Alessio **Rovere**

Curriculum Vitae - Versione Italiana

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TITOLI DI STUDIO ACCADEMICI

Il mio percorso accademico si è svolto presso l'Università di Genova, Italia, rinomata per la sua eccellenza nelle scienze ambientali marine e nelle geoscienze. Ho vinto due premi di laurea, uno per la tesi triennale e uno per la magistrale. Durante il mio dottorato, ho partecipato a diversi soggiorni di ricerca all'estero e ho ottenuto la *"European Ph.D. Label"*.

Università degli Studi di Genova | *Ph.D. in Marine Sciences* **06/2011**

Il mio dottorato di ricerca ha ottenuto il riconoscimento *"European Ph.D. label"*. In quanto tale, ha richiesto almeno sei mesi di ricerca all'estero, la valutazione della tesi da parte di due professori provenienti da paesi europei distinti, la partecipazione di almeno un membro della commissione proveniente da un paese europeo diverso dall'Italia, e la difesa della tesi in una lingua ufficiale dell'UE diversa dall'italiano. Il mio principale supervisore è stato il Prof. Marco Firpo.

Tesi: *Rocky Coasts in the Ligurian Sea: Morphology, Evolution, and Management Aspects*.

Periodi all'estero durante il dottorato: University of Western Australia, AU (2010, 1 mese); Brunel University, UK (2010, 4 mesi); University of the Aegean, GR (2010, 17 giorni); University of the Aegean, GR (2009, 1 mese).

Università degli Studi di Genova | *LM in Sc. Ambientali Marine* **07/2006**

Ho completato un corso di laurea magistrale di due anni in Scienze Ambientali Marine, durante il quale ho ricevuto una borsa di studio ERASMUS. Ho conseguito un voto finale di 110/110. I miei principali supervisori sono stati il Prof. Marco Firpo e il Prof. Carlo Nike Bianchi.

Tesi: *Cartografia e Geomorfologia del Fondale Marino nell'Area Marina Protetta di Bergeggi (SV)*.

Borsa di studio ERASMUS: **2004** Universidad de Las Palmas de Gran Canaria, ES (3 mesi, 18 giorni).

Premio di Laurea: "Premio Parchi Cum Laude", Regione Liguria (2010), secondo premio ex-aequo.

Università degli Studi di Genova | *LT in Scienze Ambientali* **02/2004**

Ho completato un corso di laurea triennale in Scienze Ambientali, diplomandomi con il massimo dei voti, 110/110. Ho svolto la mia tesi sotto la guida del Prof. Carlo Nike Bianchi.

Tesi: *Lineamenti geologici e geomorfologici dei fondali dell'Isola di Bergeggi legati all'istituzione dell'Area Marina Protetta*.

Premio di Laurea: "Prix Alain Vatrican 2003 (RAMOGE, Monaco)" primo premio ex-aequo.

ESPERIENZA DI INSEGNAMENTO E RICERCA

Dopo aver completato il dottorato, la mia carriera accademica si è principalmente sviluppata all'estero. Ho trascorso due anni negli Stati Uniti presso la Columbia University, classificata al 17° posto nel World University Rankings 2024 di THE, e otto anni alla Universität Bremen, riconosciuta come *"Università di Eccellenza"* tedesca. Sono tornato in Italia nel 2021. Dal marzo 2014, a soli due anni e nove mesi dopo il dottorato, ho guidato in modo indipendente il mio gruppo di ricerca.

Università Ca' Foscari Venezia | *Professore Associato* **11/2021 - Presente**

Nel ruolo di Professore Associato, le mie responsabilità includono insegnamento, ricerca e amministrazione accademica. Attualmente dirigo un gruppo di ricerca composto da quattro ricercatori post-dottorato. La mia nomina a Ca' Foscari è avvenuta tramite un incarico diretto in seguito alla valutazione positiva del Ministero dell'Università e della Ricerca (prot. n. 11888 del 4.09.2021), ai sensi dell'articolo 1, comma 9 della Legge n. 230/2005.

Universität Bremen | *Professore* **04/2020 - 10/2021**

Oltre alla mia posizione di *"Independent Researcher"*, mi è stato conferito il titolo di *"Professor"* in conformità con l'articolo 17 della Legge sull'Istruzione Superiore dello Stato di Brema.

Universität Bremen | *Research group leader* **03/2019 - 10/2021**

Come *"research group leader"* di ruolo presso il MARUM (Center for Marine Environmental Sciences) dell'Università di Brema, ho guidato il gruppo di ricerca *"Sea Level and Coastal Changes"*. Le mie responsabilità includevano la direzione di programmi di ricerca e l'adempimento degli obblighi di insegnamento presso l'Università, con un focus primario sulla ricerca.

Universität Bremen e Leibniz ZMT | *Young group leader* **03/2014 - 02/2019**

Come *"Young Research Group Leader"* (posizione tenure-track) presso il MARUM (Center for Marine Environmental Sciences) e il Leibniz Center for Tropical Marine Research (ZMT), ho fondato e diretto il gruppo di ricerca *"Sea Level and Coastal Changes"*. Il mio ruolo comprendeva la guida di progetti di ricerca, la gestione di fondi e la richiesta di finanziamenti. Ho inoltre partecipato alle attività didattiche dell'Università di Brema.

Columbia University | *Ricercatore Post-Dottorato* **02/2012 - 02/2014**

Come *"postdoctoral researcher"* presso il Lamont-Doherty Earth Observatory della Columbia University, ho svolto ricerche nell'ambito del progetto finanziato dalla US National Science Foundation *"PLIOcene MAXimum sea level (PLIOMAX)"*, sotto la guida della Prof.ssa Maureen E. Raymo.

TRASFERIMENTO TECNOLOGICO

Durante il mio dottorato all'Università di Genova, ho co-fondato SeaMap srl, una società di consulenza ambientale, in collaborazione con sei partner. L'azienda ha ottenuto finanziamenti iniziali attraverso un consorzio avviato dall'Università di Genova (UNITI) ed è stata successivamente riconosciuta come spinoff dell'università. Come Amministratore Unico ho gestito le operazioni fino alla sua chiusura. Nel 2011, SeaMap ha ricevuto il premio *"Italia degli Innovatori"* dall'*"Agenzia per la diffusione delle tecnologie per l'innovazione - Presidenza del Consiglio dei Ministri"*

SeaMap srl | *Amministratore Unico* **10/2010 - 12/2016**

Nella funzione di Amministratore Unico, ho guidato gli aspetti tecnici e amministrativi dei progetti commerciali, gestendo in parallelo le attività di ricerca e sviluppo. Sono stato responsabile dell'impiego dei fondi di avviamento e ho gestito, in totale, circa 150.000 (esclusa l'IVA) euro in progetti di vario tipo.

ALTRE POSIZIONI DI RICERCA O INSEGNAMENTO

Oltre alle mie posizioni di lavoro accademiche principali, ho ricoperto diversi incarichi come 'faculty adjunct'.

Universität Bremen | *Professore Onorario* **03/2024 - Presente**

l'Universitá di Brema mi ha conferito il titolo di *"Professore Onorario"*. Questo incarico implica una partecipazione attiva nelle attività di insegnamento e ricerca.

MARUM - Universität Bremen | *Membro Esterno* **10/2021 - Presente**

Come membro esterno del MARUM, mi si richiede di partecipare attivamente nelle attività di ricerca all'interno del cluster designato, dedicando tempo a riunioni di progetto. e partecipando a comitati di tesi.

LDEO - Columbia University | *Adjunct Research Scientist* **04/2014 - 08/2021**

Come *Adjunct Research Scientist* presso il Lamont-Doherty Earth Observatory della Columbia University, il mio ruolo prevedeva la partecipazione alle attività di ricerca, mantenendo al contempo la mia affiliazione primaria con un'altra istituzione.

INCARICHI UNIVERSITARI

Come Professore Associato all'Università Ca' Foscari, ho diversi incarichi relativi alla supervisione e gestione delle attività didattiche e di ricerca.

Università Ca' Foscari Venezia | *Coordinatore Collegio* **04/2024 - Presente**

Come Coordinatore del collegio didattico in Scienze Ambientali, nominato dal Consiglio del Dipartimento DAIS di Ca' Foscari il 26.03.2024, gestisco la supervisione e l'implementazione del Programma di Studio in Scienze Ambientali, inclusa la sua continua revisione. Promuovo il processo di Garanzia della Qualità, allineandolo agli obiettivi strategici dell'Università e del Dipartimento.

Università Ca' Foscari Venezia | *Collegio di Dottorato* **05/2023 - Presente**

Sono membro del Collegio di Dottorato per il *"Dottorato di Interesse Nazionale in Scienze Polari"* presso l'Università Ca' Foscari di Venezia.

Università Ca' Foscari Venezia | *Collegio di Dottorato* **05/2022 - Presente**

Sono membro del Collegio di Dottorato in *"Scienze Polari"* presso l'Università Ca' Foscari di Venezia.

Università Ca' Foscari Venezia | *Commissione ERASMUS* **12/2022 - Presente**

Sono membro della *"Commissione Erasmus per le Scienze Ambientali"* (nominato dal Consiglio del Dipartimento DAIS di Ca' Foscari il 13.12.2022). Supervisiono le richieste di borse di studio ERASMUS e contribuisco all'internazionalizzazione del nostro corpo studentesco.

Università Ca' Foscari Venezia | *ERC Board* **09/2022 - Presente**

Sono membro dell'ERC Board di Ca' Foscari (nominato con Decreto Rettorale di Ca' Foscari 815/2022), valuto le domande e fungo da collegamento tra il mio Dipartimento e i Principal Investigators dei progetti ERC che inizialmente avevano scelto un'altra istituzione italiana o straniera come Istituzione Ospitante ma intendono trasferirsi a Ca' Foscari. Cerco attivamente ricercatori di talento e avvio contatti con loro.

Università Ca' Foscari Venezia | *ESA Lab* **2022 - Presente**

Sono membro del Comitato Direttivo di *"ESA Lab@Ca' Foscari"* (Ca' Foscari e Agenzia Spaziale Europea), che promuove, coordina e supporta le attività di ricerca, le collaborazioni scientifiche, le iniziative didattiche e gli eventi scientifici relativi ai dati e alla ricerca spaziale.

ALTRI INCARICHI

Sono un membro attivo della comunità scientifica internazionale attiva sui cambiamenti del livello del mare e processi costieri.

INQUA | *Presidente Commissione INQUA CMP* **2023 - Presente**

Come Presidente della Commissione *"Coastal and Marine Processes"* della International Union for Quaternary Science (INQUA), guido le decisioni strategiche e supervisiono le domande di finanziamento per conferenze e workshop.

SCAR-INSTANT | *Comitato Direttivo* **2022 - Presente**

Come membro del Comitato Direttivo del progetto *"Instabilities and Thresholds in Antarctica"* (INSTANT) nell'ambito dello *"Scientific Committee on Antarctic Research"* (SCAR), contribuisco a indirizzare la ricerca scientifica dell'organizzazione.

PALSEA | *Co-Leader* **2018 - 2023**

Ho ricoperto il ruolo di co-leader (con altri tre scienziati) del progetto PALSEA (PALeo constraints on SEA level rise), finanziato dalla International Union of Quaternary Sciences (INQUA) e da Past Global Changes (PAGES). Ho diretto le decisioni strategiche sul focus scientifico del progetto, promosso attività per espanderne l'ambito e gestito le domande di finanziamento per le travel grants di giovani ricercatori.

MPA "Cinque Terre" | *Membro del Comitato Scientifico* **06/2021 - Presente**

Come membro del Comitato Scientifico dell'Area Marina Protetta (AMP) *"Cinque Terre"*, contribuisco alla supervisione delle attività scientifiche all'interno dell' AMP e fornisco orientamenti su questioni tecniche e scientifiche relative alla sua gestione.

