Chelsea M. Rochman

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HIGHLIGHTS

- Pioneer and internationally recognized leader in microplastic pollution research
- Strong record of grantsmanship (secured extramural research support worth >4M CAD since 2017)
- Regular publication of high-impact research (H-index: 45; Google Scholar citations: >14,500; papers in Science, Nature, PNAS)
- PI of large, productive research lab (~20 current trainees, including 5 full-time graduate students and 4 PDFs)
- Work regularly featured in news, documentaries, and other media (e.g., *CBC*, *New York Times*, *Washington Post*, *The Atlantic*, *LA Times*, *National Geographic*, *BBC*, *NPR*, etc.). Featured 9 times in UofT's *Arts and Science News*, and 4 times in *UofT News*.
- Successfully work with industry and government to shape science-based policy (e.g., California Bills AB888 & SB1422, US Microbead-free Waters Act, Canada G7 ocean plastics charter)
- Strong record of outreach (e.g., co-founder and director of the UofT Trash Team; regularly lead science communication training workshops)

EDUCATION

PhD	University of California, Davis and San Diego State University; Joint Doctoral Program in Ecology, May 2013
BS	University of California San Diego; Biology: Ecology, Behavior and Evolution, December 2007

APPOINTMENTS & EXPERIENCE

CURRENT

2016-	Assistant Professor, Dept. of Ecology & Evolutionary Biology, University of Toronto
2016-	Research Consultant, Ocean Conservancy

PAST

2014-2016 David H. Smith Postdoctoral Fellow, Society for Conservation Biology; based at University of California Davis and University of Toronto

2013-2014 Postdoctoral Scholar, Aquatic Health Program, School of Veterinary Medicine, University of California Davis

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PUBLICATIONS

JOURNAL ARTICLES

De Frond, H., O'Brien, A.M. and Rochman, C.M., 2022. Representative subsampling methods for the chemical identification of microplastic particles in environmental samples. ***Chemosphere***, p.136772.

Kotar, S., McNeish, R., Murphy-Hagan, C., Renick, V., Lee, C.F.T., Steele, C., Lusher, A., Moore, C., Minor, E., Schroeder, J. and Helm, P., … Rochman, C. 2022. Quantitative assessment of visual microscopy as a tool for microplastic research: Recommendations for improving methods and reporting. ***Chemosphere***, p.136449.

Rochman, C.M., Grbic, J., Earn, A., Helm, P.A., Hasenmueller, E.A., Trice, M., Munno, K., De Frond, H., Djuric, N., Santoro, S. and Kaura, A., 2022. Local Monitoring Should Inform Local Solutions: Morphological Assemblages of Microplastics Are Similar within a Pathway, But Relative Total Concentrations Vary Regionally. ***Environmental Science & Technology***, *56*(13), pp.9367-9378.

Thornton Hampton, L.M., Brander, S.M., Coffin, S., Cole, M., Hermabessiere, L., Koelmans, A.A. and Rochman, C.M., 2022. Characterizing microplastic hazards: which concentration metrics and particle characteristics are most informative for understanding toxicity in aquatic organisms?. ***Microplastics and Nanoplastics***, *2*(1), pp.1-16.

Thornton Hampton, L.M., Bouwmeester, H., Brander, S.M., Coffin, S., Cole, M., Hermabessiere, L., Mehinto, A.C., Miller, E., Rochman, C.M. and Weisberg, S.B., 2022. Research recommendations to better understand the potential health impacts of microplastics to humans and aquatic ecosystems. ***Microplastics and Nanoplastics***, *2*(1), pp.1-13.

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Thornton Hampton, L.M., Lowman, H., Coffin, S., Darin, E., De Frond, H., Hermabessiere, L., Miller, E., de Ruijter, V.N., Faltynkova, A., Kotar, S., Monclús, L., Siddiqui, S., Volker, J., Brander, S., Koelmans, A.A., Rochman, C.M., Wagner, M., Mehinto, A. 2022. A living tool for the continued exploration of microplastic toxicity. ***Microplastics and Nanoplastics***, *2*(1), pp.1-11.

Bergmann, M., Collard, F., Fabres, J., Gabrielsen, G.W., Provencher, J.F., Rochman, C.M., van Sebille, E. and Tekman, M.B., 2022. Plastic pollution in the Arctic. *Nature Reviews Earth & Environment*, pp.1-15.

De Frond, H., Hampton, L.T., Kotar, S., Gesulga, K., Matuch, C., Lao, W., Weisberg, S.B., Wong, C.S. and Rochman, C.M., 2022. Monitoring microplastics in drinking water: an interlaboratory study to inform effective methods for quantifying and characterizing microplastics. *Chemosphere*, p.134282.

