Date: January 2023

# R E S U M E

**1. PERSONAL DETAILS**

Full Name: Michelle Eva Portman

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ORCID ID: <https://orcid.org/0000-0002-0010-186X>

Areas of expertise: marine and coastal planning and management, marine litter from land-based sources, marine conservation, project-based learning for environmental planning, water sensitive planning in coastal watersheds, nature-based solutions for coastal protection.

## 2. ACADEMIC DEGREES

2007 Ph.D., Public Policy (Environmental Policy track)

University of Massachusetts

Committee Chair: Professor David Terkla, Department of Economics

1991 M.Sc., Urban and Regional Planning

Technion - Israel Institute of Technology, Israel

1984 B.Sc., Political Economy of Natural Resources

College of Natural Resources

University of California at Berkeley

**3. ACADEMIC APPOINTMENTS**

2018- Assoc. Professor, Faculty of Architecture and Town Planning, Technion ̶ Israel Institute of Technology, Haifa, Israel.

2012-16 Asst. Professor, Faculty of Architecture and Town Planning, Technion

2009-11 Postdoctoral Researcher, Department of Geography, Faculty of Social Sciences, Hebrew

University of Jerusalem, Israel.

2007-09 Postdoctoral Researcher, Marine Policy Center, Woods Hole Oceanographic Institution, Falmouth, Massachusetts.

**4. PROFESSIONAL EXPERIENCE (outside academia)**

2000-08 Regional Planner IV, Waterways Regulation Program, Bureau of Resource Protection, Massachusetts Department of Environmental Protection, Boston, Massachusetts

1998-00 Regional Planner IV, Waste Planning Division, Bureau of Waste Prevention, Massachusetts Department of Environmental Protection, Boston, Massachusetts

1995-98 Senior Planner, Boston Redevelopment Authority, City of Boston, Massachusetts

1994-95 Planning Staff Head, Central District Planning Commission, Israel Ministry of the Interior, Ramle, Israel

1991-94 Planner, Conservation Department, Society for the Protection of Nature in Israel, Tel Aviv, Israel

1989-91 Planner, Planning Authority, Israel Ministry of the Interior, Jerusalem, Israel

**5. RESEARCH INTERESTS (*briefly*)**

environmental planning; spatial analysis; marine policy and conservation; coastal resource management; marine protected areas; environmental impact assessment; environmental justice;

**6. TEACHING EXPERIENCE (last 5 years)**

Environmental Planning: Water in the City (graduate, new course; main teacher)

Technion Israel Institute of Technology, 13 students

Green Roofs and Walls for Sustainable Cities (graduate, new course; main teacher)

Technion Israel Institute of Technology, 25 students

Water Sensitive Urban Planning (graduate, new course; main teacher)

Technion, Israel Institute of Technology, 20 students

Introduction to Environmental Planning (graduate; main teacher)

Technion, Israel Institute of Technology, 45 students

GIS for Planners (graduate; main teacher)

Technion, Israel Institute of Technology, 36 students

GIS Applications for Environmental Decision-making (graduate; main teacher)

Technion, Israel Institute of Technology, 7 students

Coastal and Marine Planning and Management (graduate; main teacher)

Technion, Israel Institute of Technology, 25 students

**7. TECHNION ACTIVITIES**

2022-present Academic Development Committee

2014-2019 Social & Behavioral Sciences Institutional Review Board

2013 to present Representative to the Inter-Faculty Program on Marine Engineering

**8. DEPARTMENTAL ACTIVITIES**

2019-20 Vice Dean of Student Affairs

2017- Faculty library committee

2016-18 Faculty events committee

2016-17 International exchange program committee

2012- Member of Center for Urban and Regional Studies

**9. PUBLIC PROFESSIONAL ACTIVITIES**

**Rhodes Ocean Scholar**

2014 Rhodes Academy for Oceans Policy, Rhodes, Greece (summer appointment)

**Editorial**

2022- Associate Editor for Coastal Management, Heliyon (A Cell Press journal)

1999-01 Member of Editorial Board, International Journal of Waste Management and Technology

**Occasional Reviewer for Journals**

2008 Journal of Environmental Management

2009 Coastal Management Journal

2009 Stanford Journal of Law, Science and Policy

2009 Energy Policy

2010 Journal of Integrated Coastal Zone Management

2010 Journal of Environmental Assessment Policy and Management

2011 Journal of Environmental Policy and Planning

2011 Conservation Biology

2012 Ecology and the Natural Environment

2013 International Journal of Marine Sciences

2013 Environmental Education Research

2013 Marine Ecology Progress Series

2014 PLOS ONE

2015 Marine Policy

2016 Marine Policy

2017 PLOS ONE

2017 Journal of Environmental Policy and Planning

2018 Ocean and Coastal Management

2018 Marine Policy

2018 Marine Pollution Bulletin

2018 Frontiers in Marine Science

2019 Marine Policy

2021 Planning Practice and Research

2022 Routledge Book Proposal

2022 Ocean and Coastal Management

2022 Progress in Planning

2022 Ecosystem Services

2022 Marine Policy

2022 Springer Book Chapter (Blue Flag)

2023 Human Ecology

**Other Professional Service**

2021- present, Member of Board of Directors, Mei-Carmel – Haifa Water Authority

2020- present Member, University of Kiel Marine Science Advisory Board

2016 BONUS,Baltic Sea research proposal review for years 2017

2016 Science of Marine Protected Area, Mediterranean Group, Science Advisory Committee; Associated with Oregon State University, Corvallis, USA

