Fernando Rayón

Viña

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About me								
Name	Fernando Rayón Viña	Address	Calle Tomás A. Alonso 36					
Phone	(+34) 666601521		6A 36208 Vigo – Pontevedra					
Email	frv@tutamail.com		(Spain)					
Birth date	13 July 1989	Nationality	Spanish					
ORCID	0000-0002-1622-2180	ScopusID	<u>57200555524</u>					

Education						
Sept. 2016 – July 2019	PhD <i>Cum Laude</i> in Chemical, Environmental and Bio-alimentary Engineering (University of Oviedo). Supervisors: <u>Eva García Vázquez</u> and <u>Eduardo Dopico Rodríguez</u>					
	"Analysis and evaluation of the origin, sociocultural components and biological risks of marine litter in the Asturian coast."					
	 Focused on: Integrated Coastal Zone Management Marine litter threat assessment Invasive species monitoring and management Social implications of coastal biological impacts 					
2016	Master's Degree in Marine Conservation (University of Oviedo). Focused on: Integrated Coastal Zone Management (ICZM) Marine protected areas (MPAs) Aquaculture Invasive species Global change Evaluation of Impacts Geographic Information Systems and Remote Sensing Master's Thesis: "Social perception of biotic and abiotic marine pollution in the Cantabrian coast. A socioenvironmental approach"					
2015	Bachelor's Degree on Biology (University of Oviedo) Bachelor Thesis: "Diversity and function of insectivorous birds in cider apple crop"					

The results of this work were exposed in the 9th National Congress of Applied Entomology with the tittle: "Control biológico de carpocapsa y riqueza de aves

Fernando Rayón

Viña

en pomaradas asturianas" held at Valencia from 19 to 23 October 2015.

International research and studies

April – Doctoral international internship at the University of Klaipeda (Klaipeda, Jun. 2018 Lithuania). Supervisor: Marija Katarzyte. Focused on:

- Acquisition of new competences
- Baltic Atlantic coastal litter comparison
- · Learn of coastal litter sampling protocols
- Monitoring of IAS on marine litter

Funded by Erasmus + program grant.

Work Experience

Apr. 2021 -	Research assistant. HAB and planktonic ecology group. Spanish Oceanography
Dec. 2022	Institute (IEO -CSIC). Tasks undertaken:
	Database management and andministracion

- Database management and andministracion
- Experimental Design
- Statistical analysis with R
- Advanced graphics representation

Aug. 2019	Marine conservation & Marine litter teacher. IMBRSea Summer School, Sven Lovén Centre for Marine Infrastructure, Tjärnö, Sweden.
2018 - 2019	Honorary collaborator in the department of functional biology, University of Oviedo.

Mar. 2017 -	Researcher in University of Oviedo: Litter associated biota genetic barcoding
Feb. 2018	identification. De Visu identification of biota. Beach litter sampling.

Sep. 2016 -	Laboratory analysis for the project "Evaluación preliminar de la posible								
May. 2017	presencia del mejillón pigmeo marrón (Xenostrobus securis) en las								
	instalaciones de la central de Aboño (EDP) mediante el uso de herramientas								
	genéticas." (Preliminary evaluation of the possible presence of the brown								
	pygmy mussel (Xenostrobus securis) in the facilities of the Aboño power plan								
	through the use of genetic tools.)								

Courses

Fernando Rayón

Viña

Nov. 2022	 Specialitation programme PostgreSQL or Everybody. Coursera <u>Database Design and Basic SQL in PostgreSQL</u> <u>Intermediate PostgreSQL</u> <u>JSON and Natural Language Processing in PostgreSQL</u> <u>Database Architecture, Scale, and NoSQL with Elasticsearch coursera.org/verify/specialization/8K49JLXK424D</u> 	60h				
	Introducción a sistemas Linux y programación bash. IIM-CSIC	25h				
Jul. 2022	Data analysis with the tidyverse. Physalia Courses.	20h				
April – Oct. 2020	Environmental Management course. Cantabrian Technological Institute					
May. 2020	Linux Course. Dicampus	40h				
	Introduction to Git. DataCamp	6h				
	Building Web Applications with Shiny in R. DataCamp	4h				
Feb. 2020	Data Science: R Basics. HardvardX. edX. courses.edx.org/certificates/525d171ebb994e6bb5fbf8d3bcf0efd8	20h				
Dec. 2019	Introducción a Data Science: Programación Estadística con R. Universidad Nacional Autónoma de México – Coursera. <u>coursera.org/verify/4P7D5ZQLVD5V</u>	47h				
Jun. 2018	Introduction to R. DataCamp	4h				
May. 2018	Coastal Ecology, Monitoring & Assessment. Klaipedos Universitetas	60h				
May. 2017	Writing of Scientific Articles. University of Oviedo	20h				
Feb. 2017	Management and processing of data for research. Statistical Analysis – R Software. University of Oviedo	20h				
Feb. 2017	Management and processing of data for research. Introduction to qualitative analysis. University of Oviedo	20h				
Aug. 2016	System Approach Framework (SAF) for coastal research and management: From theory to practice. University of Klaipeda	170h				
Jun. 2016	R programming language initiation. A professional approach. University of Oviedo	45h				