Zhu, X. and Rochman, C., 2022. Emissions Inventories of Plastic Pollution: A Critical Foundation of an International Agreement to Inform Targets and Quantify Progress. *Environmental Science & Technology*.

Lapointe, M., Rochman, C.M. and Tufenkji, N., 2022. Sustainable strategies to treat urban runoff needed. *Nature Sustainability*, pp.1-4

Bucci, K. and Rochman, C.M., 2022. Microplastics: a multidimensional contaminant requires a multidimensional framework for assessing risk. *Microplastics and Nanoplastics*, *2*(1), pp.1-9.

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Cherniak, S.L., Almuhtaram, H., McKie, M.J., Hermabessiere, L., Yuan, C., Rochman, C.M., Andrews, R.C. 2022. Conventional and biological treatment for the removal of microplastics from drinking water. *Chemosphere* 288, 132587.

O'Brian, A., Lins, T.F., Yang, Y., Frederickson, M.E., Sinton, D., Rochman, C.M. 2021. Microplastics shifts impacts of climate change on a plant-microbe mutualism: Temperature, CO2 and tire wear particles. *Environmental Research, 203,* p.111727.

De Frond, H., Rubinovitz, R., Rochman, C.M. 2021. μATR-FTIR spectral libraries of plastic particles (FLOPP and FLOPP-e) for the analysis of microplastics. *Analytical Chemistry* 93(48), 15878-15885.

Hermabessiere, L., Rochman, CM. 2021. Microwave assisted extraction for quantification of microplastics using pyrolysis-GC/MS. *Environmental Toxicology and Chemistry.*

Hamilton, B.M., Rochman, C.M., Hoellein, T.J., Robison, B.H., van Houtan, K.S., Choy, A. 2021. *Marine Ecology Progress Series*. 675, 23-33.

McIlwraith, H.K., Kim, J., Helm, P., Bhavsar, S.P., Metzger, J.S., Rochman, C.M. 2021. Evidence of microplastic translocation in wild-caught fish and implications for microplastic accumulation dynamics in food webs. *Environmental Science and Technology.*

Munno, K., Helm, P.A., Rochman, C.M., George, T., Jackson, D.A. 2021. Microplastic contamination in Great Lakes Fish. *Conservation Biology.*

Guo, Y., O'Brien, A.M., Lins, T.F., Shahmohamadloo, R.S., Almirall, X.O., Rochman, C.M., Sinton, D. 2021. Effects of hydrogen peroxide on cyanobacterium *Microcystis aeruginosa* in the presence of nanoplastics. Environmental Science and Technology Water.

Chibwe, L., Parrott, J.L., Shires, K., Khan, H., Clarence, S., Lavalle, C., Sullivan, C., O'Brien, A.M., De Silva, A.O., Muir, D.C.G., Rochman, C.M. 2021. A deep dive into the complex chemical mixture and toxicity of tire wear particle leachate in fathead minnow. Environmental Toxicology and Chemistry.

Giles, R.K., Nguyen, C.A.T., Ho, T.T.Y., Nguyen, C.V., Ngo, N.T., Rochman, C.M. 2021. Source-specific patterns of marine debris and associated ecological impacts in the Red River Estuary of Xuan Thuy National Park, Vietnam. ***Frontiers in Environmental Science***, 9, *162*.

Cowger, W., Steinmetz, Z., Gray, A., Munno, K., Lynch, J., Hapich, H., Primpke, S., De Frond, H., Rochman, C.M., Herodotou, O. 2021.Microplastic spectral classification needs an open-source community: Open Specy to the rescue! ***Analytical Chemistry.***

Zhu, X., Munno, K., Grbic, J., Werbowski, L., Bikker, J., Ho, A., Sedlak, M., Sutton, R., Box, C., Lin, D., Gilbreath, A., Holleman, R.C., Fortin, M., Rochman, C.M. 2021. Holistic assessment of microplastics and other anthropogenic microdebris in an urban bay sheds light on their sources and fate. ***Environmental Science and Technology Water.***

Hamilton, B.M., Bourdages, M.P., Geoffroy, C., Vermaire, J.C., Mallory, M.L., Rochman, C.M. and Provencher, J.F., 2021. Microplastics around an Arctic seabird colony: Particle community composition varies across environmental matrices. ***Science of The Total Environment***, *773*, p.145536.

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Bucci, K., Bikker, J., Stevack, K., Watson-Leung, T. and Rochman, C., 2021. Impacts to Larval Fathead Minnows Vary between Preconsumer and Environmental Microplastics. ***Environmental Toxicology and Chemistry.***

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Syberg, K., Nielsen, M.B., Clausen, L.P.W., van Calster, G., van Wezel, A., Rochman, C., Koelmans, A.A., Cronin, R., Pahl, S. and Hansen, S.F., 2021. Regulation of plastic from a circular economy perspective. ***Current Opinion in Green and Sustainable Chemistry***, p.100462.

