

CURRICULUM VITAE

Lorena Margarita Rios Mendoza

Department of Natural Sciences
University of Wisconsin Superior
Superior, WI 54880
lriosmen@uwsuper.edu

Degrees:

- Ph.D. 2001 Coastal Oceanographic Sciences**
(Marine Electrochemistry)
University Autonomous of Baja California. México.
- Master of Sciences. 1994 Coastal Oceanography**
(Marine Environmental Chemistry)
University Autonomous of Baja California. México.
- B.S. 1989 Chemist**
University National Autonomous of México.

Professional Experience:

Nov-2019	Professor of Chemistry	
	Department of Natural Sciences	
	University of Wisconsin-Superior	
2015-2019	Associate Professor of Chemistry	
	Department of Natural Sciences	
	University of Wisconsin-Superior	
2010- 2015	Assistant Professor of Chemistry	
	Department of Natural Sciences	
	University of Wisconsin-Superior	
2002-2010	Visiting Researcher	
	Department of Chemistry,	
	University of the Pacific.	
1995-2002	Research Assistant	
	Institute of Oceanological Investigations	
	(University Autonomous of Baja California)	
1995-2002	Professor	
	Faculty of Marine Sciences	
	University Autonomous of Baja California	

Courses Taught:

Quantitative Analysis	Lecture	Chem 305
Quantitative Analysis	Lab	Chem 306
General Chemistry II	(lecture and Lab	Chem 106
Supplementary Problems in Gen Chem II	Lecture	Chem 107
General Chemistry I	Lab	Chem 105
Instrumental Analysis	Lecture	Chem 375
Instrumental Analysis	Lab	Chem 376
Descriptive Inorganic	Lecture	Chem 365
Chemistry of Natural Waters	Lecture and Lab	Chem 300
Chemistry of Everyday Phenomena	Lecture and Lab	Chem 102
Our Chemical Environment	Lecture	Chem 100
First Year Seminar-NCIS Forensic Science	Lecture and Lab	FYS 107
Senior Research	Lecture and Lab	Chem 491
Special Topic	Lecture and Lab	Chem 281, 381, 481
Senior Seminar in Chemistry	Lecture	Chem 497

Professional Service:

- 2020 - Current** Planning and Budgetary Council (PBC)
2017 - 2020 Institutional Review Board (IRB)
2012 - 2019 Undergraduate Academic Affairs Council, UAAC (fall semesters)
2019 – 2020 Biology Search and Screen Committee (Assistant Professor of Biology)
2016 - 2017 University Technology Committee
2017 - 2018 Biology Search and Screen Committee (Assistant Professor of Biology)
2014 - 2016 Center for Excellence in Teaching and Learning (CETL) Advisory Committee
2011 - 2014 Student Services Advisory Affairs Committee

Peer-Refereed Publications:

20. Xing Lu^{a,1}, Dong-Fang Deng^{a,*}, Fei Huang^{a,2}, Fabio Casu^b, Emma Kraco^a, Ryan Newton^a, Merry Zohn^c, Swee J. Teh^d, Aaron Watson^c, Brian Shepherd^d, Ying Ma^{a,3}, Mahmoud Abdelhamid Omran Dawood^{a,4}, **Lorena M. Rios Mendoza^{e,5}.** **2021.** Chronic exposure to high-density polyethylene microplastic in feed disrupts nutrient utilization of juvenile yellow perch (*Perca flavescens*). *Animal Nutrition Journal*.
19. **Rios Mendoza L.M.**, Ontiveros-Cuadras J.F., Leon Vargas D., A.C. Ruiz-Fernandez A.C., Rangel-Garcia, Peraz-Berna L.H., Sanchez-Cabeza J.A. **2021.** Microplastic contamination and fluxes in a touristic area at the SE Gulf of California. *Marine Pollution Bulletin*, 170, 112638. (Sep 1, 2021)
18. **Rios Mendoza, L.M.**, Leon Vargas, D., Balcer, M. **2021.** Microplastics occurrence and fate in the environment. In *Current Opinion in Green and Sustainable Chemistry*, 32, 100523. (June 4, 2021)
17. Eduardo Antonio Lozano-Hernández, Nancy Ramírez-Álvarez, **Lorena Margarita Ríos Mendoza**, José Vinicio Macías-Zamora, José Luis Sánchez-Osorio, Félix Augusto Hernández-Guzmán. **2021.** Microplastic concentrations in cultured oyster in two seasons from two bays of Baja California, Mexico. *Environmental Pollution*, 290, 118031. (Dec 1, 2021)
16. Tania Pelamatti, **Lorena M. Rios-Mendoza**, Edgar M. Hoyos-Padilla, Felipe Galván-Magaña, Roberto De Camillis, Ana J. Marmolejo-Rodríguez, Rogelio González-Armas. **2021.** Contamination knows no borders: toxic organic compounds pollute plastics in the biodiversity hotspot of Revillagigedo Archipelago National Park. *Marine Pollution Bulletin*, 170, 112623. (Sep 1, 2021)
15. **Lorena M Rios Mendoza** and Mary Balcer. **2020.** Microplastics in freshwater environments. In: Goldstein, M.I., DellaSala, D.A. (Eds), *Encyclopedia of the World's Biomes*, vol 4. Elsevier, 325-353. (Jan 1, 2020)
14. Nancy Ramirez Alvarez, **Lorena M Rios Mendoza**, J. Vinicio Macias Zamora, Lucero Oregel Velazquez, Arturo Alvarez Aguilar, Feliz A. Hernandez Guzman, Jose Luis Sanchez Osorio, Luis Felipe Navarro Olachea, Hortencia Silvia Jimenez, Charlie Moore. **2020.** Microplastics: Sources and distribution in surface waters and sediments of Todos Santos Bay, Mexico. *Science of the Total Environment* 703, 134838. (Feb 10, 2020) <https://doi.org/10.1016/j.scitotenv.2019.134838>
13. **Lorena M Rios Mendoza**, Mary Balcer. 2019. Microplastics in freshwater environment: A review of quantification assessment. *Trends in Analytical Chemistry* 113, 402-408. <https://doi.org/10.1016/j.trac.2018.10.020> (April 1, 2019)
12. Tania Pelamatti, Iliana A. Fonseca-Ponce, **Lorena M Rios Mendoza**, Joshua D. Stewart, Emigdio Marin Enriquez, Ana J. Marmolejo-Rodriguez, Edgar M. Hoyos-Padilla, felipe Galvan-Magaña, Rogelio Gonzalez-Armas. 2019. Seasonal variation in the abundance of