MEDFLOOD/MOPP | *Co-Leader* **2012 - 2018**

Ho ricoperto il ruolo di co-leader (con altri tre scienziati) dei progetti MEDFLOOD e MOPP, finanziati dalla International Union for Quaternary Science (INQUA) per sostenere workshop annuali e scuole di formazione sullo studio del livello del mare passato nel Mediterraneo. Ho diretto le decisioni strategiche sul focus scientifico del progetto, promosso attività per espanderne l'ambito e gestito le domande di finanziamento per le travel grants di giovani ricercatori.

ORGANIZZAZIONE DI CONFERENZE E WORKSHOPS

Nel corso della mia carriera, ho attivamente organizzato workshops e proposto sessioni per conferenze internazionali. Di seguito è riportato un elenco di conferenze e workshop in cui ho fatto parte del comitato organizzatore, o ho assunto il ruolo di organizzatore di sessioni, moderatore o chair.

Membro del comitato scientifico o organizzatore

2022 PALSEA annual meeting, Singapore.
2021 Webinar series by PALSEA, WCRP (sea level), IAG, and SERCE.
2020 "PALSEA Express" online workshop.
2019 CoChE Summer school. Coastal Changes and Evolution. Oristano (IT).
2019 PALSEA workshop "Using ecological and chronological data to improve proxy-based paleo sea level reconstructions", Dublin (IE).
2017 PALSEA-QUIGS meeting on "Climate, ice sheets and sea level during past interglacial periods". Galloway, New Jersey (USA)
2016 Annual MEDFLOOD workshop, Bremen (DE)
2014 Annual MEDFLOOD workshop, Haifa (IL).
2012 Annual MEDFLOOD workshop, Rome (IT).
2013 Organizer of the bi-weekly seminar at Lamont Doherty Earth Observatory, Biology and Paleo Environment Division

Organizzatore di sessione, convener o session chair

2023 Rome INQUA conference. Session 89: "Cenozoic sea-level indicators and ice sheet constraints to global sea-level change".

2022 PAGES Open Science Meeting. Session: "Last Interglacial".

2019 American Geophysical Union 2019. Session PP23A: "Centennial Session: One Hundred Years of Ice Sheet and Sea Level Science".

2017 GeoBremen conference. Session: "Coastal depositional environments & processes"

2015 American Geophysical Union 2015. Session PP11E: "Sea Levels and Ice Sheets during Past Warm Periods: Looking to the Past to Understand the Future".

ALTRI RUOLI SCIENTIFICI DI RILIEVO

IPCC AR6 | *Contributing author* **2022**

Sono stato *"contributing author"* per il Sesto Rapporto di Valutazione (AR6) dell'Intergovernmental Panel on Climate Change (IPCC), contribuendo ai Capitoli 2 e 9 del Gruppo di lavoro 1. Come contributing author, ho fornito informazioni tecniche, inclusi testi, grafici e dati, per l'integrazione nelle sezioni della bozza.

SEMINARI E CONFERENZE AD INVITO

Oltre alle mie responsabilità didattiche, sono frequentemente invitato a presentare la mia ricerca in seminari universitari e conferenze internazionali. Di seguito, un elenco delle presentazioni più significative che ho tenuto negli anni.

2023 University of Genoa (IT).
2023 QUIGS workshop (Online).
2022 ECORD Summer School 2022 (DE).
2021 Ca' Foscari University of Venice (IT).
2019 PAGES ECN grant-writing workshop, Prague (CZ).
2018 Ca' Foscari University of Venice (IT).
2018 Durham University (UK).
2018 CEREGE, Université Aix-Marseille (FR).
2017 Bonn University (DE).
2017 University of Cambridge (UK).
2017 Université de Bretagne Occidentale, Brest (FR).
2017 University of Genoa (IT).
2016 American Geophysical Union, San Francisco (USA).
2015 LDEO, Columbia University (USA).
2013 University of Bremen (DE).
2012 Rice University, Houston (USA).
2008 Université du Sud Toulon-Var (FR).

RUOLI EDITORIALI

Nel corso della mia carriera, ho ricoperto vari ruoli come editore di riviste scientifiche.

Earth System Science Data | *Editor* **2022 - Presente**

Sono editor per *Earth System Science Data*, una rivista open access pubblicata da Copernicus. La rivista ha un impact factor (2022) di 11.4. In questo ruolo, ho curato 15 manoscritti.

Climate of the Past | *Editor* **2022 - Presente**

Sono editor per *Climate of the Past*, una rivista open access pubblicata da Copernicus. La rivista ha un impact factor (2022) di 4.3. In questo ruolo, ho curato 21 manoscritti.

UAVs in Environmental Sciences | *Editor* **2019 - 2022**

Sono stato uno degli editori del libro di testo open access *"UAVs in Environmental Sciences"*, pubblicato da Wissenschaftliche Buchgesellschaft (WBG).

Earth System Science Data | *Editor di Special Issue* **2019 - 2022**

Sono stato editor per la Special Issue di *Earth System Science Data* intitolata *"The World Atlas of Last Interglacial Shorelines"*.

Quaternary Science Reviews | *Editor di Special Issue* **2017 - 2018**

Sono stato editor per la Special Issue di *Quaternary Science Reviews* intitolata *"Inception of a Global Atlas of Sea Levels since the Last Glacial Maximum"*. Quaternary Science Reviews è una rivista pubblicata da Elsevier e ha un impact factor (2022) di 4.

Alpine and Mediterranean Quaternary | *Editor* **2013 - 2017**

Sono stato editor per *Alpine and Mediterranean Quaternary*, la rivista dell'Associazione Italiana per lo Studio del Quaternario (AIQUA).

Quaternary Perspectives | *Editor* **2013 - 2014**

Sono stato editor per *Quaternary Perspectives*, la newsletter della International Union for Quaternary Sciences (INQUA).

RUOLI DI REVISORE

Nel corso della mia carriera, sono stato revisore di diversi manoscritti e progetti di ricerca.

Varie Riviste | *Revisore di Manoscritti* **Dal 2021**

Ho esaminato circa 70 manoscritti inviati a riviste internazionali, tra cui *Nature*, *Nature Geoscience* e *Nature Communications*.

Varie Agenzie di Finanziamento | *Revisore di Proposte* **Dal 2021**

Ho revisionato proposte di ricerca per diverse agenzie di finanziamento, tra cui la *Swiss Science Foundation*, la *Humboldt Foundation*, l'*Israel Science Foundation*, il *Petroleum Research Fund (American Chemical Society)*, l'Università di Singapore e la *National Geographic Society*.

INCARICHI DI INSEGNAMENTO

Sono stato attivo nell'insegnamento in diverse università, sia in Italia che all'estero. Di seguito un elenco dei corsi che ho tenuto negli anni. Includo le valutazioni complessive dei corsi per tutti i corsi e gli anni per cui sono disponibili.

Università Ca' Foscari Venezia (MSc) | *Processi e rischi geologici costieri*

Questo corso fa parte del programma di laurea magistrale in Scienze Ambientali (GEO/04), curriculum *"Capitale naturale e servizi ecosistemici"*. Offre 6 CFU, per un totale di 48 ore. Il corso è stato tenuto negli anni accademici 2023/2024 e (sotto un nome leggermente diverso ma con gli stessi contenuti) nel 2022/2023.
Valutazioni degli studenti: 2022/2023: 9,55/10 (per lezioni e laboratorio).

Università Ca' Foscari Venezia (BSc) | *Geografia fisica e geomorfologia*

Questo corso fa parte del programma di laurea triennale in Scienze Ambientali (GEO/04). Offre 6 CFU, per un totale di 48 ore. Il corso è stato tenuto negli anni accademici 2023/2024 e (sotto nomi diversi ma con gli stessi contenuti) nel 2022/2023 e 2021/2022 (nel 2021/2022 il corso era di 6 crediti, ma 60 ore).
Valutazioni degli studenti: 2021/2022: 8,88/10 (lezioni) - 8,74/10 (laboratorio) | 2022/2023: 8,40/10 (lezioni) - 8,03/10 (laboratorio).

Universität Bremen (BSc) | *Clastic sedimentology: coastal and shelf dynamics*

Questo era un corso nel programma di laurea triennale in Geoscienze. L'intero corso comprende 2 SWS (ore settimanali per semestre), ed era diviso tra tre insegnanti. Di solito ho tenuto tre lezioni di 2 ore in questo corso, e ho supervisionato parte degli esami. Il corso si è svolto dal 2018 al 2021.

Università degli Studi di Genova (MSc) | *Mobilità didattica ERASMUS*

Nel 2018, ho insegnato 8 ore come parte di uno scambio didattico tra l'Università di Brema e il dipartimento di Ingegneria (DITEN) dell'Università di Genova.

Universität Bremen (Ph.D.) | *Paleo sea level changes*

Ho tenuto un corso di 8 ore intitolato *"Paleo sea level changes: Eustasy, Isostasy, Tectonics"* presso la Bremen International Graduate School for Marine Sciences - GLOMAR. Il corso, sotto titoli leggermente diversi ma con contenuti simili, si è tenuto nel 2018, 2016 e 2014.

Universität Bremen (BSc) | *Geographic Information Systems*

Questo era un corso nel programma di laurea triennale in Geoscienze. L'intero corso comprende 3 SWS (ore settimanali per semestre), e l'ho co-diretto con un altro collega. Il corso si è tenuto nel 2017 e 2020.
Valutazioni degli studenti: 2017: 1,81 ± 0,68 (dove 1= Eccellente e 5 = Insufficiente)

Universität Bremen (BSc) | *Marine Geological Project*

Questo era un corso sul campo tenuto nel 2017 nel programma di laurea triennale in Geoscienze, al quale ho partecipato in co-docenza. Il corso è durato tre giorni, e si è svolto sull'isola di Helgoland (Germania settentrionale).

Universität Bremen (MSc) | *Field course Coastal Changes*

Questo era un corso sul campo che ho diretto nel programma di laurea magistrale in Geoscienze Marine, coordinando altri due docenti. Questo corso di una settimana, tenuto in Italia, era organizzato come studio pratico sul campo e si è svolto nel 2017, 2018 e 2019.
Valutazioni degli studenti: 2018: 1,21 ± 0,43 (dove 1= Eccellente e 5 = Insufficiente)

Universität Bremen (BSc) | *Field course carbonate sedimentology*

Questo era un corso sul campo tenuto nel 2014 nel programma di laurea triennale in Geoscienze, al quale ho partecipato in co-docenza. Il corso è durato cinque giorni, e si è svolto sull'isola di Mallorca (Spagna).

Università degli Studi di Genova | *Lezioni e Seminari*

Durante il mio master e dottorato all'Università di Genova ho contribuito alle attività didattiche nei corsi di master e dottorato con lezioni e seminari ad hoc, elencati di seguito.

2011 Uso dei GIS nella valutazione dei paesaggi costieri e marini (Laurea Magistrale, 6 ore)
2011 Geomorfologia nelle scienze ambientali marine (Dottorato, 6 ore)
2008 Patrimonio geomorfologico nelle Aree Marine Protette (Laurea Magistrale, 2 ore)
2007 Patrimonio geomorfologico nelle Aree Marine Protette (Laurea Magistrale, 2 ore)
2005 Caratterizzazione dei fondali di Arguineguin, Gran Canaria, Spagna (Laurea Triennale, 2 ore)
2005 Contorni geomorfologici e sedimentologici della futura AMP di Bergeggi (Laurea Triennale, 2 ore)
2005 Caratterizzazione dei fondali di Arguineguin, Gran Canaria, Spagna (Laurea Triennale, 2 ore)

SUPERVISIONE DI POSTDOCS

Da quando ho fondato il mio gruppo di ricerca presso l'Università di Brema, ho guidato nove ricercatori post-dottorato. Questo gruppo include sia ricercatori attuali che passati, i quali, dopo aver lasciato il mio team, hanno trovato successo in altre posizioni accademiche o nel settore industriale.

