

CURRICULUM VITAE: NÚRIA CASACUBERTA AROLAPERSONAL INFORMATION

- Family names, Name: Casacuberta Arola, Núria
- Nationality: Spain (Catalonia)
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- Researcher ID (OrcID): 0000-0001-7316-1655

EDUCATION

- *January 2006 – February 2011. PhD Thesis* (ICTA-UAB). Date of PhD defense (viva voce): 07.02.2011. Supervisors: Dr. Pere Masqué Barri and Dr. Jordi Garcia Orellana
- *September 2006 – May 2007: MSc in Environmental Sciences* (ICTA-UAB). Advisor: Dr. Pere Masqué Barri.
- *September 2000 – August 2005: BSc. Degree in Environmental Sciences.* (ICTA-UAB).
- *September 2004 – June 2005: Final Project BSc. Degree in Environmental Sciences.* Politecnico di Torino. Advisor: Dr. Elena Comino.
- *October 2002 – June 2003: 3rd year of BSc. Degree in Environmental Sciences.* University of Glasgow. Erasmus Scheme.

EMPLOYMENT HISTORY

- *From July 2021:* Assistant Professor of Physical and Tracer Oceanography, ETH Zurich.
- *September 2020 – June 2021:* Senior scientist at Inorganic Environmental Geochemistry, ETH Zurich
- *June 2018 – August 2020:* Scientist at the Laboratory of Ion Beam Physics (LIP), ETH Zurich.
- *June 2015 – May 2018:* SNSF Ambizione fellow at ETH Zürich at LIP, ETH Zurich.
- *March 2013 – March 2015:* Postdoctoral fellow at ETH Zürich. Host: Hans-Arno Synal. Advisor/s: Dr. Marcus Christl and Prof. Dr. Hans-Arno Synal.
- *February 2011 - March 2013:* Postdoctoral position ICTA-UAB, Barcelona. Advisor: Dr. Pere Masqué.

INSTITUTIONAL RESPONSIBILITIES

- Since January 2021: **Nominated member** of Swiss Commission of Oceanography and Limnology.
- *Since October 2019:* **Nominated member** from Swiss representative to Scientific Commission of Oceanic Research (SCOR).
- *April 2018 - October 2020:* **Co-opted executive member** of SCOR, representing the Early Career Scientists.

APPROVED RESEARCH PROJECTS (as Principal Investigator)

- *December 2020:* **ERC Consolidator GAP-101001451.** A New Era of Transient Tracers in the Arctic and Atlantic oceans (TITANICA)". Amount funded: 2,611.329€.
- *August 2020:* **PRIMA SNF PR00P2_193091.** "How fast do Atlantic Waters circulate and what are their pathways through the Arctic Ocean and in the Meridional Overturning Circulation? New insights from Transient Tracers (TRACEATLANTIC)". Amount funded: 1,463.329 CHF.
- *May 2019:* **Scientific exchange (workshop) IZSEZO_186507.** "The use of I-129 as tracer of Atlantic Waters in the Arctic Ocean: where are we and future perspectives". Amount funded: 5.100 CHF.
- *June 2017:* **Scientific exchange IZSEZO_177049 SNSF.** "Improving our knowledge of U-236 as an oceanographic tracer by the measurement of Irish Sea sediments". Amount funded: 7.000 CHF. Started in 01.08.2017.
- *June 2016:* **ETH Zurich Research Grant ETH-06 16-1:** "Combining ²³⁶U with other multi-sourced anthropogenic tracers as a new tool to study ocean circulation". PhD candidate: Anne-Marie. Amount funded: 223.900 CHF. Started in 01.02.2017.
- *August 2014:* **Ambizione SNSF PZ00P2_154805/1:** "A new multitracer approach in oceanography: combining ²³⁶U with conventional anthropogenic radionuclides in the Arctic and Atlantic Oceans". Amount funded: 448.750 CHF. Started in 01.06.2015.
- *December 2012:* **ETH Zurich Postdoctoral Fellowship FEL-03 12-2:** "Uranium-236 as a new oceanographic tracer". Amount funded: 218.000 CHF. Started in 01.03.2013.