**10. MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Member, Israel Association for Environmental Planning

Member, Israel Society of Ecology and Environmental Sciences

Member, The Israeli Association for Aquatic Sciences

**11. FELLOWSHIPS, AWARDS AND HONORS**

2015 Quebec Labrador Foundation Middle East Program, Lab-Start Award

2010-15 Marie Curie Fellow, European Union, Framework Program 7

2011 Golda Meir Award for Postdoctoral Studies, Hebrew University, Israel

2010 Lady Davis Fellowship, Hebrew University of Jerusalem, Israel

2008 Environmental Policy McCloy Fellow, American Council on Germany

2007-09 Marine Policy Center Fellow, Woods Hole Oceanographic Institution

2007 The Award for Excellence in Public Policy, University of Massachusetts, Boston

2002 M. Lenz Memorial Award for Graduate Student Research, UMass, Boston

1984 University of California, Berkeley Senior Graduate Foreign Research Award

1979 University of California, Riverside Presidents’ Merit Award

**12. GRADUATE STUDENTS**

**Completed PhD theses**

2017 Ram Barankin, "Indicators and Information for Integrated Decisions on Climate Change: Quantitative Methodology for Understanding the Vulnerability of Coastal Communities". Dissertation committee with Professors Bob Bowen and Paul Kirshen, UMASS Boston, Current employment: Playstation, California, USA

2018 Ateret Shabtay, "Marine conservation and infrastructure planning: Is multi-use possible?” Principle Advisor M. Portman, Secondary Advisor Prof. Y. Carmel. Current employment: Society for the Protection of Nature in Israel.

**Completed MSc theses**

2016 Sharon Hanan-Salkinder, “The integration of small-scale archaeological sites in the modern urban fabric”, Primary Advisor M. Portman, Secondary Advisory Assoc. Prof. P. Plaut. Current employment: private planning firm.

2017 Emri Brickner, “Population Evacuation in Areas Exposed to Tsunami Flooding: Bat Galim as a case study” Primary Advisor M. Portman, Secondary Advisor Prof. P. Plaut. Current employment: City of Beer Sheva.

2017 Aviva Yasner, “Net Zero Energy Strategic Planning Principles:

Israeli Air Force 2025” Primary Advisor M. Portman, Secondary Advisor Prof. G. Capeluto. Current employment: private planning firm.

2018 Nadav Shapira, "Evaluation Tool for Urban Stormwater Management Urban Landscape Projects: The Rishon Lezion Lakes Project as a Case Study", Primary Advisor Assoc. Prof. T. Alon-Moses, Secondary Advisor M. Portman. Current employment: private planning firm.

2018 Eshkar Eliahou-Handler, "The Brownfields: What impact does industrial contamination of land have on the urban environment in Tel Aviv?" Advisor M. Portman with Co-advisor Yuval Portugali. Current employment: private planning firm.

2021 Asaf Zanzuri “Applying Principles of the Public Trust Doctrine and the Commons for Planning Marine Protected Areas”, Advisor M. Portman with Co-advisors: Prof. Itzhak Schnell and Dr. Daniel Mishori. Current employment: Society for the Protection of Nature in Israel.

2021 Sapir Goldwasser "Utilization of sand resources in during building crisis years in Israel",   
Advisor M. Portman with Co-Advisor: Prof. Alon Tal. Current employment: Intel

2022 Orly Babitsky “Climate change along the Mediterranean coast of Israel: assessment of trends in sea level rise and extreme climate events, and their implications using a coastal vulnerability index”. Advisor M. Portman with Co-Advisor: Prof. Colin Price. Current employment: private consultant.

**PhD theses in progress**

2018 Olga Vdov "What is Natural? Shifting Baselines in Environmental Impact Assessment", Advisor M. Portman. Expected graduation: 2023

2018 Inbar Shwartz "Utilizing Technological Advancements for Marine Spatial Planning", Advisor M. Portman. Expected graduation 2023

2020 Alexandra Ćulibrk, “Ecosystem services analysis of touristic and protected area beaches under climate change”. Primary Advisor Dr. O. Tzorakis (Department of Marine Sciences, School of Environment, University of the Aegean, Greece) Secondary Advisor M. Portman. Expected graduation: 2024

2020 Ya’ara Grossmark, “Incorporating Human-Marine Wildlife interaction in Ecosystem-based Marine Spatial Planning”. Advisor M. Portman. Expected graduation 2024

2020 Meirav Tal-Maon, “Runoff Management Using Water Sensitive Planning and Multi-Objective Optimization”. Primary Advisor Dr. D. Broitman with Secondary Advisor M. Portman, Expected graduation 2024.

**MSc theses in progress**

2020 Ortal Sankar “Court and Committee for the Protection of the Coastal Environment considerations in the interpretation of Coastal Environment Conservation Law.” Advisor M. Portman with Co-Advisor Dr. David Schorr, Expected graduation 2023.

2020 Gabrielle Gordon “Sustainable Ports in Israel”, Advisor M. Portman, Expected graduation: 2023

2020 Alon Gonen “Green roof potential for remediating surface runoff: Hadera case study”, Primary Advisory M. Portman with Secondary Advisor Assoc. Professor Dan Malkinson, Expected graduation: 2024

**13. SPONSORED LONG-TERM VISITORS AND POST-DOCTORAL ASSOCIATES**

2013-16 Dr. Yael Teff-Seker

2016 Dr. Ruth Brenan

2016-17 Dr. Shula Goulden (with Professor Tali Alon-Moses)

2017 Dr. Benny Furst

**14. RESEARCH GRANTS**

**Competitive**

2020-22 "Identification of optimal solutions for integrated runoff management in watersheds with diverse land uses and multiple stakeholders" Co-PI with Prof. Ofira Ayalon and Dr. Dani Broitman, 345,000 NIS **Israel Ministry of Agriculture**

**Industrial and other sources**

2022-23 “Catchment to Coast & Beyond: Research for sustainable waterways development” Co-PI with Prof. Michel Kaiser and Dr. Karen Alexander of Heriot Watt University, Scotland, UK, $25,000, **The British Council’s Wohl Clean Growth Alliance Project**.

2020-21 “Sustainable Governance and Management of Israel’s and the UK’s Coasts and Seas”, Co-PI with Dr. Stephen Jay, 6,000£, **The British Council’s UK-Israel Inter-University Strategic Cooperation Programme**

2018-20 Closing the urban water loop for increased sustainability (CLUWAL), Co-PI with Prof. Eran Friedler and Dr. Manfred Schuetze, 132,000 €, **German BMBF-Israel Ministry of Science and Technology**

2017-19 "On-going participation of bathing beach users in marine litter prevention" PI M. Portman; 122,000 NIS **Yad HaNadiv**

2016-19 "Coastal infrastructure planning for the promotion of marine conservation along the Israeli Mediterranean Sea". PI M. Portman, 180,000 NIS. **Israel Ministry of Infrastructure, Energy and Water**.