Dr. Ciro Cerrone | *Università Ca' Foscari Venezia* 2023 - Present
Tema di ricerca Variazioni del livello del mare nell'ultimo interglaciale in Sud America, Oceano Atlantico.

Dr. Silas Dean | *Università Ca' Foscari Venezia* 2022 - Present
Tema di ricerca Variazioni del livello del mare nell'ultimo interglaciale nella Costa Est degli Stati Uniti.

Dr. Denovan Chauveau | *Università Ca' Foscari Venezia* 2022 - Present
Tema di ricerca Oscillazioni del livello del mare nell'ultimo interglaciale da modelli stratigrafici di coral reefs.

Dr. Nikos Georgiou | *Università Ca' Foscari Venezia* 2022 - Present
Tema di ricerca Ondazioni estreme nell'ultimo interglaciale e forme costiere associate.

Dr. Patrick Boyden | *Universität Bremen* 2022 - Present
Tema di ricerca Ecologia dei reef fossili nelle isole di Aruba, Curacao e Bonaire.

Dr. Deirdre D. Ryan | *Universität Bremen* 2018-2021
Tema di ricerca Morfologia e datazione delle beach ridges fossili in Patagonia, Argentina.
Posizione attuale Environmental Scientist - San Francisco Bay Regional Water Quality Control Board.

Dr. Evan J. Gowan | *AWI Bremerhaven* 2018-2021
Tema di ricerca Modellizzazione dell'evoluzione di calotte glaciali.
Posizione attuale Kumamoto University and KIKAI Institute for Coral Reef Sciences, Kagoshima, Japan.

Dr. Thomas Lorscheid | *Universität Bremen* 2017-2018
Tema di ricerca *Indicative meaning* di morfologie Quaternarie.
Posizione attuale Geodetic office - Frankfurt Am Main.

Dr. Daniel Harris | *Leibniz ZMT - MARUM* 2014-2016
Tema di ricerca Ondazioni estreme su barriere coralline e loro evoluzione futura.
Posizione attuale Senior Lecturer - University of Queensland.

DOTTORATI DI RICERCA

Ho supervisionato quattro studenti di dottorato fino al completamento del loro percorso.

Karla Rubio Sandoval | *Universität Bremen* 2019-2024
Tesi Drivers of Pleistocene to Holocene sea-level changes in the Southwestern Atlantic.
Posizione attuale In attesa di iniziare post-doc presso la Universidad Nacional Autónoma de México (UNAM).

Patrick Boyden | *Universität Bremen* 2019-2022
Tesi Last interglacial sea level in the western Indian Ocean: multifaceted approach to paleo relative sea level indicator interpretation and analysis.
Posizione attuale Postdoc at Universität Bremen.

Maren Wohltmann Bender | *Universität Bremen* 2016-2020
Tesi Holocene sea-level changes in Southeast Asia.
Posizione attuale State Office GeoInformation Bremen.

Thomas Lorscheid | *Universität Bremen* 2014-2017
Tesi MIS 5e relative sea level indicators : new methodologies to sustain the quantitative estimate of past sea level changes.
Posizione attuale Geodetic office - Frankfurt Am Main.

RESEARCH ASSISTANTS

Ho supervisionato un research assistant (post-laurea), che ha lavorato nel mio gruppo come tecnico ricercatore di supporto alla ricerca.

Alexander Janßen |*Universität Bremen* 2015-2016
Tema di ricerca Supporto alla ricerca su tematiche Geographic Information Systems.
Posizione attuale Software engineer at ORTEC GmbH.

TESI DI LAUREA

Ho supervisionato come relatore o correlatore le tesi di 21 studenti di laurea magistrale (MSc) o triennale (BSc), provenienti da diverse istituzioni europee.

Andrea Osti |*Università Ca' Foscari Venezia* MSc 2024
Relatore. Movimenti verticali del suolo nell'area nord della Laguna di Venezia durante l'Olocene

Enrico Muletto |*Università Ca' Foscari Venezia* BSc 2024
Relatore. Valutazione spostamento di un mega-masso lungo una costa rocciosa sfruttando equazioni idrodinamiche

Matilde Perciballi |*Università Ca' Foscari Venezia* BSc 2023
Relatore. Indagare le potenzialità della Structure from Motion assistita da LiDAR: un caso di studio sul gruppo alpino Civetta Moiazza

Giorgio Stocco |*Università Ca' Foscari Venezia* BSc 2023
Relatore. Mappatura GIS delle beachrocks presenti lungo un tratto di Riviera ligure di Ponente e considerazioni riguardo il loro utilizzo come indicatori della variazione del livello del mare dall'età pre-industriale

Juan Sebastian Garzòn Alvarado |*University of Münster* MSc 2022
Relatore. A methodology to compare sea-level index points and sea-level models

Inès Vejzovic |*Universität Bremen* MSc 2022
Relatore. Evaluating the potential of nearshore Satellite-Derived Bathymetry (SDB) for Moorea Island using various data sets

Dennis Frenke |*Universität Bremen* BSc 2021

Relatore. Reassessment of Pleistocene amino acid racemization ages in the Mediterranean

Anna Rosati |*Università degli Studi di Genova* MSc 2020

Correlatore. Extreme storms in Liguria in present and in future sea level rise conditions

Clayton Soares |*Universität Bremen* MSc 2020

Relatore. Database creation and analysis of subaqueous dune characteristics, Weser estuary

Despo Kyriakoudi |*Universität Bremen* MSc 2020

Relatore. Assessment and modelling of paleo and future tsunami waves: a case study for Ognina, SE Sicily (Italy)

Ann-Kathrin Petersen |*Universität Bremen* BSc 2020

Relatore. Analysis of Last Interglacial virtual outcrops in Curacao, Leeward Antilles

Marco Tack |*Universität Bremen* MSc 2020

Relatore. Last Interglacial reef terraces in Bonaire, Netherlands Antilles

Marc K. Brand |*Universität Bremen* MSc 2019

Relatore. Shoreline changes in Liguria, Italy

Bastian Hirsche |*Universität Bremen* BSc 2018

Relatore. Shoreline changes in the island of Helgoland within one season

Maria Reimer |*Universität Bremen* MSc 2018

Relatore. Last Interglacial sea levels in the Bergeggi marine cave, Italy

Patrick Boyden |*Universität Bremen* MSc 2018

Relatore. Effects of Hurricane Matthew under different sea level scenarios

Jan Drechsel |*Universität Bremen* MSc 2018

Relatore. Drones As Low-Altitude Remote Sensing Tool In Coastal Areas

Carl Grellet–Munoz |*EPHE-CRIOBE-Université de Perpignan* MSc 2016

Correlatore. Involvement of coral shapes in reef structural complexity

Katarina Trstenjak |*Universität Bremen* MSc 2016

Correlatore. Short and medium term coastal changes in Keta (Ghana) – local views and interpretations

Giorgia Russo |*Università degli Studi di Genova* MSc 2010

Correlatore. Maldivian reefs: geomorphological and environmental characteristics

Stefano Bellati |*Università degli Studi di Genova* MSc 2006

Correlatore. Valutazione degli effetti della pesca del dattero di mare (L. lithophaga) sulla tessitura dei clasti al piede della falesia

FINANZIAMENTI PER LA RICERCA COME PI

Come Principal Investigator (PI), ho guidato con successo diversi progetti di ricerca, ottenendo finanziamenti per un totale di **~4,1 milioni di €**. Le mie responsabilità come PI includono tipicamente la stesura delle domande di finanziamento, la gestione dei budget, la supervisione della gestione dei progetti, l'assunzione e il coordinamento del personale. Tutti i progetti elencati sono stati assegnati seguendo valutazioni peer-review da parte di panel di esperti.

ERC Starting Grant | *WARMCOASTS* **2019-2025**

Totale: 2 Milioni di €. European Research Council (ERC) Starting Grant per il progetto "Sea Level and Extreme Waves in the Last Interglacial" (WARMCOASTS). La somma indicata include gli overheads.

DFG | *Frozen in time* **2022-2024**

Totale: ~324 Mila €. Grant della German Science Foundation (DFG) all'interno del Priority Programme "Tropical climate variability and coral reefs" per il progetto: "Frozen in Time: Ecology of paleo reefs". Inizialmente assegnato come PI, ho trasferito il progetto a un co-PI per motivi amministrativi legati alla non trasferibilità del finanziamento verso università non tedesche. Ora sono elencato come co-PI. La somma indicata include gli overheads.

Excellence Initiative | *SLCC Group Core Funding* **2014-2019**

Totale: ~1 Milione €. Finanziamento concesso dall'Università di Brema nell'ambito della Excellence Initiative, finanziata dalla German Science Foundation (DFG) per l'avvio del gruppo di ricerca "Sea Level and Coastal Changes". La somma indicata include il salario del PI.

Leibniz ZMT | *SLCC Group Core Funding* **2014-2019**

Totale: 300 Mila €. Finanziamento concesso dal Leibniz Center for Tropical Marine Research (ZMT) per cofinanziare il gruppo di ricerca "Sea Level and Coastal Changes", per collegare la ricerca con l'Università di Brema.

DFG | *Holocene Sea-Level Changes in SE Asia* **2016-2021**

Totale: ~214 Mila €. Grant della German Science Foundation (DFG) nell'ambito del Priority Programme "Regional Sea Level Change and Society". La somma indicata include gli overheads.

Excellence Cluster | *RECORDER Theme 2* **2019-2021**

Totale: ~171 Mila €. Grant della German Science Foundation (DFG) nel contesto del progetto "MARUM Excellence Cluster". Il finanziamento é stato concesso per il topic "RECORDER Theme 2, Feedbacks in the Earth System". Come collaboratore, ho ricevuto il finanziamento per il lavoro di un dottorando inquadrato nel contesto più ampio del MARUM Cluster of Excellence.

Leibniz ZMT | *From Ground to Sky* **2016-2017**

Totale: 90 Mila €. Finanziamento dal Leibniz Center for Tropical Marine Research (ZMT) Core Budget per il progetto "From Ground to Sky: Bridging Scales in the Study of Coastal Changes Using Satellites, Drones, and Field-Based Measurements".

SeaMap srl | *Progetti di consulenza e Ricerca e sviluppo* **2010-2016**

Totale: ~150 Mila €. Stima dei progetti di ricerca, sviluppo e consulenza che ho supervisionato mentre guidavo lo spin-off universitario SeaMap srl. Questo importo include fondi di avvio ed esclude l'IVA. In questi progetti é incluso il progetto "MIRAMAR: Metodologie Innovative di Rilevamento e Analisi per monitoraggi Marini e costieri" finanziato dal PO CRO European Social Fund, Regione Liguria "Human Capital", in collaborazione con Università degli Studi di Genova e DHI Italia.

FINANZIAMENTI PER LA RICERCA COME CO-PI

Ho partecipato a diversi progetti di ricerca come co-Principal Investigator (Co-PI) o partner esterno. In questo ruolo, contribuisco tipicamente con la mia competenza nella redazione delle proposte di finanziamento e partecipo attivamente alle parti dei progetti rientranti nella mia specializzazione. Tutti i progetti elencati qui sono stati assegnati seguendo processi di peer-review da parte di panel di esperti.

DFG | *Holocene and Anthropocene Sea-Level Records from Indonesia* **2019-2024**

Totale: ~298 Mila €. Finanziamento dalla German Science Foundation (DFG) nell'ambito del Priority Programme "Regional Sea Level Change and Society". PI: Prof. Dr. Hildegard Westphal, Dr. Thomas Mann.

