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## CURRICULUM VITAE

PERSONAL INFORMATION	
SURNAME	SIMANTIRIS
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CURRENT POSITION(S)	
2023 -	<b>Postdoctoral researcher</b> Department of Informatics, Ionian University, Greece
2023 -	<b>Scientific/Project officer</b> Mediterranean Association to Save the Sea Turtles (MEDASSET), Greece

PREVIOUS POSITION(S)	
2020 -2023	<b>Researcher</b> Department of Informatics, Ionian University, Greece
2017 -2019	<b>Sea technician</b> Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada
2017 -2019	<b>Research assistant</b> Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada
2017 -2019	<b>Teaching assistant</b> Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada

EDUCATION	
2020 -2023	Department of Informatics, Ionian University, Greece, "Development of stochastic models and software for marine biodiversity threats: Applications to zooplankton - blue crab - microplastic pollution", <b>PhD in Environmental Informatics</b>
2017 -2019	Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia, Canada, "The Effect of Multicomponent Diffusion on the Chemical Composition of Seawater", <b>MSc in Oceanography</b>
2012 -2016	Department of Marine Sciences, University of the Aegean, Greece, "Development and evaluation of methodology assessing the connectivity between gulfs of the Aegean Sea", <b>BSc in Marine Sciences</b>

## PUBLICATIONS

- "Over 30 years of monitoring and implementing the Bern Convention's recommendations for the protection of Mediterranean sea turtles.", **Simantiris Nikolaos** et al., *Marine Policy* (2024): accepted.
- "First evaluation of microplastics in juveniles of the invasive blue crab *Callinectes sapidus* from a Mediterranean coastal lagoon.", **Simantiris Nikolaos** et al., *Estuarine, Coastal and Shelf Science* (2024): 108775.
- "The impact of climate change on sea turtles: Current knowledge, scientometrics, and mitigation strategies.", **Simantiris Nikolaos**., *Science of The Total Environment* (2024): 171354.
- "Single-use plastic or paper products? A dilemma that requires societal change.", **Simantiris Nikolaos**., *Cleaner Waste Systems* 7 (2024): 100128.
- "Towards non-invasive monitoring of non-melanoma skin cancer using Spatially-Offset Raman Spectroscopy.", Martha Z Vardaki, Eleftherios Pavlou, Nikolaos **Simantiris**, Evangelia Lampri, Konstantinos Seretis, Nikolaos Kourkoumelis., *Analyst* (2023).
- "Computing Invasive Species Population Based on a Generalized Random Walk Process: Application to Blue Crab (*Callinectes sapidus*).", **Simantiris Nikolaos** et al., *Journal of Marine Science and Engineering* 11.7 (2023): 1282.
- "Microplastics in the Mediterranean and elsewhere in coastal seas", **Simantiris Nikolaos** et al., Reference Module in Earth Systems and Environmental Sciences, Elsevier, 2023, ISBN 9780124095489, <https://doi.org/10.1016/B978-0-323-90798-9.00012-3>. (<https://www.sciencedirect.com/science/article/pii/B9780323907989000123>)
- "Effects of future climate conditions on the zooplankton of a Mediterranean coastal lagoon.", **Simantiris Nikolaos** et al., *Estuarine, Coastal and Shelf Science* 282 (2023): 108231.
- "Seasonal evaluation of floating microplastics in a shallow Mediterranean coastal lagoon: Abundance, distribution, chemical composition, and influence of environmental factors.", **Simantiris Nikolaos** et al., *Estuarine, Coastal and Shelf Science* (2022): 107859.
- "Simulation of the transport of marine microplastic particles in the Ionian Archipelago (NE Ionian Sea) using a Lagrangian model and the control mechanisms affecting their transport.", **Simantiris Nikolaos** et al., *Journal of Hazardous Materials* (2022): 129349.
- "Environmental effects on zooplankton dynamics of a shallow Mediterranean coastal lagoon (October 2020–March 2021).", **Simantiris Nikolaos** et al., *Regional Studies in Marine Science* 48 (2021): 102001.
- « Defocused Spatially Offset Raman Spectroscopy in Media of Different Optical Properties for Biomedical Applications Using a Commercial Spatially Offset Raman Spectroscopy (SORS) Device», Vardaki, M., Devine, D., Serrano, K., **Simantiris**, N., Blades, M., Piret, J. M., & Turner, R., *Applied Spectroscopy* (2019), 0003702819884625.