2015-19 "Water-Sensitive Urban Design: Best Practices and Beyond", Co-PI with Prof. Tali

Alon-Moses and Prof. Naomi Carmon $100,000 **Jewish National Fund**

2014-17 "Marine Spatial Policy Plan for the Exclusive Economic Zone (EEZ)" Co-PI with Prof. Shamay Assif, $1.2 million. **Yad HaNadiv Foundation**.

2013-15 "Ecosystem services (ES) assessment from the mountain to the sea: A multi- disciplinary method for defining ecosystem service indicators across landscape units”. Co-PI with Prof. Daniel Orenstein. NIS 150,000 **Israel Ministry of the Environment**.

2010-15 "Design and Management of Marine Reserve Networks (DEMARN)". Principal Investigator. €100,000. **Marie Curie Program of EU, FP7**. PI M. Portman

2008-09 "The Connection between Fisheries Resources and Spatial Land Use Change". PI M. Portman with Co PI Senior Scientist Dr. Di Jin. $120,000 Funded by **Cooperative Institute on Climate and Ocean Research at Woods Hole Oceanographic Institution and the National Oceanic and Atmospheric Administration.**

**15. PUBLICATIONS**

(All publications should appear in ***increasing*** chronological order).

**15.1 Theses**

1991 Master’s Thesis: *Scenic Resource Evaluation in Environmental Impact Statements*

2007 Dissertation: *From Land to Sea: the application of land protection tools to the marine environment*

**15.2 Refereed papers in professional journals**

(*students' names in italics; \* = most influential*)