Leibniz ZMT | *FlyBack* **2019-2021**

Totale: ~120 Mila €. External partner nel finanziamento dal Leibniz Center for Tropical Marine Research (ZMT) Core Budget per il progetto "Back and Fore: Flying drones over Backreefs to infer shoreline protection and fish biomass production sustained by barrier reefs (FlyBack)". PI: Dr. Sonia Bejarano.

Helmholtz Exzellenznetzwerks | *POSY* **2018-2020**

Totale: ~400 Mila €. Finanziamento per il progetto Helmholtz Exzellenznetzwerks POSY, "The Polar System and its Effects on the Ocean Floor – Activity 1 - Polar Climate Sensitivity and Response in a Warmer World: Antarctic Ice-Sheet Melting, Sea-Ice and Sea Level Changes". PI: Prof. Dr. Gesine Mollenhauer, Prof. Dr. Ralf Tiedemann, Prof. Dr. Dierk Hebbeln.

Leibniz ZMT | *ZMT PRO* **2016-2017**

Totale: 127 Mila €. Finanziamento dal Leibniz Center for Tropical Marine Research (ZMT) Core Budget per il progetto "ZMT PRO – A ZMT Portal to Explore New Research Opportunities". PI: Prof. Dr. Nils Moosdorf.

UWA | *Research Collaboration Awards* **2015**

Totale: ~14 Mila $(AU). University of Western Australia Research Collaboration Awards. "Paleoshorelines and drowned reefs of WA: predicting future sea–level rise from past sea–level change". PI: Dr. Julien Bourget, Dr. Jody Webster, Dr. Michael O'Leary.

FINANZIAMENTI PER CONFERENZE E WORKSHOPS

Ho avuto un ruolo significativo nell'organizzazione di conferenze e workshop, gestendo direttamente i fondi forniti da varie associazioni e istituzioni. Questi fondi sono stati utilizzati per coprire le spese e supportare la partecipazione di giovani scienziati e scienziati provenienti da paesi a basso reddito o paesi in via di sviluppo.

INQUA and PAGES | *PALSEA* **2018-2022**

Totale: ~45 Mila €. Finanziamenti dalla International Union of Quaternary Sciences (INQUA) e dall'Organizzazione Past Global Changes (PAGES) per i meetings del network PALSEA.

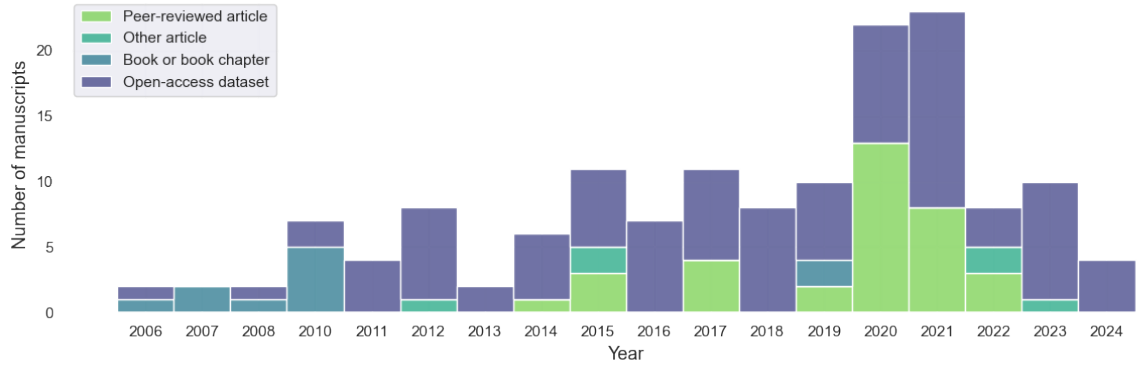
EGU | *CoChe* **2018-2022**

Totale: 5 Mila €. Finanziamento dalla European Geosciences Union per la summer school "Coastal Change and Evolution" (CoChe).

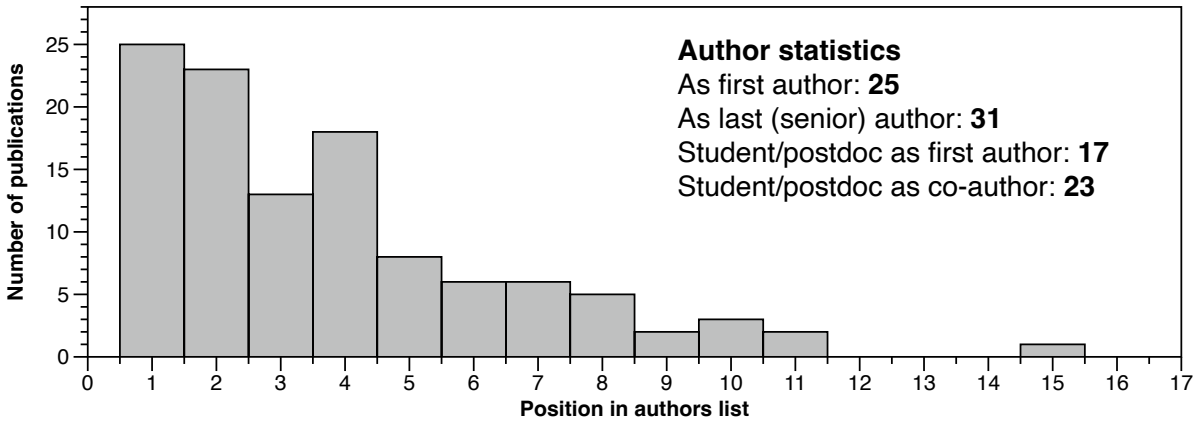
INQUA | *MEDFLOOD and MOPP* **2012-2018**

Totale: ~4 Mila € per anno. Finanziamenti dalla International Union for Quaternary Sciences (INQUA) per i meeting dei progetti "MEDFLOOD" e "MOPP".

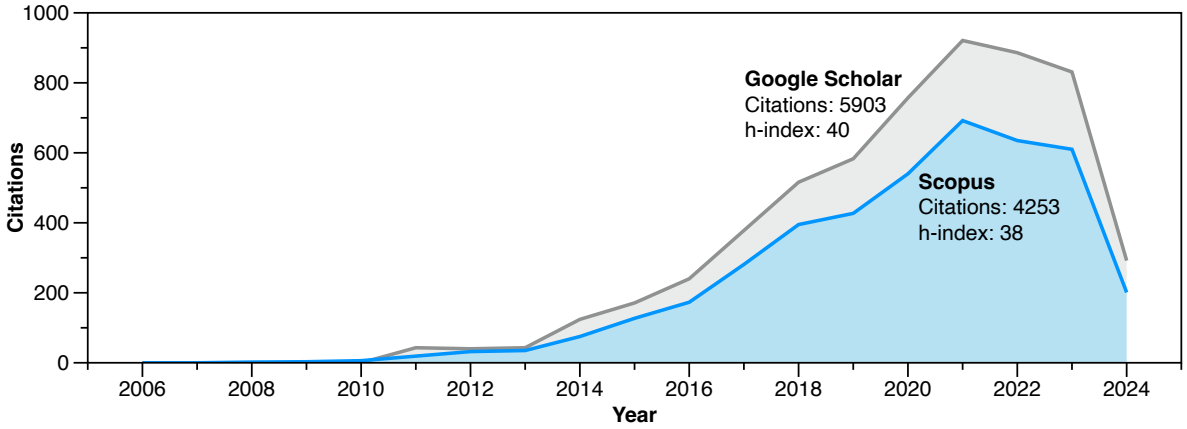
Ho pubblicato **96 articoli** in riviste scientifiche internazionali e **11 articoli** in altri media peer-reviewed. Inoltre, ho contribuito a **6 capitoli di libro e un libro di testo**. Dal 2014, mi sono impegnato nell'*open-access* condividendo i miei dati e codici in repository ad accesso aperto, per un totale di 34 prodotti, e auto-pubblicando le mie presentazioni a conferenze, per un totale di 22 presentazioni. Un elenco completo delle mie pubblicazioni e altri prodotti di ricerca è allegato come appendice a questo CV.



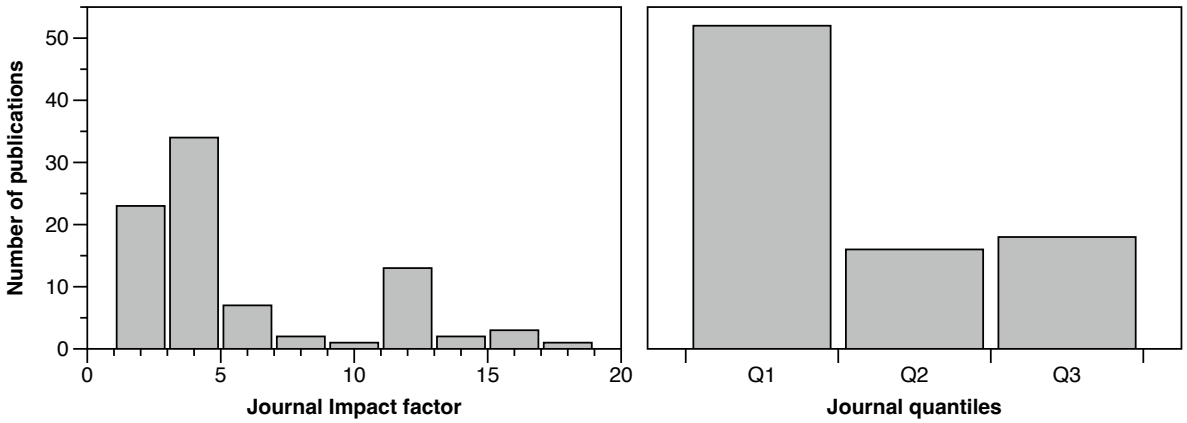
Nella maggior parte delle mie pubblicazioni in riviste internazionali peer-reviewed, sono elencato come **primo o ultimo** (senior) autore, a indicare il mio ruolo principale nella ricerca e nella mentorship relativi a questi progetti. Il mio nome appare in posizione prominente nelle liste degli autori, sottolineando il mio significativo contributo alle pubblicazioni di cui sono co-autore. Molti dei miei lavori presentano **studenti o ricercatori post-dottorato come autori**, evidenziando il mio impegno nello sviluppo della prossima generazione di scienziati.



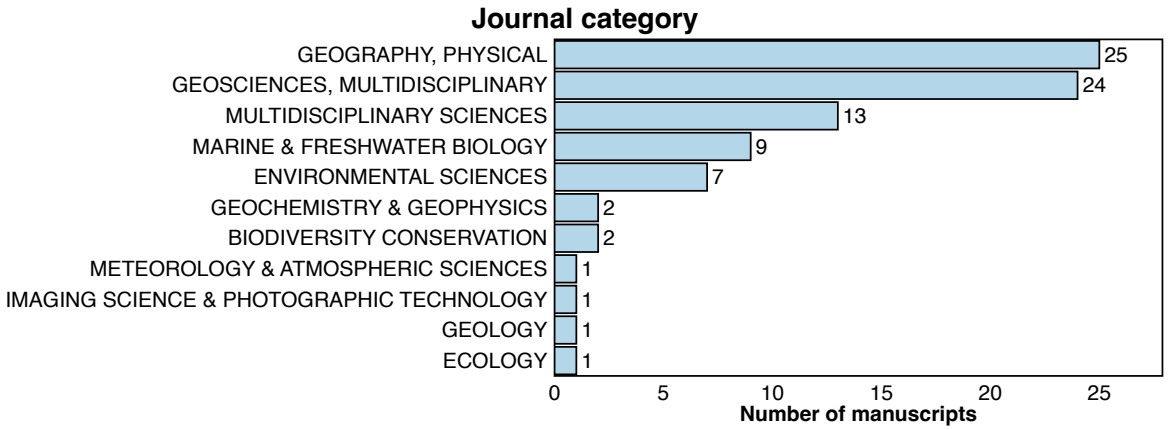
Ho **107 documenti** elencati su Scopus, con **4,253 citazioni** e un **h-index di 38**. Questi indicatori sono leggermente superiori su Google Scholar, in quanto questa piattaforma considera un'ampia gamma di prodotti di ricerca. Su Web of Science, i miei dati sono distribuiti su diversi profili generati automaticamente, il che può influenzare l'accuratezza del conteggio delle citazioni e di altri indicatori.