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Brookson, C., Kirk, D., Rochman, C.M. Combining ecotoxicology and classical ecological models to predict the effects of microplastics on aquatic populations. *In revision at* ***Ecology and Evolution***

Hoellein, T.J. and Rochman, C.M., 2021. The "plastic cycle": a watershed-scale model of plastic pools and fluxes. ***Frontiers in Ecology and the Environment***, *19*(3), pp.176-183.

Hung, C., Klasios, N., Zhu, X., Sedlak, M., Sutton, R. and Rochman, C.M., 2021. Methods matter: Methods for sampling microplastic and other anthropogenic particles and their implications for monitoring and ecological risk assessment. ***Integrated Environmental Assessment and Management,*** *17*(1), pp.282-291.

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Brander, S., Renick, V.C., Foley, M.M., Steele, C., Woo, M., … Rochman, C.M. 2020. Sampling and quality assurance and quality control: A guide for scientists investigating the occurrence of microplastics across matrices. ***Applied Spectroscopy***, 74, 1099-1125.

Cowger, W., Gray, A., Christiansen, S.H., De Frond, H., Deshpande, A., … **Rochman, C.M.**, … Primpke, S. 2020. Critical review of processing and classification techniques for images of spectra in microplastic research. ***Applied Spectroscopy***, 0003702820929064.

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Kim, J., Poirier, D.G., Helm, P.A., Bayoumi, M., **Rochman, C.M.** 2020. No evidence of microplastic translocation in adult rainbow trout (Oncorhynchus mykiss) after a two-week dietary exposure. ***PLOS ONE,*** *15 (9*) e0239128**.**

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Thaysen, C., Munno, K., Hermabessiere, L., **Rochman, C.M.** 2020. Towards Raman automation for microplastics: developing strategies for particles adhesion and filter subsampling. ***Applied Spectroscopy,*** 0003702820922900.

Zhang, X., Mell, A., Li, F., Thaysen, C., … **Rochman, C.M**., … Jobst, K.J. 2020. Rapid fingerprinting of source and environmental microplastics using direct analysis in real time-high resolution mass spectrometry. ***Analytica Chimica Acta***, 1100, 107-117.

Yang, Y., Guo, Y., O'Brien, A.M., Lins, T.F., **Rochman, C.M.** and Sinton, D., 2020. Biological Responses to Climate Change and Nanoplastics Are Altered in Concert: Full-Factor Screening Reveals Effects of Multiple Stressors on Primary Producers. ***Environmental Science & Technology***, *54*(4), pp.2401-2410.

Kolomijeca, A., Parrott, J., Khan, H., Shires, K., Clarence, S., Sullivan, C., Chibwe, L., Sinton, D. and **Rochman, C.M.,** 2020. Increased temperature and turbulence alter the effects of leachates from tire particles on fathead minnow (Pimephales promelas). ***Environmental Science & Technology,*** *54*(3), pp.1750-1759.

Sopinka, N.M., Coristine, L.E., DeRosa, M.C., **Rochman, C.M.**, Owens, B.L. and Cooke, S.J., 2020. Envisioning the scientific paper of the future. ***FACETS***, *5*(1), pp.1-16.

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Richard, H., Carpenter, E.J., Komada, T., Palmer, P.T., **Rochman, C.M.** 2019. Biofilm facilitate metal accumulation onto microplastics in estuarine waters. ***Science of the Total Environment***. **683,** 600-608.

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uptake of microfibers by freshwater Asian clams (Corbicula fluminea) varies based upon physicochemical properties. *Chemosphere*. 221, 107-114.

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Rochman, C.M., Manzano, C., Hentschel, B., Massey-Simonich, S. L., Hoh, E. 2013. Polystyrene plastic: a source and sink for polycyclic aromatic hydrocarbons in the marine environment. ***Environmental Science and Technology***. 47 (24), 13976-13984..

Rochman, C.M. 2013. Plastics and priority pollutants: a multiple stressor in aquatic habitats. ***Environmental Science and Technology***. 47, 2439-2440.

Rochman, C.M., Browne, M. A., Halpern, B. S., Hentschel, B. T., Hoh, E., Karapanagioti, H. K., Rios, L. R., Takada, H., Teh, S., Thompson, R. C. 2013. Classify plastic waste as hazardous. ***Nature***, 494, 169-171.

Rochman, C.M., Hoh, E., Hentschel, B. T., Kaye, S. 2013. Long-term field measurement of sorption of organic contaminants to five types of plastic pellets: implications for plastic marine debris. ***Environmental Science and Technology***. 47, 1646-1654.