**Published papers**

1. **Portman, M.E.** “Tidelands Management: Implementation of the Massachusetts Public Waterfront Act”, Journal of Environmental Policy and Planning, Vol. 8(4): 293-308, 2006.
2. **Portman, M. E.** “Zoning Design for Cross-border Marine Protected Areas: The Red Sea Marine Peace Park Case Study”, Ocean and Coastal Management Journal,Vol. 50(7):499-522, 2007.
3. **Portman, M. E.** “Coastal Protected Area Management and Multi-tiered Governance: The Cape Cod Model”, Journal of Coastal Conservation, Vol. 11(2): 121-131, 2007.
4. **Portman, M.E.**, Duff, J. A., Köppel, J., Reisert J., and Higgins, M. E. “Offshore Wind Energy Development in the Exclusive Economic Zone: Legal and Policy Supports and Impediments in Germany and the U.S.” Energy Policy, Vol. 37(9): 3596-3607, 2009.
5. **Portman, M. E.**, Jin, D., Thunberg, E. “Waterfront Land Use Change and Marine Resource Conditions: The Case of New Bedford/Fairhaven Harbor”, Ecological Economics, Vol. 68 (8-9): 2354-2362, 2009.
6. **Portman, M. E**. “From Land to Sea: The Role of Land Trusts in Marine Protection”, Society and Natural Resources, Vol. 22(1): 12-26, 2009.
7. **Portman, M. E.** “Involving the Public in Impact Assessment for Offshore Renewable Energy Facilities”, Marine Policy, Vol. 33(2): 332-338, 2009.
8. **Portman, M.E.** “Offshore Renewable Energy – Stakeholder Perceptions and Public Participation in the New Frontier”, Modern Energy Review, Vol. 2(2):114-117, 2010.
9. Sas, E., Fishhendler, I., **Portman, M.E.** “The demarcation of arbitrary boundaries for coastal zone management: The Israeli case", Journal of Environmental Management, Vol. 91(11): 2358-2369, 2010.
10. **Portman, M. E.** “Marine Renewable Energy Policy: Some U.S. and International Perspectives Compared”, Oceanography, Vol. 23(2):70-77, 2010.
11. **Portman, M. E.** “Marine Spatial Planning: Achieving and Evaluating Integration”, ICES Journal of Marine Science, 68(10): 2191-2200, 2011.
12. **Portman, M. E.**, Jin, D., Thunberg, E. “The Connection between Fisheries Resources and Spatial Land Use Change: The Case of Two New England Fish Ports”, Land Use Policy, 28(3): 523-533, 2011.
13. Giakoumi, S. Mazor, T., Franchetti, S., Kark, S., **Portman, M. E.**, Coll, M., Steenbek, J. Possingham, H. “Advancing marine conservation planning in the Mediterranean Sea”, Reviews in Fish Biology and Fisheries*.* 22(4): 943-949, 2012.
14. **Portman, M. E.**, *Nathan, D.,* Levin, N. “From the Levant to Gibraltar: A Regional Perspective for Marine Conservation in the Mediterranean Sea”, Ambio ̶ ̶ Journal of the Human Environment.41(7): 670-681, 2012.
15. **Portman, M.E.**, Esteves, L.E., Le, X. Q., Khan, A. Z. “Improving Integration for Integrated Coastal Zone Management: An eight-country study”,Science of the Total Environment*.* 439: 194-201, 2012.
16. **Portman, M. E**. “Losing Ground: Mediterranean Shoreline Change from an Environmental Justice Perspective”, Coastal Management40(4): 421–441, 2012.
17. **Portman, M.E.**, Notarbartolo-di-Sciara, G., Agardy, T., Katsanevakis, S., Possingham, H.P., di-Carlo, G. “He Who Hesitates is Lost: Why Conservation of the Mediterranean Sea is Necessary and Possible Now”, Marine Policy42: 270-279, 2013.
18. **Portman, M. E. "**Ecosystem Services in Practice: Challenges to real world implementation of ecosystem services across multiple landscapes"**, Applied Geography45: 185-192, 2013.\***
19. **Portman, M.E.** “Regulatory capture by default: Offshore exploratory drilling for oil and gas”, Energy Policy 65: 37-47, 2014.\*
20. **Portman, M.E.** “Visualization for Planning and Management of Oceans and Coasts”, Ocean and Coastal Management 98: 176-185, 2014.
21. **Portman, M.E.**, Dalton, T.M., Wiggin, J. “Revisiting Integrated Coastal Zone Management: Is It Past Its Prime?”, Environment: Science and Policy for Sustainable Development 57(2): 28-37, 2015.
22. **Portman, M.E.,** *Nathan, D.* "Conservation 'Identity' and Marine Protected Areas Management: A Mediterranean case study", Journal of Nature Conservation 24: 109-116, 2015.
23. **Portman, M.E.** "Marine Spatial Planning in the Middle East: Crossing the policy-planning divide".  Marine Policy 61: 8-15, 2015.
24. **Portman, M.E.,** Natapov, A., Fisher-Gwirtzman, D. "To go where no man has gone before: Virtual Reality in Architecture, Landscape Architecture and Environmental Planning", Computers, Environment and Urban Systems*.* 54: 376-384, 2015.
25. Kark, S., Levin, N., Klass, K., Shanis, U., Pargament, D., **Portman, M.E.**, Mandelik, Y., Orion, N., Safriel, U. et al. "Priority questions and horizon scanning for conservation:  A comparative study", PLOS ONE.11(1): e0145978, 2016.
26. **Portman. M.E.**, *Shabtay-Yanai, A., Zanzuri, A.* "Incorporation of Socio-Economic Features' Ranking in Multicriteria Analysis Based on Ecosystem Services for Marine Protected Area Planning" PLOS ONE. 11(5): e0154473, 2016.
27. **Portman, M. E.**, *Teff-Seker, Y*.  "Community-Level Environmental Projects as Learning Tools for Planners: A case study of graduate planning students". Environmental Education Research. 23(3): 415-435. 2017
28. *Brennan, R.E.,* **Portman, M.E. "**Situating Arab-Israeli artisanal fishermen’s perceptions of marine litter in a socio-institutional and socio-cultural context"**,** Marine Pollution Bulletin 115(1-2): 240-251, 2017
29. **Portman, M. E.,** *Brennan R. E.* "Marine Litter from Beach-Based Sources: Case study of an Eastern Mediterranean coastal town" Waste Management 69: 535-544 2017.
30. **Portman, M.E.,** *Teff-Seker, Y*. "Factors of Success and Failure for Transboundary Environmental Cooperation: Projects in the Gulf of Aqaba" Journal of Environmental Policy and Planning 19(6): 810-826, 2017.
31. Stelzenmüller, V., Coll, M., Mazaris, A.D., Giakoumi, S., Katsanevakis, S., **Portman, M.E.**, Degen, R., Mackelworth, P., Gimpel, A., Albano, P.G., Almpanidou, V., Claudet, J., Essl, F., Evagelopoulos, T., Heymans, J.J., Genov, T., Kark, S., Micheli, F., Pennino, M.G., Rilov, G., Rumes, B., Steenbeek, J., Ojaveer, H. "A risk-based approach to cumulative effect assessments for marine management", Science of the Total Environment 612: 1132–1140, 2018.
32. *Shabtay-Yanai, A.,* **Portman, M.E.**, Carmel, Y. "Incorporating principles of reconciliation ecology to achieve ecosystem-based marine spatial planning",Ecological Engineering120: 595-600, 2018.\*
33. **Portman, M.E.,** "Policy Options for Coastal Protection: Integrating inland water management with coastal management for greater community resilience" Journal of Water Resources Planning and Management 144(4): e05018005, 2018.
34. *Shabtay-Yanai, A*., **Portman, M.E.**, Carmel, Y., "Contributions of marine infrastructures to marine planning and protected area networking",Aquatic Conservation: Marine and Freshwater Ecosystems 28(4): 830-839, 2018.