SUPERVISION OF JUNIOR RESEARCHERS AT GRADUATE AND POSTGRADUATE LEVEL

- Supervision of **PhD: Duncan Dale** (ETH Zürich). Ongoing since 01.10.2021.
- Supervision of **PhD: Annabel Payne** (ETH Zürich). Ongoing since 15.09.2021.
- Supervision of **PhD: Lisa Leist** (ETH Zürich). Ongoing since 01.03.2021.

- Supervision of **PhD: Anne-Marie Wefing** (ETH Zürich). Defended on 04.03.2021.
- Supervision of **PhD: Maxi Castrillejo Iridoy** (ICTA-UAB, Barcelona). Defended on 22.09.2017
- Supervision of bachelor students during their final project in Environmental Sciences degree in Universitat Autònoma de Barcelona: E. Lopez-Castillo, M. Vilarrasa, D. Mulas.

TEACHING ACTIVITIES

- **ETH Zürich**, Earth Sciences Department: Master course “Radionuclides as Environmental Tracers”. Academic year: 2019.
- **ETH Zürich**, Physics Department: VP, Physikpraktikum; Environmental Radioactivity (laboratory assistant). Academic years: 2013-2019.
- **Universitat Autònoma de Barcelona**, Environmental Sciences Department:
 - Radiation Physics (laboratory assistant and class exercises). Academic years: 2009 – 2012.
 - Environmental Radioactivity (laboratory assistant and class exercises). Academic years: 2009 – 2012.

MEMBERSHIP IN PANELS, BOARDS, etc. AND INDIVIDUAL REVIEWING ACTIVITIES

- **Jury Expert** on the PhD board of Joshua Chaplin (CHUV’s Institute of Radiation Physics)
- Member of the **Institute Board** of the Institute of Particle Physics and Astrophysics representing the postdocs and senior scientists.
- Scientific Committee on Oceanic Research (SCOR). **Member of working group** (WG) 146 Radioactivity in the Ocean, 5 decades later (RiO5). Chairs: Ken Buesseler (USA) and Minhan Dai (China-Beijing).
- **Partnership** to COMET-FRAME European Project. Coordination and implementation of a pan-Europe instrument for radioecology; The impact of recent releases from the Fukushima nuclear accident on the marine environment.
- **Reviewing** activities in scientific journals and **Editor** of a Research Topic in Frontiers.

ACTIVE MEMBERSHIPS IN SCIENTIFIC SOCIETIES, FELLOWSHIP IN RENOWNED ACADEMIES

- European Geophysical Union (EGU)
- American Geophysical Union (AGU)
- Association for the Sciences of Limnology and Oceanography (ASLO).
- GEOTRACES

ORGANISATION OF CONFERENCES

- Session convener in Goldschmidt Conference 2019. Session title: Understanding Changing Ocean Circulation and Biogeochemistry.
- Organizer of the workshop at ETH in June 2019: The use of I-129 as tracer of Atlantic Waters in the Arctic Ocean: where are we and future perspectives.
- Organizer of the Arctic GEOTRACES Early Career Event at ASLO 2017.
- Session convener in the Ocean Science Meeting 2014. Session title: Application of natural and anthropogenic radionuclides to the study of ocean processes.

OTHER PRIZES, AWARDS, FELLOWSHIPS

- *November 2018*: Offered a **Tier 2 Canada Research Chair (CRC) Professorship** in the André E. Lalonde Accelerator Mass Spectrometry Laboratory, at the University of Ottawa. Declined for family reasons.
- *June 2012*: **Short Term Scientific Mission. Cost Action COST-STSM-ES0801-06380**. Host: Marcus Christl, Laboratory of Ion and Beam Physics, ETH Zürich. Duration: 2 months.
- *March 2012*: **Short Term Scientific Mission. Cost Action COST-STSM-ES0801-06348**. Host: Marcus Christl, Laboratory of Ion and Beam Physics, ETH Zürich. Duration: 3 weeks.
- *November 2009*: **I3 Short term fellowship**. Host: Dr. Keith Eckerman, Oak Ridge National Laboratories. Duration: 2 months.
- *June 2008*: **Young Investigator’s Award**. International Conference on Radioecology and Environmental Radioactivity, 15-20 June 2008, Bergen, Norway.
- *October 2007*: **Pre-doctoral fellowship** B3INT2006-03. Duration 4 years.