- marine plastic debris in Banderas Bay, Mexico. *Marine Pollution Bulletin*, 145, 604-610. <https://doi.org/10.1016/j.marpolbul.2019.06.062> (Oct 1, 2019)
11. **Lorena M. Rios Mendoza**, Hrissi Karapanagioti, Nancy Ramirez Alvarez. 2018. Micro(nanoplastics) in the marine environment: Current knowledge and gaps. *Current Opinion in Environmental Science & Health*, 1: 47-51 <https://doi.org/10.1016/j.coesh.2017.11.004>
 10. Stephanie Avery-Gomm, Michelle Valliant, Carley R. Schacter, Katherine F. Robbins, Max Linoiron, Pierre-Yves Daoust, **Lorena M Rios**, Ian L. Jones. 2016. A study of wrecked Dovekies (*Alle alle*) in the western North Atlantic highlights the importance of using standardized methods to quantify plastic ingestion. *Marine Pollution Bulletin* 113, 75-80. <http://dx.doi.org/10.1016/j.marpolbul.2016.08.062>
 9. **Lorena M. Rios Mendoza** and Patrick R. Jones. 2015. Characterization of microplastics and toxic chemicals extracted from microplastic samples from the North Pacific Gyre. *Environmental chemistry*. <http://dx.doi.org/10.1071/EN14236>
 8. Chelsea M. Rochman, Mark Anthony Browne, Benjamin S. Halpern, Brian T. Hentschel, Eunha Hoh, Hrissi K. Karapanagioti, **Lorena M. Rios**, Hideshige Takada, Swee Teh, Richard C. Thompson. 2013. Classify plastic debris as hazardous. *Nature* Vol 494, 169 – 171. <https://doi.org/10.1038/494169a>
 7. **Lorena M. Rios**, Patrick R. Jones Charles Moore, and Urja V. Narayan. 2010. Quantitation of Persistent Organic Pollutants Adsorbed on Plastic Debris from the Northern Pacific Gyre’s “Eastern Garbage Patch.” *J. Environ. Monit.* 12, 226-2236. <https://doi.org/10.1039/c0em00239a>
 6. Macías-Zamora, J. Vinicio., Sánchez-Osorio J. Luis, Ramírez-Alvarez, Nancy, and **Ríos-Mendoza Lorena**. 2008. PCBs and DDTs at the South of the Southern California Bight. Distribution and origin. *Organohalogen Compounds* 70:2372-2376.
 5. Macías-Zamora, J. V., Sánchez-Osorio J. L., **Ríos-Mendoza L.M.**, Ramírez-Alvarez, N., Huerta-Díaz M.A., and López-Sánchez, D. 2008. Trace Metals in Sediments and *Zostera marina* of San Ignacio and Ojo de Liebre Lagoons in Central Pacific Coast of Baja California, Mexico. *Environmental Contamination and Toxicology*. In *Archives of Environment Contamination and Toxicology*. 55(2):218-228.
 4. **Ríos, Lorena M.**, Moore, Charles. Jones, Patrick R. 2007. Persistent organic pollutants carried by synthetic polymers in the ocean environment. *Mar. Pollut. Bull.* 54, 1230-1237. <https://doi.org/10.1016/j.marpolbul.2007.03.022>
 3. **Ríos-Mendoza Lorena M.**, J. Vinicio Macias-Zamora, Alberto, R. Zirino. 2003. Una opción para medir el potencial redox. *Ciencias Marinas*, 29(4):509-520.
 2. Gutierrez-Galindo, E.A., **Ríos-Mendoza, L.M.**, Villaescusa-Celaya, J. 1998. Chlorinated Hydrocarbons in Marine Sediments of The Baja California (México)-California (USA) Border Zone. *Mar. Poll. Bull.*, 36[1]:27-31.
 1. Holm-Hansen O., Hewes, D. Ch., Maturana, J., **Ríos-Mendoza, L.M.**, Góñez-Rodas, G. 1997. AMLR program: Phytoplankton Distribution and its Relationship to Different Water Zones Characterized by Physical Oceanographic Parameters, January-February 1997. *Antarctic Journal of the United States*.