35. *Goulden, S.,* **Portman, M.E.**, Carmon, N., Alon-Moses, T. "From Conventional Drainage to Sustainable Stormwater Management: Beyond the Technical Challenges", Journal of Environmental Management 219: 37-45, 2018.
36. *Shabtay-Yanai, A.,* **Portman, M.E.**, Ofir, E., Carmel, Y., Gal, G. "Using Ecological Modeling in Marine Spatial Planning to Enhance Ecosystem-based Management, Marine Policy, 95: 14-23, 2018.
37. Gissi, E., **Portman, M.E.**, Hornidge, A.K. "Un-Gendering the ocean: Why women matter in ocean governance for sustainability"*,* Marine Policy 94: 215-219, 2018.
38. *Shabtay, A.*, **Portman, M.E.**, Manea, E., & Gissi, E. "Promoting ancillary conservation through marine spatial planning", Science of The Total Environment, 651: 1753-1763, 2019.
39. *Teff-Seker, Y*., **Portman, M.**, Karen Kaplan Mintz, "Project-Based Learning in Education for Sustainable Development:A Case Study of Graduate Planning Students" Case Studies in the Environment pp. 1–16, 2019.
40. **Portman, M. E.,** Pasternak, G., Yotam, Y., Nussbaum, R., Behar, D. "Beachgoer Participation in Prevention of Marine Litter: Using design for behavior change",Marine Pollution Bulletin **144**: 1-10, 2**019**.
41. **Portman, M. E.,** "Detached Islands: Artificial Islands as Adaptation Challenges in the Making" Die Erde – Journal of the Geographical Society of Berlin 150 (3): 158-168, 2019
42. Mackelworth, P.C., Teff-Seker, Y., Fernandez, T. V., Marques, M., Alves, F. L., D'Anna. G., Fa, D.A., Goldsborough, D., Holcer, D., Kyriazi, Z., Pita, C., **Portman, M.E.**, Rumes, B., Warr, S.J. "Geopolitics and Marine Conservation: Synergies and Conflicts" Frontiers in Marine Science 6 (759): 1-17. 2019.
43. Rotter, A, Bacu, A., Barbier, M., Bertoni, F., Bones, A.M., Cancela, M.L., Carlsson. J., Carvalho, M.F., Cegłowska, M., Dalay, M.C., Thanos Dailianis, T., Deniz, I., Drakulovic, D., Dubnika, Einarsson, H., Erdoğan, A., Eroldoğan, O.T., Fazi, S., FitzGerald, R.J., Gargan, L.M., Gaudêncio, S.P., DeNardis, N.I., Joksimovic, D., Marija Kataržytė, M., Kotta, J., Mandalakis, M., Matijošytė, I., Mazur-Marzec, H., Massa-Gallucci, A., Mehiri, M., Nielsen, S. L., Novoveská, L., Donata Overlingė, D., **Portman, M.E.**, Pyrc, K., Rebours, C., Reinsch, T., Fernando Reyes, Rinkevich, B., Robbens, J., Rudovica, V., Sabotič, J., Safarik, I., Talve, S., Tasdemir, D., Theodotou, X., Schneider, X., Thomas, O.P., Toruńska-Sitarz, A., Varese, G.C., Vasquez, M.I.., “A new network for the advancement of marine biotechnology in Europe and beyond”, Frontiers in Marine Science 7(278), 2020.
44. **Portman, M. E**., Behar, D. “Influencing beach littering behaviors through infrastructure design: An in situ experimentation case study”, Marine Pollution Bulletin 156: 11277, 2020.
45. **Portman, M***.***E.**, *Zhulpa-Comporesi, A*. “Attitudes and behaviors of marine sports participants towards conservation and environmental protection: A case study of Tel Aviv, Israel”, Marine Policy 122: 104133, 2020.
46. *Barankin, R.*, **Portman, M.E.**, Kirshen, P., Bowen, R. “Evidence-driven assessment of climate vulnerability and equality: advancement is possible” Frontiers in Water 2(73): 544141, 2020.
47. Giakoumi, S., Pita, C., Coll, M., Franschetti, S., Gissi, E., Katara, I., Lloret-Lloret, E., Rossi, F., **Portman, M.E.**, Stelzenmüller, V., Micheli, F. “Persistent gender bias in marine science and conservation calls for action to achieve equity” Biological Conservation 257: 109134, 2021.
48. *Ćulibrk, A.,* Tzoraki, O., **Portman, M. E.** “Adaptation of a freshwater evaluation framework to a coastal system: The case of Kamari, Santorini”. Journal of Environmental Management288, 112406, 2021.
49. *Tourlioti., P.* **Portman, M. E.,** Tzoraki, O., Pantelakis, I. “Interacting with the coast: residents’ knowledge and perceptions about coastal erosion (Mytilene, Lesvos Island, Greece)”. Ocean and Coastal Management, 210: 105705, 2021.
50. Gissi, E., Maes, F., Kyriazi, Z. Ruiz-Frau, A., Frazão Santos, C.; Neumann, B., Quintela, A., Alves, F., Borg, S., Chen, W., da Luz Fernandes, M., Hadjimichael, M., Manea, E., M. Marques, M., Platjouw, F. M., **Portman, M.E.**, Sousa, L. P., Bolognini, L., Flannery, W., Grati, F., Pita, C., Văidianu, N., Stojanov, R., van Tatenhove, J., Micheli, F., Anna-Katharina Hornidge, A-K., Unger, S., “Contributions of area-based management tools to assess their contribution to the UN Sustainable Development Goals” The Journal of Cleaner Production, 330, 129910, 2022.
51. Gissi, E., Maes, F., Kyriazi, Z. Ruiz-Frau, A., Frazão Santos, C.; Neumann, B., Quintela, A., Alves, F., Borg, S., Chen, W., da Luz Fernandes, M., Hadjimichael, M., Manea, E., M. Marques, M., Platjouw, F. M., **Portman, M.E.**, Sousa, L. P., Bolognini, L., Flannery, W., Grati, F., Pita, C., Văidianu, N., Stojanov, R., van Tatenhove, J., Micheli, F., Anna-Katharina Hornidge, A-K., Unger, S., “Data about marine area-based management tools to assess their contribution to the UN sustainable development goals” Data in Brief, 40: 107704, 2022.
52. Rivers, N., Truter, H., Strand, M., Stephen,J., **Portman, M.,** Lombard, A., Amir, D., Brown, R., Cawthra, H., Faure Beaulie, N., Findlay, K., Gal, G., *Grossmark, Y*., Perschke, M., Pillay, T., Ramakulukusha, M., Smit, K., Stockdale, V., Stockill, J., *Schwartz. I.,* Treibitz, T., Vargas-Fonseca, A.O., Vermeulen, E. “Shared visions for marine planning: Insights from Israel, South Africa and the United Kingdom.” Coastal and Ocean Management 220, 106069, 2022.
53. **Portman, M.E.**, *Vdov, O.,* Schuetze, M., Gilboa, Y., Friedler, E. “Public Perceptions and perspectives on alternative sources of water for reuse generated at the household level” Journal of Water Reuse, 12(1): 157-174, 2022.\*
54. *Schwartz-Belkin, I.,* **Portman, M.E.** “A Review of Geospatial Technologies for Improving Marine Spatial Planning: Challenges and Opportunities” Ocean & Coastal Management, 231: 106280, 2023.
55. Hirschfeld, D., Behar, D., Nicholls, R., Cahill, N., Bell, R., Campo, M.,Esteban, M., Goble, B., Horton, B., James, T., **Portman, M. E.**, Rahman, M., Addo, K. A., Chundeli, F., Aunger, M., *Babitsky, O*.,Beal, A., Boyle, R., Fang, J., Gohar, A., Hanson, S., Karamesines, S., Kim,M.J., Lohmann, H. Kathy McInnes, K., Mimura N., Ramsay, D., Wenger, L., Yokoki, H. “Global survey shows planners use widely varying sea-level rise projections for coastal adaptation” Nature Communications Earth & Environment, 4:102 2023.
56. Zemah-Shamir, S., Zemah-Shamir, Z., Peled, Y., Ringnander, O. J., *Schwartz Belkin, I.,* P**ortman, M.E.**, “Comparing spatial management tools to protect highly migratory shark species in the Eastern Mediterranean Sea hotspots” Journal of Environmental Management, 337: 117691 2023.