La maggior parte degli articoli di cui sono autore sono stati pubblicati su riviste **classificate come Q1** dal Journal Citation Reports 2022 (Web of Science), indicando il loro alto impatto e prestigio all'interno della comunità accademica. Il mio output scientifico copre una varietà di riviste, che vanno da pubblicazioni specifiche del settore con impact factor tra 1 e 5, fino a riviste ad alto impatto, con impact factor superiori a 10, secondo il Journal Citation Reports 2022.



Le riviste in cui pubblico si collocano principalmente nelle categorie di **geografia fisica e geoscienze**. Inoltre, ho pubblicato in campi strettamente correlati come l'ecologia e la biologia, o il telerilevamento, dimostrando un ampio coinvolgimento in aree di ricerca interdisciplinari.



Una panoramica dell'impatto delle mie attività di ricerca dal 2013 al 2022 è disponibile su SciVal, una piattaforma sviluppata da Elsevier per l'analisi dei risultati bibliometrici della ricerca. Secondo SciVal, la mia ricerca in questo periodo comprende 74 contributi, che hanno accumulato un totale di 3,493 citazioni. Di seguito sono riportate alcune **statistiche chiave estratte da SciVal per gli anni 2013 al 2022.**

39.2% delle mie pubblicazioni si trovano tra il 10% più citato a livello mondiale.

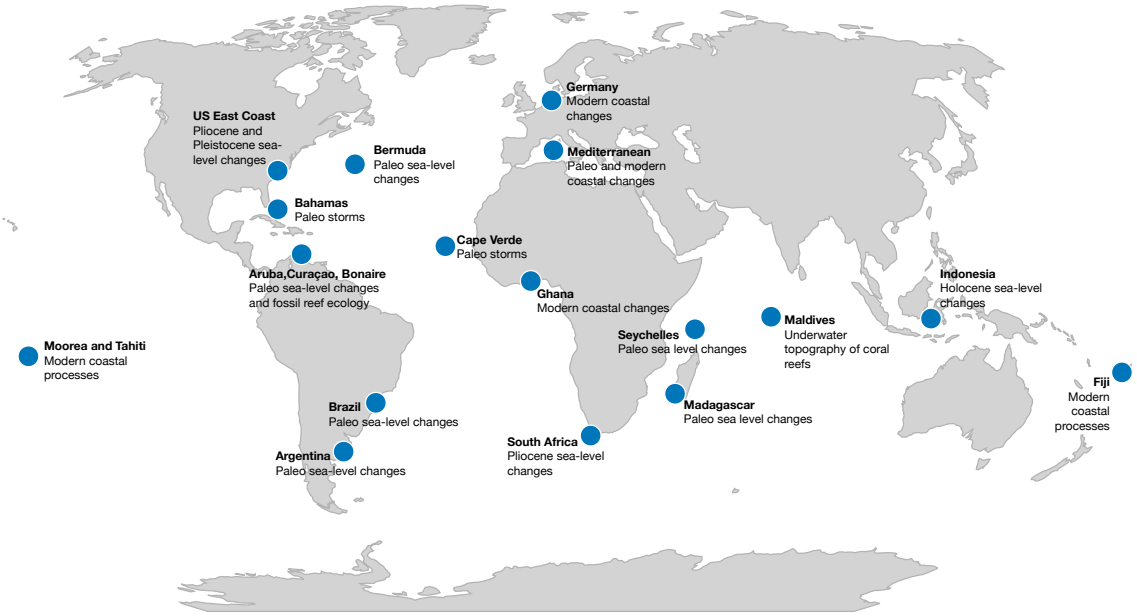
66.7% delle mie pubblicazioni sono classificate nel top 10% delle riviste per CiteScore.

Q1 88.4% delle mie pubblicazioni sono in riviste classificate Q1 da CiteScore, con il resto in riviste Q2.

2.70 è il mio Field-Weighted Citation Impact (FWCI). Questo indicatore mostra che le mie pubblicazioni ricevono il 170% di citazioni in più rispetto alla media globale per lavori simili.

AREE DI RICERCA

La mia ricerca copre una vasta gamma di aree geografiche, con un focus sui cambiamenti costieri e del livello del mare. Indago le dinamiche costiere moderne in Germania e Ghana. In località tropicali come Moorea, Tahiti e Fiji, i miei studi esplorano le interazioni tra i processi costieri moderni e le dinamiche ecologiche delle barriere coralline. Inoltre, esamino le variazioni del livello del mare paleo (dal Olocene al Pliocene) in diverse località come il Mediterraneo, Capo Verde, le Bahamas, Aruba, Curaçao, Bonaire, Madagascar, Bermuda, Argentina, Brasile, Seychelles, Sud Africa e Indonesia. Il mio lavoro include anche lo studio della topografia sottomarina delle barriere coralline nelle Maldive e i cambiamenti del livello del mare passati sulla costa est degli Stati Uniti durante il Pliocene e il Pleistocene. Utilizzo una varietà di metodologie per affrontare le complessità legate allo studio della geomorfologia marina e costiera in questi siti distribuiti a livello globale. Ho guidato spedizioni di ricerca in tutte le località sopra menzionate, supervisionando la logistica, ottenendo i permessi di ricerca e organizzando scientificamente il lavoro di campo in diverse occasioni.



TERZA MISSIONE - RASSEGNA STAMPA

Le mie attività di ricerca hanno ricevuto attenzione da parte di vari mezzi di comunicazione, inclusi giornali, stazioni radio, canali televisivi e siti web. Di seguito, fornisco un riepilogo dei principali servizi giornalistici che hanno trattato il mio lavoro.

2023 "Ancient warning of a rising sea" (Washington Post, Press, International)
2023 "Il livello del mare sta salendo. E le nostre coste sono a rischio" (Domani, Press, National)
2023 "Ambiente, lo studio: "Livello mare nel 2100 fino a un metro in più rispetto a oggi" (Sky Tg 24, Web Press, National)
2023 "Cambiamento climatico e gas serra, nel 2100 il livello del mare può aumentare di un metro: laguna di Venezia sorvegliata speciale" (Il Gazzettino, Web Press, National)
2023 "Il nuovo report sul cambiamento climatico: Il mare invaderà certamente le coste, ma possiamo agire per rallentare il fenomeno" (La Stampa, Press, National)
2023 "Aruba's Bocas: home to the rarest fossil reefs on the planet!" (Aruba today, Web Press, International)
2022 "Se sparisse il ghiaccio dei Poli..." (Focus, Press, National)
2021 "Surprisingly fast ice-melts in past raise fears about sea level rise" (Horizon Magazine, Web Press, National)
2021 "E se il mare del passato fosse stato più basso di quanto crediamo?" (Oggiscienza, Press, National)
2020 "La sfida delle inondazioni, sempre più violente e frequenti" (Le Scienze, Press, National)
2020 "South African seas up to 30m higher show a wet planet under siege" (Daily Maverick, Press, International)
2020 "Sea-level rise projections can improve with state-of-the-art model" (Science Daily, Press, International)
2017 "Ancient storms could have hurled huge boulders, scientists say" (Washington post, Press, International)
2017 "Drohnen liefern detailreiche Einblicke in Korallenriffe" (Der Standard, Press, International)
2017 "Mit Drohnen über dem Korallenriff" (Deutschland Radio, Radio, International)
2017 "Riffe schützen Inseln vor Monsterwellen. Die Welle" (Die Welle, Web press, International)
2017 "Drohnen für die Wissenschaft" (Arte TV, Television, International)
2017 "Mit Drohnen gegen die Korallenbleiche" (Welt, Television, International)
2016 "I droni contro l'erosione delle coste" (Dronezine, Press, National)
2015 "Quatre chercheurs au milieu des surfeurs" (La Depeche de Tahiti, Press, International)
2013 "Il business che spinge la startup é l'ecosistema costiero" (Il Secolo XIX, Press, National)
2013 "How High Could the Tide Go?" (New York Times, Press, International)
2011 "I protagonisti della ricerca scientifica in mare si raccontano" (SubAqua magazine, Press, National)

TERZA MISSIONE - DIVULGAZIONE

Sono attivamente impegnato nella diffusione del mio lavoro scientifico attraverso la creazione di contenuti sui canali di social media, con un particolare interesse per la comunicazione scientifica. Ad esempio, un recente video che illustra la mia competenza prodotto da Ca' Foscari ha ottenuto circa 67.000 visualizzazioni su TikTok e 29.000 su Instagram.

YouTube | *@CoastalScience*

Creo e condivido video che trattano tecniche di campo, sistemi informativi geografici e routine quotidiane di lavoro sul campo. Il mio canale attualmente conta 395 iscritti, e i miei video hanno raggiunto circa 52.000 visualizzazioni, con un tempo di visione totale di quasi 3.000 ore.

Podcast | *Storie di Mare*

Produco e conduco un podcast intitolato "Storie di Mare", che utilizza il racconto per educare gli ascoltatori sui processi costieri e marini. Le mie puntate sono state ascoltate in streaming circa 2.400 volte e sono disponibili su piattaforme come Spotify, YouTube e Amazon Music.

Educazione Ambientale | *Sons of the Ocean*

Collaboro con "Sons of the Ocean", un'organizzazione no-profit dedicata all'educazione ambientale per bambini e giovani in età scolare. Contribuisco con contenuti multimediali, inclusi commenti video per i social media, e tengo presentazioni volte alla divulgazione scientifica.

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Alessio **Rovere**

Curriculum Vitae - English version

alessio.rovere@unive.it

ACADEMIC QUALIFICATIONS

My academic studies took place at the University of Genoa, Italy, renowned for its excellence in marine environmental sciences and geosciences. I won two degree awards, one for my bachelor's thesis and one for my master's thesis. During my Ph.D., I participated in several research stays abroad and earned the *"European Ph.D. Label"*.

Università degli Studi di Genova | *Ph.D. in Marine Sciences* **06/2011**

My Ph.D. research received the recognition *"European Ph.D. label"*. As such, it required at least six months of research abroad, thesis evaluation by two professors from different European countries, the participation of at least one committee member from a European country other than Italy, and the defense of the thesis in an official EU language other than Italian. My main supervisor was Prof. Marco Firpo.

Thesis: *Rocky Coasts in the Ligurian Sea: Morphology, Evolution, and Management Aspects*.

Periods abroad during Ph.D.: University of Western Australia, AU (2010, 1 month); Brunel University, UK (2010, 4 months); University of the Aegean, GR (2010, 17 days); University of the Aegean, GR (2009, 1 month).

Università degli Studi di Genova | *MSc in Marine Environmental Sciences* **07/2006**

I completed a two-year master's degree in Marine Environmental Sciences, during which I received an ERASMUS scholarship. I graduated with a final grade of 110/110. My main supervisors were Prof. Marco Firpo and Prof. Carlo Nike Bianchi.

Thesis: *Cartography and Geomorphology of the Seabed in the Bergeggi Marine Protected Area (SV)* (thesis written in Italian).

ERASMUS Scholarship: Universidad de Las Palmas de Gran Canaria, ES (2004, 3 months, 18 days).

Degree Award: "Premio Parchi Cum Laude", Liguria Region (2010), second prize ex-aequo.

Università degli Studi di Genova | *BSc in Environmental Sciences* **02/2004**

I completed a three-year undergraduate course in Environmental Sciences, graduating with the highest marks, 110/110. I conducted my thesis under the guidance of Prof. Carlo Nike Bianchi.