Book Chapter (peer-refereed publication):

6. Karapanagioti H., **Ríos Mendoza L.M. 2021.** Sorption of pollutants on microplastics In: *Handbook of Microplastics in the Environment*. T. Rocha-Santos et al. (eds). Springer.
5. Pelamatti, T., Cardelli, L., **Ríos Mendoza, L.M. 2021.** The role of microplastics in bioaccumulation of pollutants. In: *Handbook of Microplastics in the Environment*. T. Rocha-Santos et al. (eds). Springer.

4. **Rios Mendoza L.M.** and Balcer M. **2021**. Analysis of Chemical Compounds Related to Microplastics. In: Handbook of Microplastics in the Environment. T. Rocha-Santos et al. (eds). Springer.
3. **Rios Mendoza Lorena M**, Mary Balcer. **2020**. Chapter 2. Association of hazardous compounds with microplastics in freshwater ecosystems. In: Microplastics in Water and Wastewater. Hrissi K. Karapanagioti and Ioannis K. Kalavrouziotis (Eds). International Water Association, IWA Publishing. London, UK. DOI: <https://doi.org/10.2166/9781789060034> (Publication date: Oct 15, 2020)
2. **L.M. Rios Mendoza**, S. Taniguchi, H.K. Karapanagiot. **2017**. Chapter 8. Advanced Analytical Technique for Assessing the Chemical Compounds Related to Microplastics. Comprehensive Analytical Chemistry, 75: 209-240.
<https://doi.org/10.1016/bs.coac.2016.11.001>
1. Noam Van Der Hal, **Lorena M Rios**, Dror L Angel. Microplastics in Israeli Mediterranean Coastal Waters. MICRO 2016. Fate and Impacts of Microplastics in Marine Ecosystems. From the Coastline to the Open Sea. Eds. J. Baztan, B., Jorgensen, S., Pahl, R.C., Thompson, J.P., Vanderlinden. Elsevier **2017**. <https://doi.org/10.1016/C2016-0-03453-8>

Non-Peer Review Publications:

5. Scientist Spotlight. **Lorena M Rios Mendoza**, **2018**. Center for Great Lakes Literacy (CGLL) Sea Grant. <https://www.cgl.org/scientistspotlight/dr-lorena-m-rios-mendoza/>
4. **Lorena M Rios Mendoza**. **2017**. Macro and Microplastic Debris Pollution in the Oceans and the Great Lakes. In: Addressing Environmental Risks. 50 years of applied research, student experience, and community outreach. Albert B. D. and Mary D. Balcer (eds). UWS-LRSI. 228-229.
3. **Lorena M Rios Mendoza**. Council of Public Liberal Arts Colleges (COPLAC). May 5, 2016. Microplastic pollution in the Great Lakes and Oceans research at UWS. <https://coplac.org/current-events/microplastic-debris-pollution-in-the-great-lakes-and-oceans-research-at-uws/>
2. UpClose questions for Dr. **Lorena M Rios Mendoza**. December 15, 2015. Issue 10. Illinois Indiana Sea Grant. <https://iiseagrant.org/upclose-an-insiders-view-of-plastic-pollution-research/>
1. **Lorena M. Rios**, Mary Balcer, and Patrick Jones.2014. Microplastic Pollution in the Great Lakes. Lake Superior Angler Magazine.

Exhibition Text:

1. **Dr. Lorena Rios** in conversation with Christina Battle. Proof of Performance at the Gallery TPW. **2017**.Toronto, Canada. <https://syntheticcollective.org/>

Manuscripts (in progress):

1. Lorena M Rios Mendoza and Callie Lier. 2021. Mask and Covid (in progress).
2. José Ángel Ortega-Borchardt^{a*}, Nancy Ramírez-Álvarez^c, Lorena M Rios Mendoza^d, Juan Pablo Gallo-Reynoso^b, Isai David Barba-Acuña^b, Jaqueline García-Hernández^b, Janitzio Égido-Villarreal^b, Trevor Kubenik^d. First detection of potential plastic particles in scats from various populations of California sea lions (*Zalophus californianus*) in the Gulf of California, Mexico: A preliminary study. (in progress).

3. **Lorena M Rios Mendoza.** Analysis of chemical compounds related to microplastics (in progress).
4. **Rios Mendoza L. M.**, Evans C., Puthayangkul S., and Jones P. Assessment of plastic debris around to the Lake Superior (in progress)
5. Muñoz-Arriola, F, **L.M. Rios**, and V. Macias-Zamora. Vanadyl Etio Porphirins as Indices of Oil Pollution in Marine Sediment (in progress)
6. **Rios Mendoza L. M.**, Kristen Johnson. Plastic fibers in the air (in progress).