**Refereed Publications Hebrew (Israeli) journals**

1. *Teff-Seker, Y*., **Portman, M.** "Stakeholder Participation in Planning Processes: The case of the Israel Marine Plan", Ecology & Environment, 7(1), 24-32, 2016.
2. *Furst, B.*, **Portman, M.** "'Not In My Backyard': Characteristics, causes, and responses to the NIMBY phenomena in Israel – case study analysis of energy infrastructure", Ecology & Environment, 9(2): 34-41, 2018.
3. *Salkinder (Hanan), S.*, **Portman, M.**, Plaut, P. "Integration of Archeological Parks in Urban Environments: Evaluation of the relation between site and environment", Planning: Journal of the Israel Association of Planners, 15(2), 40-62, 2018.

**Accepted papers**

**Submitted papers**

**15.3 Review papers**

**Book reviews**

Ocean Yearbook

Science

Environmental Impact

**15.4 Books**

**Monographs and textbooks**

*Compost by Gosh!* [Children’s book] Flower Press, pp. 30. 2003.

Environmental Planning for Oceans and Coasts: Methods, Tools, Technologies, Switzerland: Springer 2016, pp. 237.

**Chapters in books**

**Portman, M.E**. Developing Resource Management and Marine Policy for the Eastern Mediterranean Sea, In: *The Mediterranean Sea: Its History and Present Challenges*. Goffredo, S., Baader, H. and Dubinsky, Z. Editors, Berlin: Springer, 2014.

**Portman, M.E.,** *Elhanan, Y.* Ecosystem Services Assessment from the Mountain to the Sea: In search of a method for land- and seascape planning. In: *Urban Sustainability on the Ground and in Place.* Gatrell, J. D. Editor, Berlin: Springer, 2016

**Portman, M.E.,** *Teff-Seker, Y.* Remembering the Red Sea Marine Peace Park. In: *Marine Transboundary Conservation and Protected Areas.* Mackelworth, P. Editor, New York: Routledge 2016.

May, R., Gill, A.B., Köppel, J., Langston, R.H.W., Reichenbach, M., Scheidat, M., Smallwood, S., Voigt, C.C., Hüppop, O., **Portman, M.**, Future Research Directions to Reconcile Wind Turbine – Wildlife Interactions. In: *Wind Energy and Wildlife Interactions.* Köppel, J. Editor, Berlin: Springer 2017.

Gonçalves, L.R., **Portman, M.E.**, Augustowski, M., Giovos, I., Mackelworth, P. “Ocean Governance: Exploring how marine conservation is taken into account using Evolutionary Governance Theory”. In: *"Conservation of Living Resources in Areas Beyond National Jurisdiction. BBNJ and Antarctica Negotiations".* da Silva Almeida J.L., Editor, Rio de Janeiro: J Lumen Juris Editora 2020.

Vafeidis, A.T., Abdulla, A.A., Brotons, L., Ludwig, R., **Portman, M.**, Reimann, L., Vousdoukas, M., Xoplaki, E., Managing future risks and building socio-ecological resilience in the Mediterranean. In: *"Climate and Environmental Change in the Mediterranean Basin – Current Situation and Risks for the Future. First Mediterranean Assessment Report”.* Cramer, W., Guiot, J., Marini, K. Editors, Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France 2020.

**16. CONFERENCES**

Ginott Y., Koach J., Ramon. U. and **Portman, M.E.** "Implementation of GIS in Evaluation of Natural Landscape Resources for Land Use Planning in the Lachish Region, Israel" Proceedings of the 9th Annual Symposium on Geographic Information Systems. British Columbia, Canada, 1995.

**Portman, M.E.** "Local and State Perspectives on Brownfields in Massachusetts". National Conference of the American Planning Association. pp. 549-556, Boston, Massachusetts, 1998.

**Portman, M. E.** "Fisheries Management and Marine Biodiversity: The Case of New England Groundfish", Proceedings of the First International Conference on Coastal Conservation and Management in the Atlantic and Mediterranean. pp. 231-236. Algarve, Portugal, 2005.

**Portman M. E**., “From Land to Sea: Land Trusts and Marine Protection”, Proceedings of the 20th International Conference of the Coastal Society, pp. 304-308, St. Petersburg, Florida, 2006.

**Portman M. E**., “Waterfront Land Use Change and Marine Resource Regulation: The New Bedford Pilot Study”, Proceedings of the 21th International Conference of the Coastal Society, pp. 283-287, Redondo Beach, California, 2008.

**Portman, M.E.**,Köppel, J., Duff, J. “Offshore Wind Farm Siting in Germany and the U.S.: Legal and Policy Impediments and Supports”, Proceedings of the IEEE Oceans ’09 Conference, pp. 10-53, Bremen, Germany, 2009.

**Portman M. E**. “Marine spatial planning: achieving and evaluating integration”, Proceedings of the ICES Annual Science Conference ‘13, pp. 45-54, Reykjavik, Iceland, 2013.

**Research reports and other publications** (only publications not mentioned above)

Vafeidis, A.T., Abdulla, AA., Bondeau, A., Brotons, L., Ludwig, R., Portman, M., Reimann, L., Vousdoukas, M., Xoplaki, E., Managing future risks and building socio-ecological resilience in the Mediterranean. In: Climate and Environmental Change in the Mediterranean Basin – Current Situation and Risks for the Future. *First Mediterranean Assessment Report* [Cramer W, Guiot J, Marini K (eds.)] Union for the Mediterranean, Plan Bleu, UNEP/MAP, Marseille, France, pp. 539-588, 2020.

Alon-Moses, T., Carmon, N., Portman M., Goulden, S., Shapira, N., “Sustainable Stormwater Management in Israel: A study of Policy and Best Management Practices in Urban Open Spaces” Submitted to: *The Center for Water Sensitive Cities in Israel and KKL-JNF*, Center for Urban and Regional Studies (CURS), Technion – Israel Institute of Technology, 2020.