Language skills

Spanish Mother tongue - Native Speaker

English C1 - Advanced knowledge

Portuguese B1 – Basic knowledge

Publications

Fernando Rayón

Viña

2022

Fernandez, S., Ibabe, A., **Rayon-Viña, F.**, Ardura, A., Bartolomé, M., Borrell, Y. J., ... & Garcia-Vazquez, E. (2022). Flotsam, an overlooked vector of alien dispersal from ports. Estuarine, Coastal and Shelf Science, 107879. https://doi.org/10.1007/s11356-021-12821-0

Rayon-Viña, F., Fernandez-Rodriguez, S., Ibabe, A., Dopico, E., & Garcia-Vazquez, E. (2022). Public awareness of beach litter and alien invasions: Implications for early detection and management. Ocean & Coastal Management, 219, 106040.

https://doi.org/10.1016/j.hal.2021.102130

2021

Ramilo, I., Figueroa, R. I., **Rayón-Viña, F.**, Cuadrado, Á., & Bravo, I. (2021). Temperature-dependent growth and sexuality of the ciguatoxin producer dinoflagellate Gambierdiscus spp. in cultures established from the Canary Islands. Harmful Algae, 110, 102130.

https://doi.org/10.1016/j.hal.2021.102130

Masiá, P.; Ardura, A.; Gaitán, M.; Gerber, S., **Rayon-Viña, F.**; Garcia-Vazquez, E., 2021. Maritime ports and beach management as sources of coastal macro-, meso-, and microplastic pollution. Environmental Science and Pollution Research. Springer. https://doi.org/10.1007/s11356-021-12821-0

Rayon-Viña, F., Parrondo, M., Borrell, Y. J., & Miralles, L. (2021). Sustainable Sea: A board game for engaging students in sustainable fisheries management. Applied Environmental Education & Communication, 1-16.

https://doi.org/10.1080/1533015x.2021.1930608

2020

Ibabe A, **Rayón F**, Martinez JL, Garcia-Vazquez E (2020) Environmental DNA from plastic and textile marine litter detects exotic and nuisance species nearby ports. PLoS ONE 15(6): e0228811. https://doi.org/10.1371/journal.pone.0228811

2019

Rayon-Viña, F.; Miralles, L., Fernandez-Rodríguez, S., Dopico, E., Garcia-Vazquez, E., 2019. Marine litter and public involvement in beach cleaning: Disentangling perception and awareness among adults and children, Bay of Biscay, Spain. Marine Pollution Bulletin 141, 112–118. https://doi.org/10.1016/j.marpolbul.2019.02.034

2018

Rayon-Viña, F.; Miralles, L.; Gómez-Agenjo, M.; Dopico, E.; Garcia-Vazquez, E.; 2018. Marine litter in south Bay of Biscay: Local differences in beach littering are associated with citizen perception and awareness. Marine Pollution Bulletin 131, 727–735.

https://doi.org/10.1016/j.marpolbul.2018.04.066

Miralles, L., Gomez-Agenjo, M., **Rayon-Viña, F.**, Gyraitė, G., Garcia-Vazquez, E., 2018. Alert calling in port areas: Marine litter as possible secondary dispersal vector for hitchhiking invasive species. Journal for Nature Conservation 42, 12–18.