Research Funding:

21. Finding, evaluating and adopting an Open Educational Resources (OER) and adapting the course for the use of the OER. **2021-2022** (\$600).
20. Superior Learning Experience (SLE). **2021** (\$1500) Course Design and Engagement Initiative.
19. Letter of Intent- New Frontier in Research Fund – Transformation **2021**. Kelly Jazvac-PI, Kirsty Robertson-Co-PI, Patricia Corcoran Co-PI, **Lorena M Rios Mendoza Co-Applicant**. Lake, Lab, Studio, and Museum. Ending Plastic Pollution in the Great Lakes Watershed. Concordia University.
18. Freshwater Collaborative of Wisconsin. **2021** (\$113, 254: UWS share \$33,814). In collaboration with UW-Madison (Dr. Pujara), LSNERR (Dr. Haines), and UW-Eau Claire (Dr. Welnitz). Microplastics-A multidisciplinary approach to the understanding sources, transport, adsorption of POPs, and fate in St. Louis River Estuary and Western Lake Superior.
17. Course Design and Engagement Initiative. 2020 (\$1500).
16. Wisconsin Space Grant Consortium. 2020 (\$10,000) (NASA). Microplastics in the Space Station: Undergraduate Research Collaboration.
15. UW System Water Research Collaborative. 2019 (\$10,000). Wisconsin System Undergraduate Water Fellow proposal. Impacts of Polyethylene on the Great Lakes Fish: Embryo Development and Larval Survival of Yellow Perch (*Perca flavescens*). In collaboration with Dr. Deng-Fang Deng, UW-Milwaukee.
14. Faculty Development Grant. 2019 (\$1000) to chair and present in the session: Microplastic pollution in Latin America: Current state and gaps knowledge. At the Society of Environmental Toxicology and Chemistry (SETAC) Latin America 13th Biennal Meeting in Cartagena, Colombia.
13. Letter of Intent to UW System Regent Scholar. 2019. Project title: Iridium: A new redox sensor. (Invited to submit a full proposal).
12. Investigacion Ciencia Basica. Secretaria de Educacion Publica. Consejo Nacional de Ciencia y Technologia. 2017. Project: Fuentes, concentraciones, impactos y destinos de microplásticos en dos bahías de Baja California, México (\$ 1,800,000 mexican currency). In collaboration with Dr. Nancy Ramírez Alvarez. Universidad Autónoma de Baja California, Ensenada, B.C., México.
11. PI Research grant Ecofootprint Enbridge 2017. \$41,330. Microplastics Pollution in Lake Superior: Undergraduate Research at UW-Superior.
10. Letter of Intent to WiSys Technology Foundation (December 2017) Project: New Redox Sensor: Iridium (invited to submit a full proposal)
9. Co-PI in a proposal to National Geographic (\$6,916). “Oceanic Manta Rays and Plastic Pollution in the Mexican Pacific” 2017 (granted)
8. Faculty Development Grant. 2017 (\$1000) to present “Microplastics and Microfibers in St. Louis River Estuary and Lake Superior” at the 6th International Marine Debris Conference on March 12-16, 2018.

7. Programa para el Desarrollo Professional Docente (PRODEP-SEP, NPTC-2016: Grant No. 10166). 2016. Project: Microplásticos: una nueva fuente de compuestos tóxicos en la Bahía de Todos Santos, Ensenada, C.B. México. (\$300,000 mexican currency). In collaboration with Dra. Nancy Ramírez Alvares, Universidad Autónoma de Baja California, Ensenada, B.C., México
6. PI Research grant Ecofootprint Enbridge 2016. \$85,000. Great Lakes Undergraduate Research Opportunities at UW-Superior.
5. PI Research Assistant Grant. 2015. \$3000. URSCA-Undergraduate Student. Plastic Research.
4. HIPs-URSCA Mini-grant. Undergraduate research on plastic debris contamination on the North Pacific Ocean (\$ 1500). 2015.
3. Co-PI University of Michigan. 2014-2015. \$26,670. Microplastics in the Great Lakes: Towards establishing a long-term multidisciplinary research platform to assess the impact of microplastics on Laurentian Great Lakes ecosystem health. Co-PI.
2. URSCA-UWS 2015. \$3,000. Analysis of plastic debris from the North Pacific Ocean collected during summer 2014.
1. Learning Technology Development. 2011. Grant \$7,498. Google MyMaps GPS and data mash-up to develop students' skills in chemical analysis data visualization and hypothesis testing on plastic debris along the Lake Superior shoreline.

Awards and Honors:

1. Max H. Levine Award for scholarly contributions to contemporary concerns. **2018**
2. Outstanding Women of Color in Education Award. **2018**
3. Making a Difference. Three times nominated by three different students. 2014-2015.
4. Faculty Mentor of the Year. Mentoring two UWS McNair Scholars students. 2015.
5. Scholar Merit, Mérito Escolar, Universidad Autónoma de Baja California. 2001 México.
6. The Best PhD Students of México. Diario de México, A Los Mejores Estudiantes de México. 2001 México.