## CONFERENCES/WORKSHOPS/etc

- **Simantiris**, Nikolaos. Round table: “Navigating Change: Progress and prospects in the fight against marine plastic pollution” 9<sup>th</sup> Our Ocean Conference, 15-17 April 2024, Athens, Greece. Panelist.
- **Simantiris**, Nikolaos, Andreanidou Konstantina, and Sampson George. “Protecting sea turtles through the Bern Convention” ISTS42 Conference, 24-29 March 2024, Pattaya, Thailand. Poster Presentation.
- Starfa Efi, Amdrous Wassim, and **Simantiris** Nikolaos. “Communication without borders or how to overcome language, cultural and proximity barriers to increase a project’s outreach” ISTS42 Conference, 24-29 March 2024, Pattaya, Thailand. Poster Presentation.
- **Simantiris**, Nikolaos, Alexander Theocharis, and Markos Avlonitis. "Environmental effects on zooplankton dynamics of a shallow Mediterranean coastal lagoon. 50<sup>th</sup> CERF Conference, 1-11 November 2021, Virtual. Poster Presentation.
- **Simantiris**, N., Avlonitis, M., “Building a Stochastic Simulation Model for Blue Crab Population Evolution in Antinioti Lagoon” 10<sup>th</sup> HELECOS Conference, 14-17 October, Virtual. Oral Presentation.
- Rich Pawlowicz, Nikolaos **Simantiris**, Composition Changes in sea salt and their effect on conductivity/salinity/density relationships in seawater, 17<sup>th</sup> International Conference on the Properties of Water and Steam, 2 - 6 September 2018, Prague, Czech Republic. Oral Presentation.
- Martha Z. Vardaki, H. Georg Schulze, Nikolaos **Simantiris**, Dana V. Devine, Katherine Serrano, Robin F. B. Turner and Michael W. Blades, “Non-invasive quality assessment of transfusion blood using deep Raman spectroscopy”, SciX 2018, Atlanta, GA, 21- 26 October 2018. Oral Presentation
- Martha Z. Vardaki, N. **Simantiris**, G. H. Schulze, Dana V. Devine, Katherine Serrano, Robin F. B. Turner and Michael W. Blades, “Study of red cell concentrate (RCC) supernatant for the non-invasive assessment of storage-related changes using deep Raman spectroscopy”, SciX 2019, Palm Springs, CA, 13- 18 October 2019. Oral Presentation

## MEMBERSHIPS & REVIEWING ACTIVITIES

06/2024 – 02/2025	<b>Guest editor</b> at the <b>Journal of Hazardous Materials Advances (IF=5.4)</b> : Special issue “The impact of plastic pollution on marine biodiversity: Implications for the seafood industry, human health and mitigation measures”
2022 -	<b>Journal Reviewer: <i>Global Change Biology, Environmental Pollution, Estuarine Coastal and Shelf Science, SoftwareX</i></b>
2021 –	Member of the <b>Estuarine &amp; Coastal Sciences Association (ECSA)</b>
2017 -	<i>Member of The Oceanography Society (TOS)</i>

## TEACHING ACTIVITIES

2024 - 2025	Teaching “Programming I” and “Databases” at the Department of Environment, Ionian University
2017 - 2019	Teaching assistant at Department of Earth, Ocean & Atmospheric Sciences, University of British Columbia

## FELLOWSHIPS and AWARDS

2022	<b>Charles Boyden Award</b> (ECSA Association)
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## GRANT APPLICATIONS OF RELATED PROJECTS

Project Title	Funding source	Submission date	Role of the PI
BEST - Tackling Common Pressures in Agriculture and Biodiversity and Enhancing Sustainable Rural Development	NRSF (2014-2020)	2017	Researcher
BIONIAN - Actions to protect and promote biodiversity of ecosystems and areas natural beauty of the Ionian Islands Region through "smart" tracking systems, recording, digital mapping and pressure management	NRSF (2014-2020)	2018	Researcher

### 1 SCIENTIFIC ACHIEVEMENTS

#### Research publications

- **Simantiris**, Nikolaos, et al. "First evaluation of microplastics in juveniles of the invasive blue crab *Callinectes sapidus* from a Mediterranean coastal lagoon." *Estuarine, Coastal and Shelf Science* (2024): 108775.
- Martha Z Vardaki, Eleftherios Pavlou, Nikolaos **Simantiris**, Evangeliki Lampri, Konstantinos Seretis, Nikolaos Kourkoumelis. "Towards non-invasive monitoring of non-melanoma skin cancer using Spatially-Offset Raman Spectroscopy." *Analyst* (2023).
- **Simantiris**, Nikolaos, Ioannis G. Violaris, and Markos Avlonitis. "Computing Invasive Species Population Based on a Generalized Random Walk Process: Application to Blue Crab (*Callinectes sapidus*)."  
*Journal of Marine Science and Engineering* 11.7 (2023): 1282.
- **Simantiris**, Nikolaos, et al. "Seasonal evaluation of floating microplastics in a shallow Mediterranean coastal lagoon: Abundance, distribution, chemical composition, and influence of environmental factors." *Estuarine, Coastal and Shelf Science* (2022): 107859.
- **Simantiris**, Nikolaos, et al. "Simulation of the transport of marine microplastic particles in the Ionian Archipelago (NE Ionian Sea) using a Lagrangian model and the control mechanisms affecting their transport." *Journal of Hazardous Materials* (2022): 129349.
- Vardaki, M., Devine, D., Serrano, K., **Simantiris**, N., Blades, M., Piret, J. M., & Turner, R. (2019). Defocused Spatially Offset Raman Spectroscopy in Media of Different Optical Properties for Biomedical Applications Using a Commercial Spatially Offset Raman Spectroscopy (SORS) Device. *Applied Spectroscopy*, 0003702819884625.

#### Research monographs

- **Simantiris**, Nikolaos. "The impact of climate change on sea turtles: Current knowledge, scientometrics, and mitigation strategies." *Science of The Total Environment* (2024): 171354.
- **Simantiris**, Nikolaos. "Single-use plastic or paper products? A dilemma that requires societal change." *Cleaner Waste Systems* 7 (2024): 100128.

#### H-Index (Since 2019)

Scopus = 6 - Google Scholar = 6 - Research Gate = 6

#### Awards

**Charles Boyden Award** (ECSA Association 2022)