Thesis: *Geological and Geomorphological Features of the Seabed around Bergeggi Island related to the Establishment of the Marine Protected Area* (thesis written in Italian).

Degree Award: "Prix Alain Vatrican 2003 (RAMOGE, Monaco)" first prize ex-aequo.

ACADEMIC POSITIONS

After completing my Ph.D., my academic career has primarily been international. I spent two years in the United States at Columbia University, which is ranked 17th in the 2024 World University Rankings by THE, followed by eight years at Universität Bremen, recognized as a German *"University of Excellence"*. I returned to Italy in 2021. Since March 2014, just two years and nine months post-Ph.D., I have independently led my own research group.

Università Ca' Foscari Venezia | *Associate Professor* **11/2021 - Present**

As an Associate Professor, my responsibilities encompass teaching, research, and faculty administration. I lead a research group consisting of four postdoctoral researchers. My position at Ca' Foscari was made through a direct appointment following a positive evaluation by the Italian Ministry for University and Research (prot. n. 11888, 4.09.2021), pursuant to Article 1, Paragraph 9 of Law n. 230/2005.

Universität Bremen | *Professor* **04/2020 - 10/2021**

Alongside my role as a *"Research group leader"*, I was granted the title of *"Professor"* in accordance with Article 17 of the Higher Education Act of the State of Bremen.

Universität Bremen | *Research group leader* **03/2019 - 10/2021**

As a tenured *Research group leader* at MARUM (Center for Marine Environmental Sciences), affiliated with the University of Bremen, I led the research group *"Sea Level and Coastal Changes"*. My duties included spearheading research initiatives and teaching at the University of Bremen, with a primary focus on advancing research in coastal geosciences.

Universität Bremen and Leibniz ZMT | *Young Group Leader* **03/2014 - 02/2019**

As a tenure-track *"Young Research Group Leader"* at MARUM (Center for Marine Environmental Sciences) and the Leibniz Centre for Tropical Marine Research (ZMT), I founded and led the research group *"Sea Level and Coastal Changes"*. My role involved establishing leadership in the field, spearheading research initiatives, managing grants and securing funding. I also engaged in teaching activities at the University of Bremen.

Columbia University | *Postdoctoral Researcher* **02/2012 - 02/2014**

As a postdoctoral researcher at the Lamont-Doherty Earth Observatory of Columbia University, I conducted research within the project *"PLIOcene MAXimum sea level (PLIOMAX)"* funded by the US National Science Foundation. I worked under the guidance of Prof. Maureen E. Raymo.

TECHNOLOGICAL TRANSFER

During my Ph.D. at the University of Genoa, I co-founded SeaMap srl, an environmental consulting company, in collaboration with six partners. The company secured initial funding through a consortium started by the University of Genoa (UNITI) and was later recognized as a university spin-off. As the sole administrator, I managed operations until its closure. In 2011, SeaMap received the *"Italy of Innovators"* award from the *"Agency for the Dissemination of Technologies for Innovation - Presidency of the Council of Ministers"*.

SeaMap srl | *Director* **10/2010 - 12/2016**

Serving as the Director (Amministratore Unico), I led both the technical and administrative aspects of commercial projects, managing research and development activities. I was responsible for the management of startup funds and effectively managed around 150,000 euros (excluding VAT) in commercial and research and development projects .

OTHER ACADEMIC POSITIONS

In addition to my principal academic work positions, I have held several appointments as adjunct faculty.

Universität Bremen | *Honorary Professor* **03/2024 - Present**

I have been conferred the title of Honorary Professor by a committee nominated by the University of Bremen. This appointment involves active participation in teaching and collaborative research activities.

MARUM - Universität Bremen | *External Member* **10/2021 - Present**

As an external member at MARUM, I am expected to actively engage in research activities within the designated cluster, dedicating time to project meetings, participating in thesis committees, and fulfilling similar commitments.

LDEO - Columbia University | *Adjunct Research Scientist* **04/2014 - 08/2021**

As an adjunct research scientist at LDEO, my role involved engaging in research activities at the Observatory while maintaining my primary affiliation with another institution.

UNIVERSITY SERVICE

As an Associate Professor at Ca' Foscari University, I have undertaken various responsibilities in overseeing and managing both teaching and research activities.

Università Ca' Foscari Venezia | *Teaching Coordinator* **04/2024 - Present**

As the Coordinator of the educational college, appointed by the DAIS Department Council of Ca' Foscari on 26.03.2024, for Environmental Sciences, I manage the supervision and implementation of the Study Program, including its continuous review. I promote the Quality Assurance process, aligning it with the strategic objectives of the University and the Department, and ensure compliance with the guidelines of ANVUR (National Agency for the Evaluation of the University and Research Systems).

Università Ca' Foscari Venezia | *Ph.D. Program Board* **05/2023 - Present**

I am a member of the Ph.D. Program Board (Collegio di dottorato) for the *"Doctoral of National Interest in Polar Sciences"* at Ca' Foscari University of Venice.

Università Ca' Foscari Venezia | *Ph.D. Program Board* **05/2022 - Present**

I serve on the Ph.D. Program Board (Collegio di dottorato) in *"Polar Sciences"* at Ca' Foscari University of Venice.

Università Ca' Foscari Venezia | *ERASMUS Commission* **12/2022 - Present**

I am a member of the *"Erasmus Commission for Environmental Sciences"* (nominated by the Ca' Foscari DAIS Department Council on 13.12.2022). In this capacity, I assist in overseeing ERASMUS scholarship requests and contribute to the internationalization of our student body.

Università Ca' Foscari Venezia | *ERC Board* **09/2022 - Present**

As a member of the *"Ca' Foscari ERC Board"* (appointed by Ca' Foscari Rector's Decree 815/2022), I evaluate applications and act as a liaison between my Department and Principal Investigators of ERC grants who initially selected a different Italian or foreign institution as their Host Institution but intend to transfer to Ca' Foscari. I actively seek out talented researchers and initiate contact with them.

Università Ca' Foscari Venezia | *ESA Lab* **2022 - Present**

I am a member of the *"ESA Lab@CaFoscari"* Steering Committee (Ca' Foscari and European Space Agency), which promotes, coordinates, and supports research activities, scientific collaborations, teaching initiatives, and scientific events related to space data and related research.

SERVICE FOR RESEARCH ORGANISATIONS

I am an active member of the international scientific community, specializing in paleo sea-level changes and broader coastal processes.

INQUA | *INQUA CMP Commission President* **2023 - Present**

As President of the Coastal and Marine Processes Commission of the International Union for Quaternary Science (INQUA), I guide strategic decisions and oversee funding applications for conferences and workshops.

SCAR-INSTANT | *Steering Committee* **2022 - Present**

As a member of the Steering Committee for the *"Instabilities and Thresholds in Antarctica"* (INSTANT) project under the *"Scientific Committee on Antarctic Research"* (SCAR), I contribute to steering decisions on scientific directions and serve in an advisory role.

PALSEA | *Co-Leader* **2018 - 2023**

I served as co-leader (with three other scientists) of the PALSEA (PALeo constraints on SEA level rise) project, funded by the International Union of Quaternary Sciences (INQUA) and Past Global Changes (PAGES). I directed strategic decisions on the project's scientific focus, promoted activities to expand its scope, and handled travel funding applications from early career researchers.

MPA "Cinque Terre" | *Scientific Committee Member* **06/2021 - Present**

As a member of the Scientific Committee of the Marine Protected Area (MPA) *"Cinque Terre"*, I contribute to overseeing scientific activities within the MPA and provide guidance on technical and scientific issues related to its management.

MEDFLOOD/MOPP | *Co-Leader* **2012 - 2018**

I served as co-leader (with three other scientists) of the MEDFLOOD and MOPP projects, funded by the International Union for Quaternary Science (INQUA) to support yearly workshops and training schools on Mediterranean sea-level science. I directed strategic decisions on the project's scientific focus, promoted activities to expand its scope, and handled travel funding applications from early career researchers.

SCIENTIFIC COMMITTEES OF CONFERENCES

Throughout my career, I have actively organized meetings and proposed sessions for international conferences. Below is a list of conferences and workshops where I served on the organizing committee, or took on the role of session organizer, convener, or chair.

Member of scientific and organisation committees

2022 PALSEA annual meeting, Singapore.
2021 Webinar series by PALSEA, WCRP (sea level), IAG, and SERCE.
2020 "PALSEA Express" online workshop.
2019 CoChE Summer school. Coastal Changes and Evolution. Oristano (IT).
2019 PALSEA workshop "Using ecological and chronological data to improve proxy-based paleo sea level reconstructions", Dublin (IE).
2017 PALSEA-QUIGS meeting on "Climate, ice sheets and sea level during past interglacial periods". Galloway, New Jersey (USA)
2012 Annual MEDFLOOD workshop, Rome (IT).
2014 Annual MEDFLOOD workshop, Haifa (IL).
2016 Annual MEDFLOOD workshop, Bremen (DE)
2013 Organizer of the bi-weekly seminar at Lamont Doherty Earth Observatory, Biology and Paleo Environment Division

Session organiser, convener or chair

2023 Rome INQUA conference. Session 89: "Cenozoic sea-level indicators and ice sheet constraints to global sea-level change".

2022 PAGES Open Science Meeting. Session: "Last Interglacial".

2019 American Geophysical Union 2019. Session PP23A: "Centennial Session: One Hundred Years of Ice Sheet and Sea Level Science".

2017 GeoBremen conference. Session: "Coastal depositional environments & processes"

2015 American Geophysical Union 2015. Session PP11E: "Sea Levels and Ice Sheets during Past Warm Periods: Looking to the Past to Understand the Future".

OTHER RELEVANT SCIENTIFIC ROLES

IPCC AR6 | *Contributing Author* **2022**

I was a contributing author for the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6), contributing to Chapters 2 and 9 of Working Group 1. As a contributing author, I provided technical information, including text, graphs, and data, for integration into the draft sections.

INVITED SEMINARS AND TALKS

In addition to my teaching responsibilities, I am frequently invited to present my research at university seminars and international conferences. Below is a list of the most significant talks I have given over the years.

2023 University of Genoa (IT).
2023 QUIGS workshop (Online).
2022 ECORD Summer School 2022 (DE).
2021 Ca' Foscari University of Venice (IT).
2019 PAGES ECN grant-writing workshop, Prague (CZ).
2018 Ca' Foscari University of Venice (IT).
2018 Durham University (UK).
2018 CEREGE, Université Aix-Marseille (FR).
2017 Bonn University (DE).
2017 University of Cambridge (UK).
2017 Université de Bretagne Occidentale, Brest (FR).
2017 University of Genoa (IT).
2016 American Geophysical Union, San Francisco (USA).
2015 LDEO, Columbia University (USA).
2013 University of Bremen (DE).
2012 Rice University, Houston (USA).
2008 Université du Sud Toulon-Var (FR).

EDITORIAL ROLES

Throughout my career, I have served in various editorial roles.

Earth System Science Data | *Editor* **2022 - Present**

I serve as an editor for *Earth System Science Data*, an open-access journal published by Copernicus. The journal has a 2022 impact factor of 11.4. In this role, I have edited 15 manuscripts.

Climate of the Past | *Editor* **2022 - Present**

I serve as an editor for *Climate of the Past*, an open-access journal published by Copernicus. The journal has a 2022 impact factor of 4.3. In this role, I have edited 21 manuscripts.

UAVs in Environmental Sciences | *Book Editor* **2019 - 2022**

I was one of the editors for the open-access textbook *"UAVs in Environmental Sciences"*, published by Wissenschaftliche Buchgesellschaft (WBG).

Earth System Science Data | *Special Issue Editor* **2019 - 2022**

I was an editor for the *Earth System Science Data* Special Issue titled *"The World Atlas of Last Interglacial Shorelines"*.