Van, A., **Rochman, C.M.**, Flores, E., Hill, K., Vargas, E., Vargas, S., Hoh, E. 2011. Persistent organic pollutant content of marine debris found on beaches in San Diego, California. ***Chemosphere*** 86, 258-263.

EDITED VOLUMES

Weisberg, S., Whitley, A., **Rochman, C.M.** 2020. Microplastics Methods. *Applied Spectroscopy*. Issue 9.

Rochman, C.M., Thompson, R. T., Regan, F. 2017.Microplastics in the Environment. *Analytical Methods.* Issue 9.

Koelmans, B, **Rochman, C.M.** 2016. Plastic debris in the aquatic environment – Mechanisms and implications. *Environmental Toxicology and Chemistry*. 35 (7) 1617 -1676.

REPORTS

FAO (2017) Microplastics in fisheries and aquaculture. (Lusher, A. and Hollman, P., eds).

GESAMP (2016). "Sources, fate and effects of microplastics in the marine environment: part two of a global assessment" (Kershaw, P.J., and **Rochman, C.M.**, eds).

STAC (2016) "Technical Review of Microbeads/Microplastics in the Chesapeake Bay".

BOOK CHAPTERS

Rochman, C.M. 2016. The role of plastic debris as another source for the bioaccumulation of chemicals in lower-trophic level organisms. *Springer Online Textbook Chapter in* ***The Handbook of Environmental Chemistry***. Springer International Publishing. 1-15.

Rochman, C.M. 2015. The complex mixture, fate and toxicity of chemicals associated with plastic debris in the marine environment. *Springer Online Textbook Chapter in* ***Marine Anthropogenic Litter.*** **Springer International Publishing**. 117-140.

FELLOWSHIPS & GRANTS *(in CAD unless noted otherwise)*

FELLOWSHIPS & AWARDS

2022	J.C. Stevenson Memorial Lecture	
2021	Dorothy Schoichet Women Faculty in Science Award of Excellence	
2021-2024	Ontario Early Researcher Award	$100,000
2021	Carolyn Tuohy Award	$2500
2021	Presidents Impact Award	$50,000
2020	Inducted into the College of the Royal Society of Canada	NA
2020	Sloan Fellowship	$75K (USD)
2019	APEC Science Prize for Innovation, Research and Education	$1200 (USD)
2014-2016	David H. Smith Postdoctoral Fellowship	$140K (USD)
2013	Knauss Fellowship	(declined)
2011-2013	ARCS Scholarship	$15K (USD)
2010-2013	NSF Graduate Research Fellowship	$120K (USD)
2012	COAST Travel Award	$1.5K (USD)
2012	COAST Graduate Student Award	$3K (USD)
2011	The Next Young WIST to Watch. AWIS Student Scholarship	$1K (USD)
2011	SETAC-ACS Student Talk Award	$1.5K (USD)

RESEARCH GRANTS

2021	Community Matters Toronto	$25K

2021	Canada Foundation for Innovation (CFI)	$390,000
2021-2022	Northern Contaminants Program	$48K
2020-2024	NSERC CaPSA	$1M
2021-2024	Human Frontiers in Science Program	$1.6M
2020-2022	ECCC – IKPP	$145K
2020-2021	Northern Contaminants Program	$36K
2020-2023	Department of Fisheries and Oceans	$210K
2020	Canadian Plastics Industry Association	$12K
2020-2021	Ontario Ministry of the Environment, Parks and Conservation	$23K
2020-2021	Southern California Coastal Water Research Project	$200K
2020	NSERC PromoScience	$50K
2020-2023	PortsToronto	$150K
2020-2021	Loblaws Foundation	$175K
2019-2020	Ocean Conservancy	$25K (USD)
2019-2021	Georgia Aquarium	$80K (USD)
2019-2021	XSeed Grant from UofT Arts and Science and Engineering	$120K
2019-2020	Environment and Climate Change Canada, Great Lakes	$25K
2019-2020	Environment and Climate Change Canada, Trash Team	$125K
2018-2021	Georgian Bay Forever	$22K
2018-2019	Ocean Conservancy	$15K (USD)
2019-2020	National Geographic	$31K (USD)
2018-2019	NSERC Engage	$25K
2018-2022	NSERC Discovery	$165K
2018-2019	SESYNC Pursuit, Co-PI: M. Barnes	$125K (USD)
2018	NCP Microplastics in the Canadian Arctic	$10K
2018-2019	San Francisco Estuary Institute (Mussels)	$19K (USD)
2018-2020	Hoover Foundation	$58K (USD)
2017-2020	ECCC, Microplastics in Great Lakes Watersheds	$90K
2017-2020	NSERC Strategic Project Grant, Co-PI: D. Sinton	$645K
2017-2020	DFO, NCAG, Co-PI: M. Diamond	$220K
2017	5Gyres	$20K (USD)
2017	Ocean Conservancy	$15K (USD)
2017-2020	San Francisco Estuary Institute (Microplastics)	$142K (USD)
2017-2020	MOECC	$105K
2017-2020	MOECC	$130K
2014	UOIP Seed Grant UC Davis, Co-PI: S. J. Teh,	$10K (USD)
2013-2015	NOAA FY2013 Marine Debris Program, Co-PI: S. J. Teh	$200K (USD)
2011-2013	EPA Superfund Region 9/Marine Debris Program	$200K (USD)
2010	Kickstarter Crowd-sourced Funding	$1.2K (USD)
2010	PADI Foundation Grant	$7K (USD)
2010-11	SoCal SETAC Research Grant	$1.5K (USD)