Mentorship:

Capstone (Research. Since 2003-Current):

No.	Date	Student Name	Research	Status
32	2021	Britta Larson	Microplastics at the International Space Station	Progress
31	2021	Karsyn Doughty	Microplastics surface waters	Progress
30	2021	Austin Dehn	PPE plastic pollution	Progress
29	2021	Tyler Broderius	Microplastic from Mexican Beaches	Done
28	2020	Callie Lier	PPE plastic pollution	Done
27	2020	Daniela Leon Vargas	Microplastic fish ingestion	Done
26	2020	Ryan Herring	Photodegradation virgin pellets	Done
25	2019	Chia-An Li	PAHs in natural and synthetic debris	Done
24	2019	Giorgi Keppers	Effect of Photodegradation on Plastic Fruit Labels	Done
23	2019	Mandy Tomlinson	NNN: The silent Killer	Done
22	2018	Maryelle Nyeck Nyeck	Caffeine in effluent water from wastewater treatment plants: Two Harbors, MN, Superior, WI, Bayfield, WI, Ashland, WI, Washburn, WI	Done
21	2017	Cera Johnson	Effects of microplastics on the behavior of <i>Danio Rerio</i>	Done
20	2017	Tyler Jasper	Determining the Composition and Surface Area of Microplastics and Microfibers	Done
19	2017	Felagot Abebe	Microplastics in core sediments form Lake Superior	Done
18	2017	Ernesto Soto	Prevalent Drug in Dollar Bills.	Done
17	2017	Lei Shi	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OE) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).	Done

Undergraduate Research (lab skills and critical thinking. 2003- current):

No.	Student Name	Research	Date/Status
24	Lucas Palomino	Learning microplastic morphology, microscope	2021-progress
23	Addison Holck	Red Nile dye for microplastics analysis	2021-progress
22	Katie Smith	FTIR and Microscope analysis	2021-progress
21	Trevor Kubenik	FTIR-ATR Spectrometer	2021-Done
20	Austin Dehn	Fiber analysis FTIR-ATR	2021-Done
19	Niyoosha Abdollahpour	Nanomaterials	2021-Done
17	Alex Rice	Spectrometry and fluorescence analysis	2021- Done
16	Callie Lier	COVID-19 and plastic pollution	2020-2021
15	Tyler Broderius	Phthalates methodology	2019-2020
14	Kasryn Doughty	Analytical Analysis (SURF)	2019-2020
13	Britta Larson	Analytical chemistry methodologies	2019-2020
12	Daniela Vargas Leon	Microplastics analysis FTIR (SURF)	2018-2021
11	Ryan Herring	FTIR analysis	2018-2020
10	Chia-An Lin	Microfibers in the air (worldwide samples) (SURF)	2018-2020
9	Michael Moretto	Heavy metals analysis	2018-2019
8	Katrina Cerrillo	PAHs analysis (McNair)	2018
7	Naran Battulga	Microplastics St Louis River Estuary	2018
6	Valentin Salas	Microplastics ingestion (birds)	2018
5	Cooper Osterling	Analytical Instrumentation	2017
4	Alex Zoel	Microplastics fibers rivers	2017
3	Kim Kobar	Microplastics ingestion fish	2017
2	Shi Li	Core sediments microplastics	2017
1	Natasha Singer	Microplastics WWTPs	2017

Thesis Advisor. Director or Co-director and member of the Committees:

No.	Grade/University	Student	Advisor	Thesis	Status/Date
10	Ph.D. Universidad Autónoma de México	Allan Rosales Valencia	Committee	Determinación de plásticos como vectores de elementos potenciales tóxicos en la raya pinta <i>Urotrygon chilensis</i> en el Golfo de California	In progress 2021
9	Ph.D. Universidad Autónoma de Baja California. México.	Eduardo A. Lozano Hernández	Co-Director	Presencia y variación temporal de microplásticos y ftalatos en 4 especies de peces en Bahía de Todos Santos, México	In progress 2020
8	Ph.D. Instituto Politécnico Nacional. Centro Interdisciplinario de Ciencias Marinas. La Paz, Baja California, México.	Stephanie Itzel Villagomez Velez	Co-Director	Contaminantes orgánicos persistentes en Tiburón ballena (<i>Rhincodon typus</i>) y el zooplancton en el Caribe Mexicano	In progress 2020
7	Ph.D. Instituto Politécnico Nacional. Centro Interdisciplinario de Ciencias Marinas. La Paz, Baja California, México.	Samantha Ballesteros Hernández	Co-Director	Ánálisis de microplásticos en dos especies de batoides (<i>Rhinoptera steindachneri</i> y <i>Pseudobatos glaucopterus</i>) en la zona de Santa Rosalía, Baja California Sur	In progress 2020
6	M.C. Instituto de Ciencias Marinas y Pesquerías. Universidad Veracruzana. México.	Alexa Mendoza Osio	Director	Caracterización de microplásticos asociados a arrecifes del Sistema Arrecifal Veracruzano, suroeste del Golfo de México	In progress 2019
5	M.C. Instituto de Ciencias Marinas y Pesquerías. Universidad Veracruzana. México.	Minerva Flores Vargas	Co-Director	Ocurrencia y distribución de microplásticos en el Sistema Arrecifal Veracruzano, suroeste del golfo de México	In progress 2018
4	MC Universidad Autónoma de Baja California. México	Eduardo A. Lozano Hernández	Co-Director	Cuantificación y caracterización de microplásticos presentes en el ostión de cultivo <i>Crassostrea gigas</i> en Bahía Todo Santos y Bahía San Quintín	2018-2020 Graduated
3	PhD Instituto Politécnico	Tania Pelamatti	Co-Director	El impacto de los plásticos flotantes en los vertebrados marinos del	2016-2019 Graduated