Quaternary Science Reviews | *Special Issue Editor* **2017 - 2018**

I was an editor for the *Quaternary Science Reviews* Special Issue titled *"Inception of a Global Atlas of Sea Levels since the Last Glacial Maximum"*. Quaternary Science Reviews is a journal published by Elsevier and has a 2022 impact factor of 4.

Alpine and Mediterranean Quaternary | *Editor* **2013 - 2017**

I was an editor for *Alpine and Mediterranean Quaternary*, the journal of the Italian Association for Quaternary Studies (AIQUA).

Quaternary Perspectives | *Editor* **2013 - 2014**

I was an editor for *Quaternary Perspectives*, the newsletter of INQUA, the International Union for Quaternary Sciences.

REVIEWER ROLES

Throughout my career, I have served as a reviewer for several manuscripts and proposals.

Various Journals | *Manuscript Reviewer* **Since 2021**

I have reviewed nearly 70 manuscripts submitted to international journals, including *Nature*, *Nature Geoscience*, and *Nature Communications*.

Various Funding Agencies | *Proposal Reviewer* **Since 2021**

I have reviewed research proposals for various funding agencies, including the *Swiss Science Foundation*, *Humboldt Foundation*, *Israel Science Foundation*, *The Petroleum Research Fund (American Chemical Society)*, University of Singapore, and *National Geographic Society*.

TEACHING

I have been active in teaching at several universities, both in Italy and abroad. Hereafter, a list of the courses I gave over the years. I include overall course evaluations for all courses and years for which they are available.

Università Ca' Foscari Venezia (MSc) | *Coastal geological processes and risks*

This course is part of the MSc program in Environmental Sciences, curriculum *"Natural capital and ecosystem services"*. It offers 6 ECTS credits, amounting to a total of 48 hours. The course was taught in the academic years 2023/2024 and (under a slightly different name but with the same content) in 2022/2023.
Students evaluations: 2022/2023: 9.55/10 (for both lectures and laboratory).

Università Ca' Foscari Venezia (BSc) | *Physical geography and geomorphology*

This course is part of the BSc program in Environmental Sciences (Subject: GEO/04). It offers 6 ECTS credits, amounting to a total of 48 hours. The course was taught in the academic years 2023/2024 and (under different names but with the same content) in 2022/2023 and 2021/2022 (this year the course was 6 credits, but 60 hours).
Students evaluations: 2021/2022: 8.88/10 (lectures) - 8.74/10 (laboratory) | 2022/2023: 8.40/10 (lectures) - 8.03/10 (laboratory).

Universität Bremen (BSc) | *Clastic sedimentology: coastal and shelf dynamics*

This was a course in the BSc program in Geosciences. The entire course is 2 SWS (Semesterwochenstunden), and was split between three teachers. I usually taught three 2-hour lectures in this course, and supervised part of the exams. The course was held from 2018 to 2021.

Università degli Studi di Genova (MSc) | *ERASMUS teaching mobility*

In 2018, I taught 8 hours as part of a teaching exchange between the University of Bremen and the Engineering department (DITEN) at the University of Genoa.

Universität Bremen (Ph.D.) | *Paleo sea level changes*

I taught an 8-hour course titled "Paleo Sea Level Changes: Eustasy, Tectonics, Isostasy" at the Bremen International Graduate School for Marine Sciences - GLOMAR. The course, under slightly different titles but with similar content, was held in 2018, 2016, and 2014.

Universität Bremen (BSc) | *Geographic Information Systems*

This was a course in the BSc program in Geosciences. The entire course is 3 SWS (Semesterwochenstunden), and I co-led the course with another colleague. The course was held in 2017 and 2020. **Students evaluations**: 2017: 1.81 ± 0.68 (where 1= Very good and 5 = Insufficient)

Universität Bremen (BSc) | *Marine Geological Project*

This was a field course held in 2017 within the BSc program in Geosciences, to which I participated as assistant teacher. The course lasted three days, and was held on the island of Helgoland (Northern Germany).

Universität Bremen (MSc) | *Field course Coastal Changes*

This was a field course I led in the MSc program in Marine Geosciences, coordinating two other instructors. This one-week course, held in Italy, was organised as a practical field study and took place in 2017, 2018, and 2019. **Students evaluations**: 2018: 1.21 ± 0.43 (where 1= Very good and 5 = Insufficient)

Universität Bremen (BSc) | *Field course carbonate sedimentology*

This was a field course held in 2014 within the BSc program in Geosciences, to which I participated as assistant teacher. The course lasted five days, and was held on the island of Mallorca (Spain).

Università degli Studi di Genova | *Seminars as teaching assistant*

During my masters and Ph.D. at the University of Genoa, I contributed to teaching activities within master and Ph.D. courses. These are listed below.

2011 Use of GIS in the assessment of coastal and marine landscapes (MSc, 6 hours)
2011 Geomorphology in marine environmental sciences (Ph.D, 6 hours)
2008 Geomorphological heritage in Marine Protected Areas (MSc, 2 hours)
2007 Geomorphological heritage in Marine Protected Areas (MSc, 2 hours)
2005 Seafloor characterisation of Arguineguin, Gran Canary, Spain (BSc, 2 hours)
2005 Geomorphological and sedimentological outlines of the future MPA of Bergeggi (BSc, 2 hours)
2005 Seafloor characterisation of Arguineguin, Gran Canary, Spain (BSc, 2 hours)

MENTORING OF POSTDOCTORAL RESEARCHERS

Since establishing my own research group at the University of Bremen, I have mentored nine postdoctoral researchers. This group includes both current and former researchers who, upon leaving my team, have successfully transitioned to other academic positions or into industry roles.

Dr. Ciro Cerrone | *Università Ca' Foscari Venezia* 2023 - Present
Research Topic Last Interglacial sea level changes in South America, Atlantic Ocean.

Dr. Silas Dean | *Università Ca' Foscari Venezia* 2022 - Present
Research Topic Last Interglacial sea level changes on the US East Coast.

Dr. Denovan Chauveau | *Università Ca' Foscari Venezia* 2022 - Present
Research Topic Last-Interglacial sea-level oscillations from stratigraphic forward models on coral reefs.

Dr. Nikos Georgiou | *Università Ca' Foscari Venezia* 2022 - Present
Research Topic Extreme waves in the Last Interglacial and associated coastal landforms.

Dr. Patrick Boyden | *Universität Bremen* 2022 - Present
Research Topic Ecology of fossil reefs on Aruba, Curacao and Bonaire.

Dr. Deirdre D. Ryan | *Universität Bremen* 2018-2021
Research Topic Morphology and dating of fossil beach ridges in Patagonia, Argentina.
Current position Environmental Scientist - San Francisco Bay Regional Water Quality Control Board.

Dr. Evan J. Gowan | *AWI Bremerhaven* 2018-2021
Research Topic Ice sheet modelling.
Current position Kumamoto University and KIKAI Institute for Coral Reef Sciences, Kagoshima, Japan.

Dr. Thomas Lorscheid | *Universität Bremen* 2017-2018
Research Topic *Indicative meaning* of Quaternary coastal landforms.
Current position Geodetic office - Frankfurt Am Main.

Dr. Daniel Harris | *Leibniz ZMT - MARUM* 2014-2016
Research Topic Extreme waves on coral reefs and their future evolution.
Current position Senior Lecturer - University of Queensland.

PHD STUDENTS SUPERVISED

I supervised four doctoral students until the completion of their thesis.

Karla Rubio Sandoval | *Universität Bremen* 2019-2024
Thesis Drivers of Pleistocene to Holocene sea-level changes in the Southwestern Atlantic.
Current position Will start a postdoc at the Universidad Nacional Autónoma de México (UNAM).

Patrick Boyden | *Università Bremen* 2019-2022

Thesis Last interglacial sea level in the western Indian Ocean: multifaceted approach to paleo relative sea level indicator interpretation and analysis.

Current position Postdoc at Università Bremen.

Maren Wohltmann Bender | *Università Bremen* 2016-2020

Thesis Holocene sea-level changes in Southeast Asia.

Current position State Office GeoInformation Bremen.

Thomas Lorscheid | *Università Bremen* 2014-2017

Thesis MIS 5e relative sea level indicators : new methodologies to sustain the quantitative estimate of past sea level changes.

Current position Geodetic office - Frankfurt Am Main.

RESEARCH ASSISTANTS

I supervised a research assistant (post-MSc) who worked in my group as researcher giving technical support.

Alexander Janßen |*Università Bremen* 2015-2016

Activity Technical support to research activities, mostly through Geographic Information Systems.

Current position Software engineer at ORTEC GmbH.

BSC AND MSC THESES SUPERVISED

I supervised as main or co-supervisor 21 BSc or MSc students from different European Universities.

Andrea Osti |*Università Ca' Foscari Venezia* MSc 2024

Supervisor. Movimenti verticali del suolo nell'area nord della Laguna di Venezia durante l'Olocene

Enrico Muletto |*Università Ca' Foscari Venezia* BSc 2024

Supervisor. Valutazione spostamento di un mega-masso lungo una costa rocciosa sfruttando equazioni idrodinamiche

Matilde Perciballi |*Università Ca' Foscari Venezia* BSc 2023

Supervisor. Indagare le potenzialità della Structure from Motion assistita da LiDAR: un caso di studio sul gruppo alpino Civetta Moiazza

Giorgio Stocco |*Università Ca' Foscari Venezia* BSc 2023

Supervisor. Mappatura GIS delle beachrocks presenti lungo un tratto di Riviera ligure di Ponente e considerazioni riguardo il loro utilizzo come indicatori della variazione del livello del mare dall'età pre-industriale

Juan Sebastian Garzòn Alvarado |*University of Münster* MSc 2022

Supervisor. A methodology to compare sea-level index points and sea-level models

Inès Vejzovic |*Università Bremen* MSc 2022

Supervisor. Evaluating the potential of nearshore Satellite-Derived Bathymetry (SDB) for Moorea Island using various data sets

Dennis Frenke |*Università Bremen* BSc 2021

Supervisor. Reassessment of Pleistocene amino acid racemization ages in the Mediterranean

Anna Rosati |*Università degli Studi di Genova* MSc 2020

Co-Supervisor. Extreme storms in Liguria in present and in future sea level rise conditions

Clayton Soares |*Università Bremen* MSc 2020

Supervisor. Database creation and analysis of subaqueous dune characteristics, Weser estuary

Despo Kyriakoudi |*Universität Bremen* MSc 2020

Supervisor. Assessment and modelling of paleo and future tsunami waves: a case study for Ognina, SE Sicily (Italy)

Ann-Kathrin Petersen |*Universität Bremen* BSc 2020

Supervisor. Analysis of Last Interglacial virtual outcrops in Curacao, Leeward Antilles

Marco Tack |*Universität Bremen* MSc 2020

Supervisor. Last Interglacial reef terraces in Bonaire, Netherlands Antilles

Marc K. Brand |*Universität Bremen* MSc 2019

Supervisor. Shoreline changes in Liguria, Italy

Bastian Hirsche |*Universität Bremen* BSc 2018

Supervisor. Shoreline changes in the island of Helgoland within one season

Maria Reimer |*Universität Bremen* MSc 2018

Supervisor. Last Interglacial sea levels in the Bergeggi marine cave, Italy

Patrick Boyden |*Universität Bremen* MSc 2018

Supervisor. Effects of Hurricane Matthew under different sea level scenarios

Jan Drechsel |*Universität Bremen* MSc 2018

Supervisor. Drones As Low-Altitude Remote Sensing Tool In Coastal Areas

Carl Grellet–Munoz |*EPHE-CRIOBE-Université de Perpignan* MSc 2016

Co-Supervisor. Involvement of coral shapes in reef structural complexity

Katarina Trstenjak |*Universität Bremen* MSc 2016

Co-Supervisor. Short and medium term coastal changes in Keta (Ghana) – local views and interpretations

Giorgia Russo |*Università degli Studi di Genova* MSc 2010

Co-Supervisor. Maldivian reefs: geomorphological and environmental characteristics

Stefano Bellati |*Università degli Studi di Genova* MSc 2006

Co-Supervisor. Valutazione degli effetti della pesca del dattero di mare (L. lithophaga) sulla tessitura dei clasti al piede della falesia

RESEARCH FUNDING LED AS PI

As Principal Investigator (PI), I have successfully led several research projects, securing a total of **~4.2 million €** in funding. My responsibilities as PI typically include writing grant applications, managing budgets, overseeing project management, and personnel hiring. All projects listed here were awarded following rigorous peer-review evaluations by expert panels.