TEACHING

COURSES

2022	Marine Ecology, EEB434H
2022	Topics in Conservation Biology, EEB491
2019-2020	Biodiversity in the City, EEB197
2019	Applied Aquatic Ecology, grad level
2017-present	Ecosystems and the Human Footprint, EEB208H1
2008-2009	San Diego State University, Biology Lab 100

WORKSHOPS

2022	National Action Plan for Plastic Pollution in Vietnam, MCD
2021	Online Field Research Training Vietnam, VNU
2019	Toronto Science Policy Network, Making Your Work Relevant for Policy
2018	Canadian Society of Ecology and Evolution, Science Communication
2018	NACCB, Mentor/Mentee Workshop
2015-present	University of Toronto, St. George, Science Communication
2016	University of Toronto, Scarborough, Science Communication
2016	University of Toronto, Mississauga, Science Communication
2015	California EPA, Science Communication
2012	University of California, Davis, NSF GRFP Writing

INDIVIDUAL LECTURES

2020	University of Toronto, Science and Media
2019	University of Queens, Environmental Science and Policy
2016	University of Toronto, Mississauga, Science and Society
2016	York University, Resource Management
2015	University of Texas, Austin, Environmental Science Course
2015	University of California, Davis, Communication Beyond Academia
2014	University of California, Davis, Environmental Science and Policy
2013-2014	University of California, Davis, Ecotoxicology

ADVISING

POSTDOCTORAL

2017-2019	Anna Kolomijeca (Co-Supervisor)
2018-2019	Shelir Ebrahimi (Co-Supervisor)
2018-2020	Stephanie Borrelle
2019-2022	Anna O'Brian (Co-Supervisor)
2019-2022	Leah Chibwe
2019-present	Ludovic Hermabesierre
2020-present	Rafaela Gutierrez

2021-present Wilson Ramirez-Duarte
2021-present Garth Covernton

PhD

2017-2022 Lisa Erdle
2017-2022 Kennedy Bucci
2018-present Bonnie Hamilton
2018-present Rachel Giles
2018-present Samantha Athey (Co-Supervisor)
2019-present Xia Zhu
2021-present Eden Hataley
2022-present Meredith Omer

MSc

2014-2016 Heather Richard (Co-Supervisor)
2017-2019 Xia Zhu
2017-2019 Joel Kim
2018-2020 Clara Thaysen
2019-2020 Nicholas Tsui
2022-present Jacob Haney

UNDERGRADUATE THESIS

2016-2017 Monina Fe
2016-2018 Clara Thaysen (CGCS and NSERC USRA Fellowships)
2017-2018 Edie Guo (CGCS Fellowship)
2017-2020 Lara Werbowski (NSERC USRA Fellowship)
2017-2018 Jack Lin (Co-Supervisor)
2017-2020 Jacqueline Bikker
2017-2019 Aimee Huntington
2018-2019 Brenda Lim
2017-present Hayley McIlwraith
2018-2020 Annissa Ho
2018-present Cassandra Sherlock
2018-2019 Natasha Klasios
2018-2019 Cole Brookson
2018-2019 Antonino Calarco
2018-2019 Samantha Santoro
2018-2019 Ashima Kaura
2018-present Arielle Earn
2018-2019 Natasha Druric
2018-2019 Tsz Hung
2019-2020 Anna Lisa
2019-present Anthony Carrozzi

2019-2020	Keira Engelin
2019-2020	Miguel Felismino
2019-2020	Tina Wu
2018-2021	Dorsa Parto
2020-2021	Sharon Quan
2020-2021	Madeleine Milne
2020-2021	Johny Wang
2021	Gloria Gao
2021-present	Emilie Nero
2021-present	Elli Hung
2021-present	Mira Ghosh
2022-present	Mary Long
2022-present	Ariba Afaq
2022-present	Sabrina Juan
2022-present	Kate Patton
2022-present	Katie Wang
2022-present	Zoe Ungku Fa'iz
2022-present	Sabrina Zaidi

