work

Nov 2021 - Present

### Analyst at EarthShift Global

- Life Cycle Analysis studies
- Handprint assessments

2015 – Present

### Freelance consultant

- GHG emission calculations
- Carbon footprint reduction
- Climate policy programs: BUR, NDC, SDG, NAMA, MRV, Offsets.

2014 – 2015

### Climate change specialist at CMM

- Guidebook for local climate programs.
- Climate Policies for Agriculture and Forestry sectors in Mexico.
- Air quality management evaluation in Mexico.

2013 – 2014

### Project engineer at mgm Innova

- NAMA in Agriculture.

2011 – 2012

### Jr. Consultant at FAO Mexico office

- Baseline for public policy program “sustainability of natural resources”.

---

## off Work

*Alianza por Nuestra Tortilla* – organizing member of collective doing non-for-profit activities promoting sustainable food systems in Mexico with maize tortilla at the center.

*Pulsos* – organizing member promoting love and care for biodiversity through art and community engagement.

*Agromas* – learning and practicing landscape regeneration and food production.

*Comida Correcta* - cooking and social entrepreneurship.

---

## Interests

Biobased economy, circularity, aesthetics, community, family, buddhism, yoga, wildlife, the rural, leaving no one behind.

---

## Education

2015 - 2017

### M.Sc. Industrial Ecology

Leiden University & TU Delft, The Netherlands | Graz University, Austria.

2006 – 2010

### Environmental Engineering

National Polytechnic Institute, Mexico | Técnico Lisboa, Portugal.

---

## Skills

Research & writing

Interviewing

Facilitation

Training

Agriculture, forestry, and energy.

Soft skills with competent engineering background and biology and biotechnology understanding.

Multidisciplinary & System thinking

---

## Languages

Spanish (mother tongue)

English (fluent)

Portuguese (basic)

French (basic)

---

## Scholarships

Herrsching Seminar for Rural Youth (2019).

Global Entrepreneurship Summer School (2017).

Regeneration International assembly (2017)

Erasmus Mundus MIND master studies (2015-2017)

FAO internship (2011)

SMILE academic exchange (2010)

PIFI research assistance (2008-2010)

## Freelance projects

2019- 2023	Environmental footprint annual report – GHG inventory calculation for CIBanco (5 consecutive years)
Jun- Oct 2022	Analyst work estimating mitigation potential for macroalgae, forestry and wetland carbon capture projects   Climate Wedge.
Apr 2021– Jun 2022	Greenhouse gas emissions in meat and milk value chain of conventional and regenerative cattle production   Mexican Fund for Nature Conservation FMCN
Aug-Dec 2021	Development of GHG inventory training materials for local authorities regarding AFOLU sector   World Bank Group for National Institute of Ecology and Climate Change
Apr 2020 – Jun 2021	Mechanism for collecting data for the GHG inventory in the agricultural, aquaculture and fishing sectors   Mexican Agriculture Ministry, mgm Innova and GIZ.
Oct – Dic 2020	PMR Latin America: Work program development for regional collaboration on National Carbon Footprint Programs. Task: International review on GHG management voluntary initiatives outside LAC   Carbon Trust for World Bank PMR.
Sep-Oct 2020	Design and delivery of workshop: Circular economy in the agricultural and fishing sector   Autonomous University of Chapingo
Jun – Dic 2020	Technical advice for the development of compensation protocols in the livestock sector   MGM Innova for Carbon Trust and World Bank PMR.
Nov 2020	Introductory course to LCA   CINAM Colegio de Ingenieros Ambientales de Mexico for College of Environmental Engineers from La Paz, Bolivia.
Feb – Aug 2020	Development of implementation routes of energy related NDC measures   Ministry of Environment in Mexico and Danish Energy Agency.
Jan – Oct 2020	Energy Efficiency Voluntary Agreements between Energy Ministry and Large energy intensive Mexican industries   CONUEE and Danish Energy Agency.
Ago 2019 – Jan 2020	Qualitative evaluation of the North American Development Bank performance perception   CINPRO Consultoría en Ingeniería de Proyectos
Jun- Jul 2019	Environmental indicator set for evaluating SASISOPA development   Environmental and Energy Safety Agency ASEA. Short period working as public servant.
Aug 2018– Mar 2019	Tool for monitoring and reporting climate change & agricultural production + stakeholder network configuration and training for tool use   MGM Innova for GIZ and Mexican government.
Sep-Dic 2018	Co-benefits analysis for the joint implementation of SDG and Paris Agreement Agendas in Honduras   MGM Innova and GIZ.
Aug 2018- Apr 2019	Campaign coordination “Yo Quiero mi Tortilla 100% Nixtamalizada”   Organic Consumers Association

May- Nov 2018	Air Quality program for Oaxaca state   Kuradzo for Mexican Environmental ministry and local government.
Jan- Aug 2017	Life Cycle Assessment of fish products   Cornelis Vrolijk   MSc thesis work.
Jan- Jul 2017	Co-benefits analysis for the joint implementation of SDG and Paris Agreement Agendas in Mexico   MGM Innova and GIZ.
Aug 2016 – Jan 2017	Biomass potential in Mexico's energy system   CINAM Colegio de Ingenieros Ambientales de Mexico and UKAid.
Jul- Dec 2015	Climate Change program for Tamaulipas state   Local&Global Ideas.

## Publications

Gemma Cervantes, Luis G. Torres, Mariana Ortega. (2020) **Valorisation of agricultural wastes and biorefineries: a way of heading to circular economy**. In: Industrial Symbiosis for the Circular Economy: Operational experiences, best practices and obstacles to a collaborative business approach. Andrea Cecchin, Laura Cutaia, Pauline Deutz, Andrea Raggi, Roberta Salomone (editores). Springer.

Acosta C., Ortega M., Bunsen T., Prasad Koirala B., Ghorbani A. (2018). **Facilitating Energy Transition through Energy Commons: An Application of Socio-Ecological Systems Framework for Integrated Community Energy Systems**. Sustainability. 10(2), 366.

Ortega M., Giraldo M., Cervantes G. (2015). **Measuring Sustainable Development in Biofuel Production from Microalgae**. En: Microalgae and Other Phototrophic Bacteria: Culture, Processing, Recovery and New Products. Torres L. G. (Ed.). Nova Publishers.

Becerra, L., Ortega, M., Vázquez, I., González, R., de la Rosa, A., Evia, D., Zepeda, Y., Haro, M. E., Skwierinski, A. (2014). **Guía para la Elaboración de Programas de Acción Climática a Nivel Local**. Centro Mario Molina.

Cervantes G., Ortega M. (2014). **Life Cycle Analysis and GHG emissions assessment in biofuel production**. In: Energy and environment nowadays. Torres L. G., Bandala E. R. (Editors). Nova Publishers.