Sustainable Stormwater Management in Israel Schütze, M., Alex, J., Snir, O., Neta, H., Gilboa, Z., Vdov, O., **Portman, M.E.**, Friedler, E., "Closing the urban water loop – Integrated urban water and wastewater management for increasing sustainability – CLUWAL, *German-Israeli Cooperation in Water Technology Research Status Conference 2019*, Dresden, German, 24-25 September 2019

Guest Editors: **Portman, M. E**., Fisher-Gewirtzman, D., Hölscher, C., “The Use of Virtual Reality for Environmental Representations”. Special Issue in: *Computers, Environment and Urban Systems* 2015, Volume 54

**Portman, M.E.**, You'll Be Okay, Working Life Essay, *Science*, 349:6240, p.1282.

Katsanevakis, S., Mackelworth, P., Coll, M., Fraschetti, S., Macic, V., Giakoumi, S., Jones, P.J.S., Levin, N., Albano, P.G., Badalamenti, F., Brennan, R. E., Claudet, J. Culibrak, D., D'Anna, G., Deidun, A., Evagelopoulos, A., García-Charton, J. A., Goldsborough, D., Holcer, D., Jimenez, C., Kark, S., Sorenson, T. K., Lazar, B., Martin, G., Micheli, F., Milner-Gulland, E. J., Pipitone, C., **Portman, M.**, Pranovi, F., Rilov, G., Smith, R. J., Stelzenmüller, V., Vogiatzkis, I., Winters, G. "Advancing marine conservation in European and contiguous seas with the MarCons Action" *Research Ideas and Outcomes* 3: e11884, 2017.

**16. CONFERENCES**

**Plenary, keynote or invited talks**

“Ocean Conservation and Governance”, *Ocean Sustainability Science Symposium*

Kiel, Germany, 4-6 March, 2015, Plenary speaker (200 participants)

“Israel Marine Planning – Reaching Out”, *Future Oceans Spatial Planning Workshop,* GEOMAR, Kiel, Germany, 3-6 March, 2014. Invited

“Planning Tools for Sustainable use of the Marine Environment:  impact assessment, ecosystem services and marine protected areas”, *Sustainable Blue Growth in Mediterranean and Black Sea Countries*, Trieste, Italy, July 11-13, 2017. Invited.

“Marine Spatial Planning and Beyond: Basic concepts and auxiliary planning tools applied”, *Marine Spatial Planning: balancing social, economic, cultural, and ecological objectives*, NOAA and Interdisciplinary Marine Early Career Network (IMECaN) Workshop, August 17-19, 2020. On-line. Plenary speaker (300 participants)

# *“Shared Visions for Marine Planning: Insights from Israel, South Africa & the UK*” On-line conference, [On-line] Haifa, March 9-10, 2021. Plenary speaker (200 participants)

# “Marine Protection and Restoration” *5th International Forum on Marine/Maritime Spatial Planning*, Barcelona, Spain. November 21, 2022 Keynote (110 participants)

**Contributed Talks and Posters**

"Local and State Perspectives on Brownfields in Massachusetts", *Annual Conference of the American Planning Association*, Boston, Massachusetts (May), 1998.

"Source Reduction in Integrated Solid Waste Management Planning for Massachusetts". *The Fifth International Conference on Solid Waste Technology and Management.* Philadelphia, Pennsylvania. (November), 1999.

“Implementing the Massachusetts Waterways Regulation Program”, *Coastal Zone Canada,* Newfoundland (June), 2004.

“Waterfront Land Use Change, Marine Resource Conditions, and Regulation: The New Bedford Pilot Study”, *PoCoast Seminar on Coastal Research*. Sponsored by the Faculdade de Engenharia da Universidade do Porto. Portugal (May), 2008.

“Offshore Renewable Energy Siting in Germany and the United States: Legal and Policy Impediments and Supports”, *Coastal Zone ‘09*, Boston, Massachusetts (July), 2009.

“Waterfront Land Use Change and Marine Resource Conditions: The Case of New Bedford/Fairhaven Harbor”, *Coastal Zone ‘09*, Boston, Massachusetts (July), 2009.

Portman, M. E. “Losing Ground: Can coastal erosion be an environmental justice problem?” *Coastal Geotools Conference*, Myrtle Beach, South Carolina (March), 2011.

“Characteristics and Characteristic Drivers of Marine Protected Areas in the Mediterranean Sea” *The 3rd European Congress of Conservation Biology*, Glasgow, Scotland (August 28-31), 2012.

“From the Levant to Gibraltar and Back: A Regional Perspective for Marine Conservation in the Mediterranean” *First International Workshop on Conservation Planning in the Mediterranean Sea,* Santorini, Greece (April 2-5), 2012.

“Marine spatial planning: achieving and evaluating integration”, *International Council on the Exploration of the Sea Annual Science Conference ‘13*, Reykjavik, Iceland (September 22-26), 2013.

“Ecosystem services assessment from across landscape units”, *The 18th Congress of the Meso-American Society for Biology and Conservation,* Copán, Honduras, (October 13-18), 2014.

*Marine Geological and Biological Marine Habitat Mapping (BIOHAB), Salvador,* Brazil (May 2-8) 2015. Three presentations made:

a) “Designing Marine Protected Area Management Plans: Using Spatial Conservation Prioritization Methods”

b) “Ecosystem Services Assessment from the Carmel Mountain to the Sea: A multi-disciplinary method for defining ES indicators in coastal and marine landscape units”

c) “Visualization of the Marine Environment using Virtual Reality and Interactive Applications for Marine Planning”

"Factors of success and failure for transboundary environmental cooperation: projects in the Gulf of Aqaba", *Workshop I: Advancing marine conservation in the European and contiguous seas*, MarCons COST ACTION, Zagreb, Croatia (October 13-14) 2016.

Shabtay-Yanai, A.., Portman, M. E., Carmel, Y. "Marine infrastructure enclosures for enhancing marine conservation", *Maritime Spatial Planning, Ecosystem Approach and Supporting Information Systems (MaPSIS)*. Las Palmas, Gran Canaria, 24-28 April, 2017

Portman, M.E. "Incorporating principles of reconciliation ecology to achieve ecosystem-based marine spatial planning", *Ocean Governance for Sustainability Challenges, Options and the Role of Science*, OceanGov COST ACTION, Bremen, Germany, 6-8 March, 2017.

Portman, M.E. "Science for the Land-Sea Interface: Informing Coastal and Near-shore Marine Policy", *American Association for the Advancement of Science Annual Conference*, Boston, US. Session Proposed and Moderated, 16-20 February, 2017.