UNDERGRADUATE WORK-STUDY

2016-2017	Matthew Tulio
2018-2019	Antonino Calarco
2018-2020	Lauren Ead
2018-2020	Tina Wu
2018-2019	Asma Musa
2020-present	Madeleine Milne
2020-present	Alishba Afaq
2022-present	Karen Sit
2022-present	River Sung

UNDERGRADUATE TECH/VOLUNTEER

2018-2020	Maheen Arshad
2019-2020	Victoria Shelton
2020-2021	Jeanne Micheilin
2020-2022	Ariba Afaq
2021-2022	Gloria Gao
2021-present	Johny Wang
2021-present	Sabrina Juan
2022-present	Madeline Milne
2022-present	Katerina Carrozzi
2022-present	Yuying Chen
2022-present	Thy Doan
2022-present	Ashlyn Nance

2022-present Zoe Ungku Fa'iz
2022-present Ishani Sharma
2022-present Katrina Lee

SERVICE

DEPARTMENTAL

2021-2022 Postdoc Committee
2020-2021 Faculty Search Committee
2019-2020 Proceeding Through the Ranks Committee
2019-present Vision Committee
2018-2019 Graduate Admissions
2017-2021 Atwood Committee
2017-2018 Undergraduate Committee

EXTERNAL

2022 EEB Chair Search Committee
2021-present Massey Senior Fellow, U of Toronto
2021-present Editor at Microplastics and Nanoplastics
2019-present Guest Editor Applied Spectroscopy
2014-present Editorial Board Member, Science of the Total Environment
2013-present Scientific Advisor, Trash Free Seas Alliance, Ocean Conservancy
2010-preent 5Gyres Science Advisory Board

REFEREE ACTIVITIES

American Naturalist; Chemosphere; Comparative Biochemistry and Physiology; Current Biology; DEFRA; Ecological Applications; Environmental Chemistry; Environmental Science and Technology; Environmental Science and Technology Letters; Environment International; Environmental Pollution; Environmental Research; Environmental Toxicology and Chemistry; Estuarine, Coastal and Shelf Sciences; Frontiers in Ecology and Environment; Global Change Biology; Great Lakes Research; Marine Environmental Research; Marine Pollution Bulletin; Nature; Nature Nano; Nature Geosciences; Nature Ecology and Evolution; PLOS ONE; PLOS Biology; Proc B; PNAS; Science; Science Advances; Science of the Total Environment; Scientific Reports; TREE

PRESENTATIONS

INVITED SEMINARS

2022 Environmental Protection Agency, remote, US
2022 Michigan State University, remote, US

2021 Trash Free Seas Alliance, remote, US
2021 University of Rhode Island, RI, USA
2021 Duke, North Carolina, US
2021 University of British Columbia, BC, Canada
2021 BASF, US
2021 *North Carolina State University*, US
2021 *University of Victoria*, BC, Canada
2021 Dalhousie University, NS, Canada
2020 *York University*, Toronto, ON, Canada
2020 *Experimental Lakes Area*, Ontario, Canada
2020 *NAS Roger Revelle Lecture*, Washington DC, USA
2019 University of Guelph, Guelph, ON, Canada
2019 Ryerson University, Toronto, ON, Canada
2019 *Queens University,* Kingston, ON, Canada
2019 *Saint Louis University,* St Louis, MO, USA
2018 *UC Riverside, Environmental Science,* Riverside, CA, USA
2018 *Southern California Coastal Water Research Project,* Costa Mesa, CA, USA
2018 *McGill University, Organismal Biology,* Montreal, QC, Canada
2018 *University of Michigan, SEAS*, Ann Arbor, MI, USA
2018 *Univ. of Toronto Scarborough, Biology*, Scarborough, ON, Canada
2018 *Univ. of Toronto Mississauga, Geography*, Mississauga, ON, Canada
2018 *McMaster University, Biology*, Hamilton, ON, Canada
2017 *Univ. of Toronto St. George, EEB,* Toronto, ON, Canada
2015 *Virginia Institute of Marine Science,* Gloucester Point, VA, USA
2015 *Bodega Bay Marine Lab,* Bodega Bay, CA, USA
2015 *Ministry of the Environment,* Toronto, ON, Canada
2015 *University of Texas Austin, Hydrology,* Austin, TX, USA
2015 *UC Davis, Pharmacology and Toxicology,* Davis, CA, USA
2014 *Heriot-Watt University,* Edinburgh, Scotland
2013 *Department of Toxic Substances Control,* Berkeley, CA, USA
2009 *Scripps Institution of Oceanography,* San Diego, CA, USA