	Nacional. Centro Interdisciplinario de Cienicias Marinas. La Paz, Baja California, México	Océano Pacífico
2	PhD Department of Maritime Civilizations, Charney School for Marine Science, University of Haifa, Haifa, Israel	Noam van der Hal Co-Director Adsorption of POPs onto microplastics 2014-2019 Graduated

Academic Leadership and Service:

- **Associate Editor:**
 1. *Ciencias Marinas. Since 2019- Current.* An international bilingual open-access peer-reviewed journal that contains original research findings in all areas of marine sciences. Published by the Universidad Autónoma de Baja California, México.
- **Guest Editor:**
 1. *Handbook of Microplastics in the Environment.* Section: Microplastics Degradation and Interactions with Chemical Pollutants. Published Springer. **(2019-2021)**
 2. *Special Issue “POPs in Water Environment”* of Water. MDPI (Molecular Diversity Preservation International) publisher.
- **Peer Reviewer of Journals (anonymous):**
Trends in Analytical Chemistry, Environmental Pollution, Marine Pollution Bulletin, International J. of Environmental Analytical Chemistry, Journal of Great Lakes Research, Environmental Science and Technology, Int. J. Environ. Res. Public Health, Science of the Total Environment, Archives of Environmental Contamination and Toxicology, Environmental Science and Pollution Research, Environmental Monitoring and Assessment, Analytical Chemistry, Environmental Pollution, Marine Technology, Environmental Chemistry.
- **Scientific Expert Participation:**
 1. International Atomic Energy Agency (**IAEA**). Marine plastic debris advisor for Latin America (Organismo Internacional de Energía Atómica-OIEA), since **2020- Current**
 2. *Great Lakes Marine Debris Action Plan. NOAA.* Over the next five years, this action plan will be completed. **2019-2024**
 3. **JPI Oceans Nanoplastic Review Panel** (Microplastic Call 2) for European Union (Brussels, Belgium) (The Joint Programming Initiative Healthy and Productive Seas and Oceans is a coordinating and integrating platform at European Union) **2019-2022.**
 4. **JPI Oceans Microplastic review panel** for European Union (Brussels, Belgium) (The Joint Programming Initiative Healthy and Productive Seas and Oceans is a coordinating and integrating platform at European Union) 2015-2019.
 5. **The Great Lakes Land-based Marine Debris Action Plan. NOAA.** This action plan consists of 53 actions to be completed within five years (2014-2019).
 6. **International Joint Commission (IJC)** Canada, 2016.
 7. **Academic Expert** in European Commission Environment. Plastic Waste in the Environment. August 2010
- **Report Reviewer:**
In: Honolulu Strategy: A Global Framework for the Prevention and Management of Marine Debris (2011).

In: Gordon Miriam, "Eliminating Land-Based Discharges of Marine Debris in California: A Plan of Action from the Plastic Debris Project." June 2006. California Coastal Commission, LARWQCB & SWRCB.

- **Organization member**
 1. American Chemical Society, ACS
 2. Lake Superior Section of the ACS
 3. International Association for the Great Lakes, IAGLR
 4. Society of Environmental Toxicology and Chemistry, SETAC
- **Board adviser** to the Algalita Marine Research and Education (since 2005)
- **Chair SETAC Latin America 14th Biennial Meeting** held 23- September **2021**. Valdivia, Chile.
- **Chair SETAC Latin America 13th Biennial Meeting** held 15-18 September 2019. Bogota, Colombia
- **Co-Chair IAGLR.** Session: Microplastics in freshwater systems: Advances in chemistry, biology, and physics. Brockport, NY. June 10-13, 2019.
- **Co-Chair 6th International Marine Debris Conference.** Session “Plastic Debris Pollution in Freshwater Environments of the World” March 12-16, 2018
- **American Chemical Society**, Lake Superior. Member 2012- present. Board position: Director (2019). Past positions: Elected Chair and Chair
- Women and Science Advisory **Board representing UW-Superior** (2011-2020).

Participation Microbead Legislation:

1. Wisconsin State
2. Minnesota State

Experience (Field):

- Participation in multiple oceanographic research cruises on the research vessel R/V Alguita (Algalita Marine Research Foundation from 1995 to 2017) on the North Pacific Ocean.
- Participation in multiple collections of plastic debris samples on the Great Lakes onboard Sea Dragon from Pangaea Exploration (summer-2013), Flagship Niagara (summer-2012), the U.S. EPA’s R/V Lake Guardian (summer-2019).
- Participation in the Antarctic Marine Living Resources (AMLR) Program, funded by NOAA (National Oceanic and Atmospheric Administration) on the Russian Research Vessel *Yuzhmorgeologiya*. Antarctic (January-February 1997).
- Participation in several cruises on the oceanographic research vessel R/V Francisco de Ulloa (CICESE-Mexico, 1995 to 2002).

