

SHORT CURRICULUM VITAE – PROF. ISAAC SANTOS

Name: Isaac R. Santos

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• **BIO** Prof. Isaac Santos is an AGU Medalist and Fellow. His experience includes resolving coastal carbon budgets, submarine groundwater discharge and greenhouse gas fluxes, leading to awards for excellence in research, teaching, and community engagement. He has performed research in a wide range of ecosystems from headwater streams to the deep ocean, from both poles to the tropics. This includes the large expeditions (>10 people) in Brazil, Australia, Sweden, Germany, Japan, China, and large cruises to Iceland and the Baltic Sea. His research relies on interdisciplinary collaboration with >800 co-authors worldwide. Santos serves as the Editor in Chief of the premier journal Global Biogeochemical Cycles.

• EDUCATION

2008: PhD Chemical Oceanography, Florida State University, USA.

2005: Masters in Environmental Geochemistry, Universidade Federal Fluminense, Brazil

2003: B.Sc. Oceanography with Honours, Universidade Federal do Rio Grande, Brazil

• KEY POSITIONS

2019-current: Professor of Marine Biogeochemistry, University of Gothenburg, Sweden.

2009-current: Postdoc (2009)/Assistant (2009-)/Associate (2012-)/Full Professor (2015-2019), Adjunct Professor (2019-) in Biogeochemistry, National Marine Science Centre, Australia.

• PUBLICATION SUMMARY

I have published >280 peer reviewed articles, including 32 first-authored and 142 first authored by supervised students. I guided >40 students on their journey to their first publication. My research has been published in leading disciplinary journals including >45 papers in AGU journals; >30 papers in ASLO journals, and 15 in Nature family journals.

• BIBLIOMETRIC INDICATORS

My H-index is 79 and has grown at a rate of ~5 per year since PhD completion in Dec 2008. I have >20,000 citations with >3000 citations in 2025 alone (Google Scholar). My papers are on average at the top 83% centile of citations in my field. I have 11 papers in the top 1% centile (Web of Science).

• EDITORSHIPS

Editor in Chief of Global Biogeochemical Cycles since January 2022. I have also served as Associate Editor for Limnology and Oceanography: Methods, Marine Chemistry, ECSS, and Estuaries and Coasts.

• FELLOWSHIPS (SELECTED)

2018: AGU Fellow “*recognizing AGU members who have made exceptional contributions to Earth and Space Sciences*” given to “*no more than 0.1% of the AGU membership annually*”.

2017: Visiting Research Fellow at the Research Institute for Humanity and Nature in Japan.

2016: Australian Research Council Future Fellowship. Australian funding scheme “*to attract and retain the best and brightest mid-career researchers*” within 5-15 years post PhD completion.

2014: Australian Research Council DECRA Fellowship to “*support excellent basic and applied research by early career researchers*” within 5 years of PhD completion.

2013: Visiting Research Fellow (sabbatical) at the Hanse-Wissenschaftskolleg in Germany.

2005: Fulbright Fellowship to pursue a PhD Degree at Florida State University

• PRIZES/AWARDS (SELECTED)

2019: Australian Academy of Science Anton Hales Medal for “*distinguished research in the Earth Sciences by a researcher up to 10 years post-PhD*”.

2018: American Geophysical Union’s Macelwane medal recognising ‘*significant contributions to the geophysical sciences by an outstanding early career scientist*’.

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2013: SCU Excellence in Community Engagement Award “*For performing community-driven research and using scientific evidence to enlighten the coal seam gas debate*”.

2012: SCU Vice Chancellor’s Award for excellence for early career research performance.

2011: Coastal and Estuarine Research Federation (CERF) Cronin Award for my early career research linking biogeochemistry to hydrology in coastal ecosystems.

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL RESEARCHERS

Postdoctoral researchers: 8, including 5 with prestigious fellowships such as Formas, VR, Marie Curie, and DECRA.

PhD students: 25 completions. Main supervisor of 13 PhD students and co-supervisor of 12. Currently the main supervisor of 3 PhD students and co-supervisor of other 3.

Honours and MSc students: 30 completions as the main supervisor..

• PROFESSIONAL SERVICE AND COMMITTEES

I have served in many internal and external committees and engaged in administrative duties. For example, I currently serve in my Department’s leadership team, was the deputy director of a research centre in Australia, and served in grant review panels in Sweden, Portugal, France, Australia, Brazil, India, South Korea, and China. I represent Sweden in the US GEOTRACES program. I have also supported the development of Marine Science BSc degrees, developed institutional strategies in Marine Science, and served in >6 faculty recruitment panels in my institutions. I have organized sessions in many international scientific meetings, including sessions in the EGU General Assembly, ASLO Aquatic Sciences Meetings, Ocean Sciences Meeting, and AGU Fall meeting.

• INVITED PRESENTATIONS (SELECTED)

I have given 20 invited/keynote/plenary talks in major conferences, including the Gordon Research Conference (x2), Goldschmidt (x2), the Australian Marine Science Association Conference, the International Estuarine Biogeochemistry Symposium, the AGU Fall Meeting (x 3), etc. I have also given >40 university department talks in 12 countries.

• CAREER FUNDING SUMMARY

I have been a PI in 34 funded research grants in Australia and 4 in Sweden. Most of these projects include multiple collaborators. I have led 26 of those funded projects. My research grants include 16 prestigious Australian Research Council (ARC) projects (6 of which as lead PI), and 2 Swedish Research Council grants (including a VR Konsolidator with a 6% success rate). Most of my funding has been used to support the development of PhD students and postdocs. I proudly mentor my team on all aspects of the research process.

• INTERACTIONS WITH THE MEDIA

I have given >100 interviews to several media outlets. My research has been featured on many websites, blogs and mainstream media. My work has been labelled as “highly significant” by major media outlets (ABC’s 7.30 Report) and has been credited with “opening up a new debate of national significance” (ABC’s Background Briefing). Some media commentators have used our work as an example of research with major societal implications and have highlighted our integrity (Triple J Hack Show). A summary of our group’s media appearances can be seen on <https://www.barefootbiogeochemistry.com/media>