CONFERENCE PRESENTATIONS (ORAL) *Invited; **Invited Plenary
2022 7IMDC, Busan, South Korea, Sept 2022
2022 **CCFFR, Vancouver, Feb 2022
2021 *APEC, Nov 2021
2021 **Alberta Recycling Conference, Oct 2021
2021 **Emerging Contaminants Workshop, Sept 2021
2020 * Woods Hole Conference on Microplastics. October 2019.
2019 **AAAS Meeting*, Washington DC, USA
2019 *Zero Waste Conference, Vancouver, B.C., Canada
2018 *Society for Conservation Biology*, Toronto, ON, Canada
2018 **Best Brains Exchange on Microplastics, CIHR & ECCC, Ottawa, CA.

2018 **Gordon Conference, Environment (Water), New Hampshire, USA
2018 ***6th International Marine Debris Conference,* San Diego, CA, USA
2018 **6th International Marine Debris Conference,* San Diego, CA, USA
2018 *6th International Marine Debris Conference,* San Diego, CA, USA
2017 ***PICES,* Vladivostok, Russia
2017 **Japanese Fisheries Society Meeting*, Tokyo, Japan
2016 ***Our Ocean,* US State Department, Washington DC, USA
2016 *MICRO2016,* Lanzarote, Spain
2015 *Society for Conservation Biology,* Montpellier, France
2015 **GYRE Symposium,* Atlanta, GA, USA
2014 *SCB International Marine Conservation Congress,* Glasgow, Scotland
2014 **Monterey Bay Symposium*, Monterey, CA, USA
2014 ***CWEA Annual Conference,* Santa Clara, CA, USA
2013 *SETAC North America,* Nashville, TN, USA
2012 *SETAC North America,* Long Beach, CA, USA
2012 *American Chemical Society National Conference,* Philadelphia, PA, USA
2012 **Ecological Society of America National Conference,* Portland, OR, USA
2012 ***CWEA Annual Conference,* Sacramento, CA, USA
2012 **CWEA Annual Conference,* Sacramento, CA, USA
2011 *SETAC North America,* Boston, MA, USA
2011 **Women in Science and Technology,* San Diego, CA, USA
2011 *So Cal SETAC,* Huntington Beach, CA, USA
2011 *5th International Marine Debris Conference,* Honolulu, HI, USA
2010 **Marine Environmental Problems Symposium,* Matsuyama, Japan
2008 *Western Society of Naturalists Annual Meeting,* Vancouver, BC, Canada

CONFERENCE PRESENTATIONS (POSTER) *Invited
2014 *SETAC*, Vancouver, BC, Canada
2012 *American Chemistry Society,* San Diego, CA, USA
2011 **CSU COAST Faculty-Student Poster Reception,* Long Beach, CA, USA

CONFERENCE SESSION CHAIR
2022 7IMDC, Busan, S Korea
2021 Toronto Public Library Webinar (Moderator)
2021 SETAC, Remote
2018 *6th International Marine Debris Conference*, San Diego, CA, USA
2018 *6th International Marine Debris Conference*, San Diego, CA, USA
2016 *SETAC*, Orlando, FL, USA
2014 *SETAC*, Vancouver, BC, Canada
2012 *SETAC*, Long Beach, CA, USA

CONFERENCE PLANNING COMMITTEE
2021 pELAstics Project Workshop, Remote, Canada

2020	Arctic Plastics, Iceland
2019	*SETAC*, Toronto, ON, Canada
2018	*North American Congress for Conservation Biology*, Toronto, ON, Canada

PROFESSIONAL MEMBERSHIPS

2015-present	Member, American Society of Limnology and Oceanography
2014-present	Member, Society for Conservation Biology
2010-present	Member, Society of Environmental Toxicology and Chemistry (SETAC)

PROFESSIONAL WORKING GROUPS

2021-present	GESAMP Microplastic Risk
2020-2022	Microplastics Health Effects Working Group (Co-Lead)
2019-2022	Microplastics Methods Evaluation Study (Co-Lead)
2020-2021	Ocean Protection Council Microplastics Working Group
2019-present	AMAP Group on Plastics
2018-present	SETAC Interest Group on Microplastics (Co-Chair)
2018-2020	SESYNC Plastic Emissions Working Group (Co-PI)
2016-2017	FAO Plastic pollution in fisheries and aquaculture
2016-2017	GESAMP Microplastics in the environment (Co-chair)
2012-2014	NCEAS (National Center for Ecological Analysis and Synthesis)