Portman, M.E. "**Policy Options for Coastal Protection: Integrating inland water management with coastal management in response to coastal erosion and shoreline change",** *Boundary Spanning: Advances in Socio-Environmental Systems Research,* Annapolis, US 11-13 June, 2018*.*

Shabtay-Yanai, A., Portman, M. E., Carmel, Y. "Promoting marine conservation through marine spatial planning: using ecological modelling to study coastal infrastructure management effect on the marine environment", *The 2nd Science-based Management Conference: Anthropogenic Impacts to the Mediterranean Sea.* Haifa University, June 19-20, 2018. Oral Presentation

Portman, M.E. **"Policy Options for Coastal Protection: Integrating inland water management with coastal management for greater community resilience",** *Coastal Zone Canada,* St. John's, Newfoundland, Canada, 15-19 July, 2018.

**Israel**

Portman, M.E. “Communities and Changing Marine Resources: The case of two fishing ports in the northeastern U.S.” *Annual Israel Association of Planners Conference*, Kfar HaYarok, Israel (March), 2010.

Portman, M.E. “From the Shores of Israel to Gibraltar: Current Status of Marine Protected Areas of the Mediterranean Sea”, *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Israel (June), 2011.

Portman, M.E. “Instruments of Integration for Coastal Development” *The 26th Umbrella Symposium on Sustainable Urban Development*, Technion ̶ ̶ Israel Institute of Technology, Haifa, Israel (March), 2012.

Portman, M.E. “Designation and Management of Marine Reserve Networks (DEMARN – Project)” *Annual Conference of Israel Association of Aquatic Sciences*, Israel (June), 2012.

Portman, M.E. “Ecosystem services assessment from the mountain to the sea”, *Annual Conference of the Israel Planning Association*, Jerusalem, Israel (February), 2014.

Portman, M.E. “He Who Hesitates is Lost….A Proposed Planning Process for Conservation in the Mediterranean Sea” *The 2nd International Workshop on Advancing Conservation Planning in the Mediterranean Sea,* Nachsholim, Israel (April), 2014.

Portman, M.E. “Participatory Projects as a Tool for Meaningful Environmental Learning: A case study of graduate planning students”, *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Kiryat Ono, Israel (September), 2014.

Portman, M.E. “Comparing Systematic Conservation Planning Approaches to Read-World Planning: Marine protection at Rosh HaNikra”, *Annual Conference of the Israel Geography Association*, Haifa, Israel, (December) 2014.

Portman, M.E. “Visualization of the Marine Environment using Virtual Reality and Interactive Applications for Marine Planning”, and "Designing Marine Protected Areas Management Plans: Using Spatial Conservation Prioritization Methods" *Annual Conference of the Israel Society of Ecology and Environmental Sciences*, Jerusalem, Israel (September), 2015.

Portman, M.E. "Marine Spatial Planning in the Levant: Crossing the policy-planning divide" *The First Science Based Management of Marine and Coastal Resources Convention*, Haifa, Israel (November) 2015.

Shabtai, Y., Portman, M. E., Carmel, Y. "Realizing marine conservation in enclosed marine infrastructure areas." *First Israeli Conference for Conservation Science*, Sde Boker, Israel, 3-4 April, 2017.

Shabtai, Y., Portman, M.E., Carmel, Y. "Realizing marine conservation in enclosed marine infrastructure areas", *The 45th Annual Convention for Science and the Environment*, Herziliya, July 10-11, 2017.

Portman, M.E., Furst, B. "Nimby – The Phenomenon, Characteristics and Responses" *Annual Israel Planning Association Conference*, Jerusalem, Israel (March) 2018.

Portman, M.E. "MPAs and climate change: policy, planning & management", *Climate Change and Marine Conservation*, MARCONS Cost Action, Shikmona Haifa, (March) 2018

Portman, M.E. "Challenges to Protection and Enhancement of the Marine Environment from a Mediterranean Regional Perspective", *Israel in the Mediterranean Sea Basin Research and Policy Group, Environmental Challenges and Opportunities, Interdisciplinary Center College*, Herziliya (February) 2020.

Portman, M.E., Vdov, O. "Survey of Public Perceptions on the Household Use of Alternative Water Sources", *Closing the Water Loop*, Technion (March), 2020.

Portman, M.E., Vdov, O., Friedler, E., Gilboa, Y. “Public perspectives on reuse of alternative water sources”, *The 48th Annual Convention for Science and the Environment,* on-line, October 12-13, 2020.

**Participation in organizing conferences**

Lead organizer of on-line conference Shared Visions for Marine Planning: Insights from Israel, South Africa & the UK, [On-line] March 9-10, 2021.

Organizing Committee. Closing the Urban Water Loop (CLUWAL), Haifa, Israel. March 5, 2020

Scientific Committee Member. Conference on Wind energy and Wildlife impacts (CWW 2015) Berlin, Germany, March 10-12, 2015.

Organizing Committee Member. Coastal Footprints: Minimizing Human Impacts, Maximizing Stewardship. The 21th International Conference of the Coastal Society, Redondo Beach, California, June 29 - July 2, 2008.

**Israel**

Organizing Committee Member, VizWorld, Spatial Analysis and Cognition in Architecture, Landscape, Urban Planning and Industrial Design, Haifa, November 3-5, 2013.

Organizing Committee Member, Haifa Port: Clarifying Choices for the Future. Haifa, March 11-12, 2015

Organizing Committee Member. Annual Conference of the Israel Society of Ecology & Environmental Sciences (ISEES), Tel Aviv, Sept. 16-18, 2014.

Organizing Committee Member, The Mediterranean Sea as a Strategic, Economic and Natural Resource, Haifa. May 1, 2018.

Organizing Committee Member, Population and Planning Conference, Porter School of the Environment, Tel Aviv University, February 16, 2020.

**International Service to the Field**

2019- to present

Scientific Advisory Board Member, Centre for Interdisciplinary Marine Research, Christian-Albrechts University, Kiel, Germany

2019 International Scientific Review Panel, Center for Marine and Renewable Energy, Cork University, February 2019.