Emma Dullaert

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Skills

- Fluent in Dutch and English
- Data analysis in MATLAB
- Oceanographic data collection on research vessels
- Taxonomic identification of phytoplankton and zooplankton
- Trained in safe laboratory and fieldwork practices and human subjects research (IRB).
- 6+ years of experience in customer service

Education

M.S. Oceanography
Expected Graduation Spring 2023
University of Maine – Orono, ME

B.S. Marine Science, concentrations in Oceanography and Marine Biology
Graduated Spring 2021, magna cum laude
University of Maine – Orono, ME

High School Diploma
Graduated Spring 2017, cum laude
South Burlington High School – South Burlington, VT

Research History

Graduate Research Assistant, 08/2021 to present
University of Maine – in collaboration with Dr. Lee Karp-Boss and Dr. Jeffrey Runge
Funded by the Marine Biodiversity Observation Network (MBON)

- Spatial and temporal analysis of zooplankton biomass and biodiversity data in the Gulf of Maine (GOM).
- Assisting in the collection of zooplankton samples and oceanographic data at two offshore stations in the Gulf of Maine.
- Work is expected to result in a thesis in fulfilment of the requirements for a master's degree.

Graduate Research Assistant, 05/2021 to 07/2021
Thomas Lab, University of Maine – Orono, ME

- Analyzing shellfish toxicity data and satellite measured ocean color

- Using and further developing data analysis skills in MATLAB

Student Research Assistant, 01/2018 to 05/2021
Karp-Boss Lab, University of Maine – Orono, ME

- Taxonomic photo identification of phytoplankton and zooplankton using EcoTaxa software.
- Maintaining phytoplankton cultures in the laboratory.

Undergraduate Research Assistant in Fish Community Structure and Human Dimensions 06/2019 to 03/2020
University of Maine & University of Maine Machias

- Work as a part of an interdisciplinary team consisting of students and faculty from various disciplines with the ultimate goal of preparing a collaborative manuscript for publication.
- Conduct weekly fishing surveys to document species presence and size data.
- Assist with the collection and compilation of information from community meetings to document local historical and traditional ecological knowledge.
- Communicating research findings with peers through email updates as well as two opportunities to present a poster at conferences.

Independent Studies

Undergraduate Capstone Research Experience, 2020/2021 Academic Year.
University of Maine – in collaboration with Dr. Lee Karp-Boss and Dr. Jeffrey Runge

- Spatial and temporal analysis of zooplankton biomass in the Gulf of Maine (GOM).
- Specific focus on species of *Calanus*, a key functional component of the GOM ecosystem.
- Products include a written summary of research outcomes and a poster for presentation.

Independent Study in MATLAB – Hydrographic Variability in the Gulf of Maine, Spring 2020
University of Maine – in collaboration with Dr. Andrew Thomas

- Using NERACOOS data to conduct spatial and temporal analysis of physical parameters in the Gulf of Maine to:
  1) investigate overall trends of warming and/or cooling,
  2) quantify the relationship between temperature variability and trends at the sea surface with those occurring at depth, and
  3) quantify any trends in the timing (beginning, duration, end) of seasonal stratification, a key environmental metric of biological importance
- Final product: poster presenting research findings.

Independent Study in MATLAB – Sea Surface Temperature Change in the North Sea, Fall 2019
University of Maine – in collaboration with Dr. Andrew Thomas and Mackenzie Cooper

- Analysis of spatial and temporal patterns of change sea surface temperature in the North Sea using MATLAB technology with Optimally Interpolated Sea Surface Temperature (OISST) data.
- Final product: poster presenting research findings.

Other Current and Recent Positions

Catering Waitstaff 09/2019 to present
Jolain's Gourmet Catering – Hermon, ME

- Wedding and event catering
- Serving from a buffet and plated meals

Residential Life Director 08/2021 to 12/2021
Darling Marine Center – Walpole, ME

- Providing 24/7 support for undergraduate students attending an immersive, semester-long residential marine science program
- Organizing events, outings, and once-weekly take-out meals

Undergraduate Teaching Assistant 01/2021 to 05/2021
SMS430 Microbes in the Marine Environment with Prof. Jeremy Rich – Orono, ME

- Grading and providing useful feedback on assessments (reports, slide presentations, weekly reading questions)
- Communicating with students to help complete assignments
- Assisting with preparation of class material
- Course bookkeeping

Publications

Cammen, K., G. Marafino, S. Burton, J. Dow, **E. Dullaert**, M. Jorge, K. Macolini, L. McGarry, C. Tremblay, J. Jansujwicz, T. Johnson, L. Ross, and G. Zydlewski. 2021. *Interdisciplinary research collaborative trains students to see through turbulent systems.* Oceanography 34(1), https://doi.org/10.5670/oceanog.2021.102.

Presentations

Emma Dullaert. *Spatial and Temporal Variability in Zooplankton Biomass in the Gulf of Maine*. Poster presentation. Presented during the Flash Poster Session at the UMaine Student Symposium, 04/16/2021

Emma Dullaert, Gabriella Marafino, Jessica Jansujwicz, Gayle Zydlewski, Kristina Cammen. *Understanding the fish community structure and human dimensions of the Western Passage ecosystem.* Poster presentation. Presented at SEA Fellows Symposium, Darling Marine Center, 08/06/2019.

Sarah Burton, Jillian Dow, **Emma Dullaert**, Madalyn Jorge, Kate Macolini. *An interdisciplinary approach to environmental monitoring in Western Passage.* Poster Presentation. Presented at Eastern Maine Coastal Current Collaborative State of the Science Conference, 06/17/2019.