Research Interests:

- Microplastic debris pollution in freshwaters and oceans (persistent organic pollutants)
- Emergent contaminants in freshwater systems (phthalates, caffeine, vitamin B, etc.)
- Fiber plastics on aquatic organisms.
- Chemistry pollution in freshwater and oceans (POPs and heavy metals) in different matrices (sediments, water, tissues).

Presentations (2005-2021)

No.	Date	Conference	Title	Place
122	February 17, 2022	Wisconsin Land and Water (GLC)	Microplastic Debris Pollution	Madison, WI (Virtual)
121	January 26, 2022	Water Technology Accelerator (WaTA)	Microplastics: How bad are they?	Milwaukee, WI (Virtual)
120	January 5, 2022	Twin Ports Freshwater Folks	Microplastic pollution: A challenge to study	UM-Duluth, MN (Virtual)
119	October 25, 2021	Water Resources Seminar	Plastic Debris: Seawater and Freshwater Environments	UM-Duluth
118	October 14, 2021	Ciclo de Seminarios ICML-UNAM	Contaminación y flujos de microplásticos en un área turística al SE del Golfo de California	México (Virtual)
117	October 12, 2021	CICIMAR-IPN	Contaminación por desechos de plástico	La Paz, México (Virtual)
116	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	Microplastics: A Study Case in Mazatlán, Mexico	Chile (Virtual)
115	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	Microplastics: An Assessment Case of Two Bays in Baja California, Mexico	Chile (Virtual)
114	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	Microplastic Concentrations in Cultured Oyster in Two Seasons From Two Bays of Baja California,Mexico	Chile (Virtual)
113	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	Microplastics in California Sea Lion (<i>Zalophus californianus</i>) Rookeries	Chile (Virtual)
112	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	Are all Micro Particles Plastics?	Chile (Virtual)
111	September 26-29, 2021	SETAC Latin America 14th Biennial Meeting.	A New Environmental Problem: Coronavirus and Disposable Face Masks	Chile (Virtual)
110	August 13, 2021	31st Annual Wisconsin Space Conference. WI Space Grant Consortium	Microplastics Everywhere	Milwaukee School of Engineering (MSOE)
109	May 18-19, 2021	Simposium Internacional de Micropláticos y Contaminantes Ambientales que Afectan la Salud Humana	Macro y micro plásticos: son un problema ambiental?	Bogota, Colombia (Virtual)
108	April 12-14, 2021	NCUR Conference	Historical Concentrations of Polycyclic Aromatic Hydrocarbons and Persistent Organic Pollutants in Superior, WI	Virtual
107	April 12-14, 2021	NCUR Conference	Collection, analysis, and comparison of microplastics from rural and urban areas	Virtual
106	April 8, 2021	Colectivo Ecologista Jalisco	Contaminación por desechos de plásticos	México (Virtual)
105	March 22, 2021	Colectivo Ecologista Jalisco, A.C. Dialogo Virtual	La era de los early adopters y la controversia de los plásticos biobasados	México (Virtual)
104	March 12, 2021	Chemistry Seminars	Macro and Micro Plastic Debris: Oceans and the Great Lakes	UW-Oshkosh
103	March 5, 2021	Harbor City	Is Plastic Debris an Environmental Issue?	Duluth, MN
102	March 4-5, 2021	Texas Plastic Pollution Symposium	Presence of microplastics in rivers that propagate within the Veracruz Reef System and in reefs exposed to their discharges.	South Padre Island, Texas
101	February 4, 2021	Civil and Environmental Engineering Seminars	Is Plastic Debris an Environmental Issue?	UW-Madison
100	January 13, 2021	Enhancement Day Spring: Emerging Stronger	“We did it”	UW-Superior
99	December 17, 2020	Mares Mexicanos	Un Mar de Microplásticos	Facebook Mares Mexicanos
98	November 23-27, 2020	Micro2020 International Conference	Microplastics: A Study Case of St. Louis River Estuary and Lake Superior.	Lanzarote, Spain (Zoom)
97	August 5, 2020	WI-Sea Grant (Workshop MPs)	Microplastics: Oceans and the Great Lakes	Zoom
96	March 3-4, 2020	St. Louis River Summit	Microplastic and PAHs pollution in St. Louis River Estuary	Duluth, MN
95	January 21, 2020	Chemical Committee (Lake Superior Partnership USA-CANADA)	Microplastics and the Great Lakes	WebEx
94	December 17,	Seminar CICIMAR	Microplásticos: cocontaminación química que	La Paz, baja