PROFESSIONAL DEVELOPMENT

2016	Media Training, Intermedia Communications
2016	Policy Training, Fmr. US Forest Service Chief Mike Dombeck (Clinton Admin)
2015	Storytelling Training, Intermedia Communications
2015	Facilitation Training, Dovetail Consulting
2014	Leadership Training, Dr. Maureen Ryan

SELECTED OUTREACH

2021 - present	International Trash Trap Network (Co-Lead)
2020	Waste LITTERature for Waste LITTERacy virtual outreach series
2019 – present	Co-organizer, “Urban Litter Challenge” public litter cleanup event
2018 - present	Organizer, “Clean Up The Don” public litter cleanup event
2018	Speaker, “Lake Ontario Evenings” hosted by TRCA

2018	Panelist, film screening of "A Plastic Ocean"
2018	Panelist, film screening of "Smog of the Sea"
2017-present	Co-founder, Co-director, U of T Trash Team. With co-director Susan Debreceni, I created a team of students and postdocs, government agency stakeholders and relevant NGOs, to bring trash interception devices (i.e., SeaBins) to Toronto's waterfront, lead community outreach events and run school programming around waste literacy.
2017	Participant, Women in Science Group, EEB, UofT
2018-present	Board Member, Heirs to Our Ocean (NGO)
2015	Speaker, Biosphere 2 Earth Day, Tucson, AZ, USA
2015	Ocean Plastic Teacher Training, Speaker, Farallones Marine Sanctuary
2014-2015	Co-founder, WiSci, Women in Science Group, UC Davis
2014	Session Leader, Ocean Plastic Teacher Training, Monterey Bay Aquarium
2014	Webinar Speaker, Oceans of Plastic: from Science to Solutions, 5Gyres
2013	Content Advisor, "Plastics, Ahoy!" Children's book
2010-2014	Guest Blogger, DeepSea News
2013	Speaker, Community Outreach Academy
2013	Organizer, VetMed 3B Open House
2012	Panelist, Plastics Pollution Panel, Santa Monica College
2012	Speaker, "So you think you can be a marine biologist?", SDSU
2011-2012	Seminar Coordinator, SDSU Marine Ecology & Biology Student Association
2011	Speaker, Pacific Ridge School Assembly
2011	Advisor, Rise Above Plastics Campaign, San Diego Surfrider
2011	Presenter, Algalita Youth Summit
2010-2011	Presenter, Girls in Ocean Science
2011-2017	Board of Directors, New Ocean Blue (NGO)
2010	Guest Writer, Scripps Magazine

SELECTED POLICY EXPERIENCE

2022	Expert Witness, AB888 expansion in California
2021	Environment and Climate Change Canada Federal Waste Policy
2020	Reviewer of definition of microplastics for State of California
2020	Reviewer of the Canadian Scientific Assessment on Plastic Pollution
2019	Expert Witness, House Appropriations Committee, D.C.
2019	Speaker at Minister McKenna's announcement of Canada's new plastics strategy
2019	Speaker and Participant at G7 Microplastics Science Meeting, D.C.
2018	Speaker and Participant, Environmental Ministers Meeting, Canada
2018	Speaker and Participant, APEC Meeting on Marine Litter, Busan, S Korea

2018	Participant, United Nations Ad-Hoc Working Group on Marine Litter, UNE Headquarters
2018	Expert Witness, Microfiber Bill in Connecticut
2017	Speaker, A World of Blue. Annual Parliamentary Hearing at UN Headquarters
2016	Speaker, Our Oceans Conference hosted by US Secretary of State Kerry
2015	Expert Witness, AB888 (CA microbead bill)
2015	Policy Brief Published through SCB: Banning Microbeads from Personal Care Products, 1st author
2014	Reviewer, Global Oceans Assessment, United Nations
2014	Speaker, National Academies, Discussion Forum on Microplastics
2012	Speaker, USEPA Region 9, Border Meeting
2010	Participant, Ocean Conservancy, Summit on Marine Debris, Washington, DC
2010	Speaker, COMPASS Meetings, Sacramento, CA
2007	Participant, American Chemistry Council Marine Debris, La Jolla, CA

SELECTED MEDIA

My work or expertise is featured in news media (print, radio, online or TV) several times per month. Original coverage in high profile publications includes:

60 Minutes
The Atlantic
BBC
CBC
CBS
Chemical and Engineering News
The Chicago Tribune
Daily Mail
The Guardian
Huffington Post
Los Angeles Times
National Geographic
National Post
National Public Radio
Nature News
Newsweek
New Scientist
New York Times
PBS
PNAS News
Popular Science
Public Radio International
Scientific American

Smithsonian
Time Magazine
The Washington Post