Viña

https://doi.org/10.1016/j.jnc.2018.01.005

Journal referee/reviewer

Elsevier Marine Pollution Bulletin

Springer Environment, Development and Sustainability

Teaching experience and dissemination activities

Sep. 2022	Scientific	disseminator	at	the	Galician	Night	of	Researchers	(part	of	the

European Researchers' Night events)

Vigo, Galicia.

Jun. 2022 Scientific disseminator in the activities for the World Oceans Day at the

National Organization of Spanish blind people (ONCE).

Vigo, Galicia.

Sep. 2021 Scientific disseminator at the Galician Night of Researchers (part of the

European Researchers' Night events)

Vigo, Galicia.

Aug. 2019 Marine conservation & Marine litter teacher. IMBRSea Summer School, Sven

Lovén Centre for Marine Infrastructure, Tjärnö, Sweden.

2017 - 2018 Teach innovation project:

"Juegos de estrategia como herramientas para la enseñanza universitaria del concepto de sostenibilidad en la explotación de recursos marinos" (Strategy games as tools for university teaching of the concept of sustainability in the exploitation of marine resources).

Biology Faculty, University of Oviedo.

Scientific disseminator at the European Researchers' Night

Avilés, Asturias.

Sep. 2017 Masterclass lecturer at Aula de pensamiento científico taller de

Evolución: naves, puertos y contactos. (Classroom of scientific thought.

Evolution Workshop: ships, ports and contacts)

Conference disseminations

"Ciencia ciudadana y gamificación como estrategias educacionales alternativas para enseñar conservación marina en las universidades" (Citizen science and gamification as alternative educational strategies to teach marine conservation in universities)

Oral presentation

Nov. 2017

Congreso Internacional de Innovación Docente e Investigación en Educación Superior (CIDICO)

Fernando Rayón

Viña

Madrid, November 2019

"Juegos de estrategia como herramientas para la enseñanza universitaria del concepto de sostenibilidad en la explotación de recursos marinos" (Strategy games as tools for university teaching of the concept of sustainability in the exploitation of marine resources).

Oral presentation

Jornadas de Innovación docente.

Mieres, January 2019

"Juegos de estrategia como herramientas para la enseñanza universitaria del concepto de sostenibilidad en la explotación de recursos marinos." (Strategy games as tools for university teaching of the concept of sustainability in the exploitation of marine resources)

Poster presentation

Jornadas de Innovación docente.

Mieres, January 2019

"Fight against beach litter: a matter of perception and awareness"

Oral presentation

Youmares 9. The Oceans: Our research, Our future

Oldenburg, 11 - 14 September 2018

"Marine debris, a socioenvironmental approach for new solutions"

Oral presentation

Alertools: Scientific & Educational Strategies for Early Detection of Biological Invasions

Avilés, 13 - 15 October 2016

La basura marina: el caballo de troya del s. XXI (Marine litter: Trojan horse of the XXI century)

Poster presentation

Alertools: Scientific & Educational Strategies for Early Detection of Biological Invasions

Avilés, 13 - 15 October 2016

"Control biológico de carpocapsa y riqueza de aves en pomaradas asturianas" (Biological control of carpocapsa and richness of birds in Asturian cider apple crops)

Poster presentation

Congreso Nacional de Entomología Aplicada.

Valencia, 19 - 23 October 2015

Tools & Skills

Fernando Rayón

Viña

- Proficiency in statistical analysis and software (R, JAMOVI, RStudio and SPSS)
- Geographic Information Systems (QGIS software) software knowledge
- Advanced Linux OS knowledge (ArchLinux, Debian and derivatives)
- Knowledge in Linux shell language (Bash)
- Advanced knowledge in Office suites usage (Microsoft Office & LibreOffice)
- Knowledge in Latex, Markdown, HTML and CSS languages

- Expertise in data science with Rstudio and Tidyverse
- GIT (Github & GitLab) for academics knowledge
- Knowledge in genetics laboratory methodologies: DNA extraction, PCR, etc
- Advanced knowledge in databases (postgreQSL)
- Driver's license B
- Knowledge in environmental biology and ecology sampling methodologies and data management

Registry of intellectual property

Oct. 2018 Educational boardgame: Sustainable Sea

Authors: Marina Parrondo Lombardia; Fernando Rayón Viña; Laura Miralles

López

Application No: SAL2019014231

Country of registration: Spain, Principality of Asturias