	2019		afecta los ecosistemas marinos y de agua dulce”	California Sur, México
93	October 16-18, 2019	European Elasmobranch Association 23th Annual Conference	Comprehensive review of the reported interactions between marine litter and elasmobranchs around the world.	Rende, Italy
92	September 15-18, 2019	Society of Environmental Toxicology and Chemistry	Microplastics: A case study in Todos Santos Bay (Mexico)	Cartagena, Colombia
91	September 15-18, 2019	Society of Environmental Toxicology and Chemistry	Macro and microplastics in remote areas: the case of Revillagigedo Archipelago (Mexico)	Cartagena, Colombia
90	September 15-18, 2019	Society of Environmental Toxicology and Chemistry	Detection of Microplastics in Sediments Traps	Cartagena, Colombia
89	August 12, 2019	University of Haifa	Macro and Micro Plastic Debris: Oceans and The Great Lakes	Haifa, Israel
88	July 8 – 14, 2019	Center for Great Lakes Literacy	Microplastic: A new source of toxic compounds in the Oceans and the Great Lakes	Lake Erie (R/V Lake Guardian)
87	June 10-14, 2019	62nd Annual International Association for Great Lakes Research Conference	Microplastics particles St. Louis River Estuary and Lake Superior	Brockport, NY
86	June 10-14, 2019	62nd Annual International Association for Great Lakes Research Conference	A Pan-Great Lakes Investigation of plastic pellet pollution	Brockport, NY
85	June 10-14, 2019	62nd Annual International Association for Great Lakes Research Conference	Microplastics: Environmental Forensic	Brockport, NY
84	May 8, 2019	The River Talks	Newton Creek: Is there contamination after an explosion?	Superior, WI
83	April 11-13, 2019	National Conference on Undergraduate Research (NCUR)	Polyaromatics as Forensic Evidence of Environmental Pollution	Atlanta , GA
82	March 25-29, 2019	Primer Congreso Latinoamericano de Tiburones, Rayas y Quimeras. VIII Simposio Nacional de Tiburones y Rayas.	Microplásticos y COPs en Tiburones del Golfo de California	Playa del Carmen, Quintana Roo. Mexico
81	February 12, 2019	Upper Peninsula Environmental Health Association	Microplastic pollution: Chemical threat to freshwater and marine ecosystems	Michigan
80	January 10, 2019	University of Mazatlan, Mexico	Microplásticos: Una nueva fuente de compuestos tóxicos	Mazatlán, Mexico
79	October 9, 2018	Northern Great Lakes Visitor Center	Macro and microplastics: Great Lakes and Oceans.	Ashland, WI
78	September 26, 2018	Eco-Rotary Club	Macro and microplastics emergent contaminants: a new source of toxic compounds in waters from Great Lakes and Oceans.	Duluth, MN
77	August 17, 2018	Atlas de los Oceanos	Microplásticos: Una nueva fuente de compuestos tóxicos en los Océanos y en los Grandes Lagos.	Ciudad de Mexico, Mexico
76	June 28, 2018	High School	Plastic Debris Pollution	Milwaukee, WI
75	Abrial 25, 2018	Earth Day	Great Lakes and North Pacific Ocean. Plastic Debris Pollution	Duluth, MN
74	March 12-16, 2018	6 th International Marine Debris	Macro and Microplastics: St Louis River Estuary and Lake Superior	San Diego, CA
73	March 12-16, 2018	6 th International Marine Debris	Microplastic distribution in environmental matrices (water-sediment) in Todos Santos Bay, Mexico.	San Diego, CA
72	March 12-16, 2018	6 th International Marine Debris	Oceanic manta rays and plastic pollution in the Mexican Pacific Ocean	San Diego, CA
71	March 12-16, 2018	6 th International Marine Debris	Microplastics in the St. Louis River Estuary from the WLSSD effluent water	San Diego, CA
70	February 12, 2018	College of St. Scholastica	Plastic Debris Pollution	Duluth, MN
69	August 18, 2017	Museo del Caracol	Microplásticos contaminantes emergentes: una nueva Fuente de compuestos tóxicos en agua de mar y en los Grande Lagos.	Ensenada, BC. Mexico
68	July 24-25, 2017	10 th Annual WSTS	Macro and Micro Plastic Debris: Oceans and the Great Lakes.	UW-Platteville

67	May 31-June 1, 2017	2017 Emerging Contaminants in the Aquatic Environment Conference	Microplastics: small particles with huge environmental impacts	Champaign, IL
66	May 15-19, 2017	60th Annual International Association for Great Lakes Research Conference	Microplastic particles and their environmental impacts on our freshwater systems	Detroit, MI
65	May 2, 2017	Harbor City High School	Microplastics emergent contaminants: A new source of toxic compounds in waters from Great Lakes and Oceans.	Duluth, MN.
64	March 14-15, 2017	St Louis River Summit	Small plastic particles with huge environmental impacts on our freshwater systems	UW-Superior, Superior, WI
63	Feb 21, 2017	Science on Tap	Microplastics emerging contaminants: A new source of toxic compound in waters from Great Lakes and Oceans.	Ashland, WI
62	Feb 16, 2017	“Bag it” community education event about plastic pollution	Panel discussion on plastic pollution	Duluth, MN
61	Feb 16, 2017	Superior Public Library	Plastics in the environment: sources, impacts, and solutions	Superior, Wi
60	Jan 16, 2017	City of Superior Environmental Services event	Are you eating plastic fish?	Superior, WI