ERC Starting Grant | *WARMCOASTS* **2019-2025**

Amount: 2 Million €. European Research Council (ERC) Starting Grant for the project "Sea Level and Extreme Waves in the Last Interglacial" (WARMCOASTS). The amount indicated includes indirect costs.

DFG | *Frozen in time* **2022-2024**

Amount: ~324 Thousand €. Grant from the German Science Foundation (DFG) under the Priority Programme "Tropical climate variability and coral reefs", for the project "Frozen in time: ecology of paleo reefs". Initially awarded as PI, I transferred this project to a co-PI due to administrative reasons related to grant portability restrictions to non-German universities. I am now serving as co-PI. The amount indicated includes indirect costs.

Excellence Initiative | *SLCC Group Core Funding* **2014-2019**

Amount: ~1 Million €. Funding awarded by the University of Bremen in the framework of the Excellence Initiative, funded by the German Science Foundation (DFG) for establishing the research group "Sea Level and Coastal Changes". The total amount includes the salary of the PI.

Leibniz ZMT | *SLCC Group Core Funding* **2014-2019**

Amount: 300 Thousand €. Funding awarded by the Leibniz Center for Tropical Marine Research (ZMT) to cofinance the "Sea Level and Coastal Changes", bridging research with the University of Bremen.

DFG | *Holocene Sea-Level Changes in SE Asia* **2016-2021**

Amount: ~214 Thousand €. Grant by the German Science Foundation (DFG) under the Priority Programme "Regional Sea Level Change and Society". The amount indicated includes indirect costs.

Excellence Cluster | *RECORDER Theme 2* **2019-2021**

Amount: ~171 Thousand €. Grant by the German Science Foundation (DFG) grant within the project "MARUM Excellence Cluster". Funding for the topic "RECORDER Theme 2, Feedbacks in the Earth System". Within this large project, I received funding for one Ph.D. student's work within the broader MARUM Cluster of Excellence.

Leibniz ZMT | *From Ground to Sky* **2016-2017**

Amount: ~90 Thousand €. Funding from the Leibniz Center for Tropical Marine Research (ZMT) Core Budget for the project "From Ground to Sky: Bridging Scales in the Study of Coastal Changes Using Satellites, Drones, and Field-Based Measurements"

SeaMap srl | *Consulting Projects* **2010-2016**

Amount: ~150 Thousand €. Estimated total for research, development, and consulting projects I supervised while leading the university spinoff SeaMap srl. This total includes startup funds and excludes VAT. This amount includes the funding from the PO CRO European Social Fund, Regione Liguria "Human Capital" (Genova) for the project "MIRAMAR: Metodologie Innovative di Rilevamento e Analisi per monitoraggi Marini e costieri". Collaboration between the University of Genoa, SeaMap srl and DHI Italia.

RESEARCH PROJECTS CONTRIBUTED AS CO-PI

I have participated in several research projects as co-Principal Investigator (Co-PI). Within this role, I typically contribute expertise in the writing of grant proposals and actively engage in the sections of the projects under my specialization. All projects listed here were awarded following peer-review processes by expert panels.

DFG | *Holocene and Anthropocene Sea-Level Records from Indonesia* **2019-2024**

Amount: ~298 Thousand €. Grant by the German Science Foundation (DFG) under the Priority Programme "Regional Sea Level Change and Society". The total funding includes indirect costs. Lead PIs: Prof. Dr. Hildegard Westphal, Dr. Thomas Mann.

Leibniz ZMT | *FlyBack* **2019-2021**

Amount: ~120 Thousand €. External partner in the funding from the Leibniz Center for Tropical Marine Research (ZMT) Core Budget for the project "Back and Fore: Flying drones over Backreefs to infer shoreline protection and fish biomass production sustained by barrier reefs (FlyBack)". Lead PI: Dr. Sonia Bejarano.

Helmholtz Exzellenznetzwerks | *POSY* **2018-2020**

Amount: ~400 Thousand €. Funding for the Helmholtz Exzellenznetzwerks POSY project, "The Polar System and its Effects on the Ocean Floor – Activity 1 - Polar Climate Sensitivity and Response in a Warmer World: Antarctic Ice-Sheet Melting, Sea-Ice and Sea Level Changes". Lead PIs: Prof. Dr. Gesine Mollenhauer, Prof. Dr. Ralf Tiedemann, Prof. Dr. Dierk Hebbeln.

Leibniz ZMT | *ZMT PRO* **2016-2017**

Amount: 127 Thousand €. Funding from the Leibniz Center for Tropical Marine Research (ZMT) Core Budget for the project "ZMT PRO – A ZMT Portal to Explore New Research Opportunities". Lead PI: Prof. Dr. Nils Moosdorf.

UWA | *Research Collaboration Awards* **2015**

Amount: ~14 Thousand $(AU). University of Western Australia Research Collaboration Awards. "Paleoshorelines and drowned reefs of WA: predicting future sea–level rise from past sea–level change". Lead PIs: Dr. Julien Bourget, Dr. Jody Webster, Dr. Michael O'Leary.

FUNDS FOR CONFERENCES AND WORKSHOPS

I have played a significant role in organizing conferences and workshops, directly managing funds provided by various associations and institutions to cover expenses and support the participation of young scientists and scientists from low-income or developing countries. I have contributed to grant writing and the management of funds.

INQUA and PAGES | *PALSEA* **2018-2022**

Amount: ~45 Thousand €. Funding awarded by the International Union of Quaternary Sciences (INQUA) and Past Global Changes (PAGES) for meetings of the PALSEA network.

EGU | *CoChe* **2018-2022**

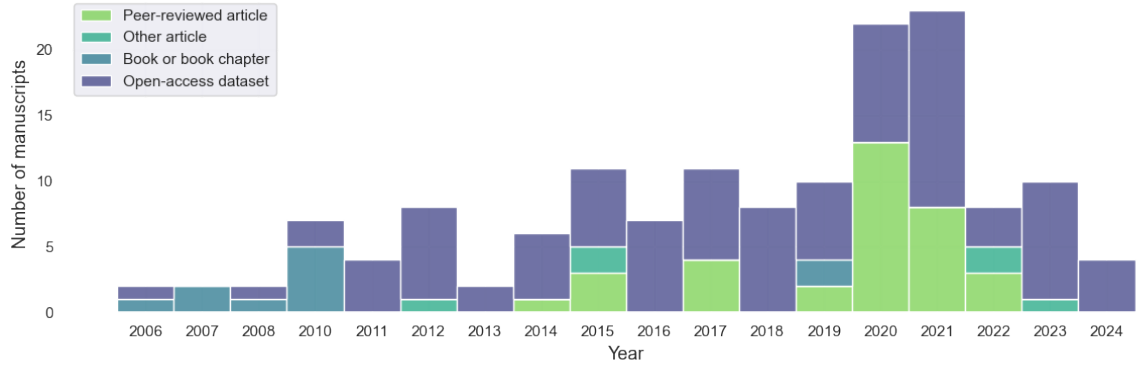
Amount: 5 Thousand €. Funding awarded by the European Geosciences Union for the "Coastal Change and Evolution" (CoChe) training school.

INQUA | *MEDFLOOD and MOPP* **2012-2018**

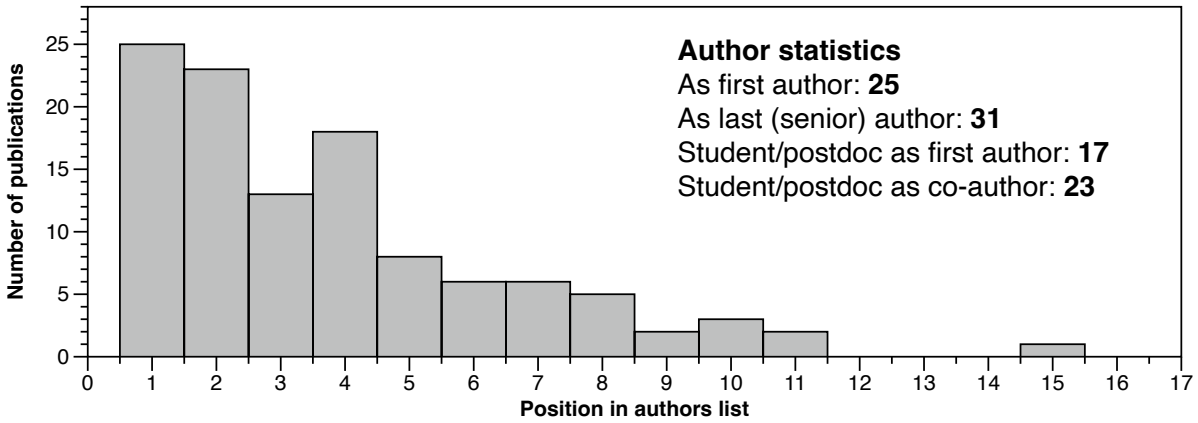
Amount: ~4 Thousand € per year. Funding awarded by the International Union for Quaternary Sciences for the "MEDFLOOD" and "MOPP" working groups.

SCIENTIFIC PRODUCTION AND CITATION METRICS

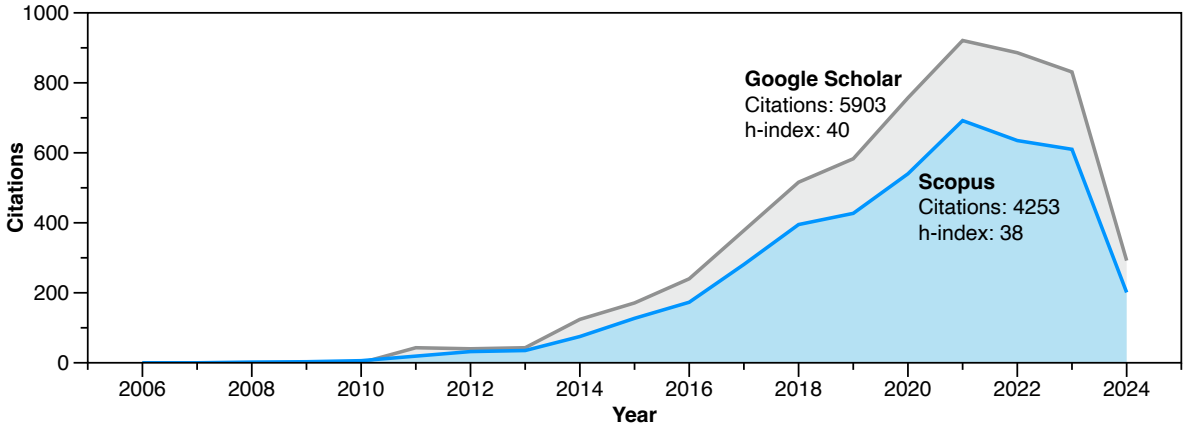
I have authored **96 papers** in international scientific journals and **11 articles** in other peer-reviewed media. Additionally, I have contributed to **6 book chapters and books**. Since 2014, I have committed to open science by sharing my data and code in open-access repositories, totaling 34 products, and by self-publishing my conference presentations, amounting to 22 presentations. A comprehensive list of my publications and other research outputs is attached as an annex to this CV.



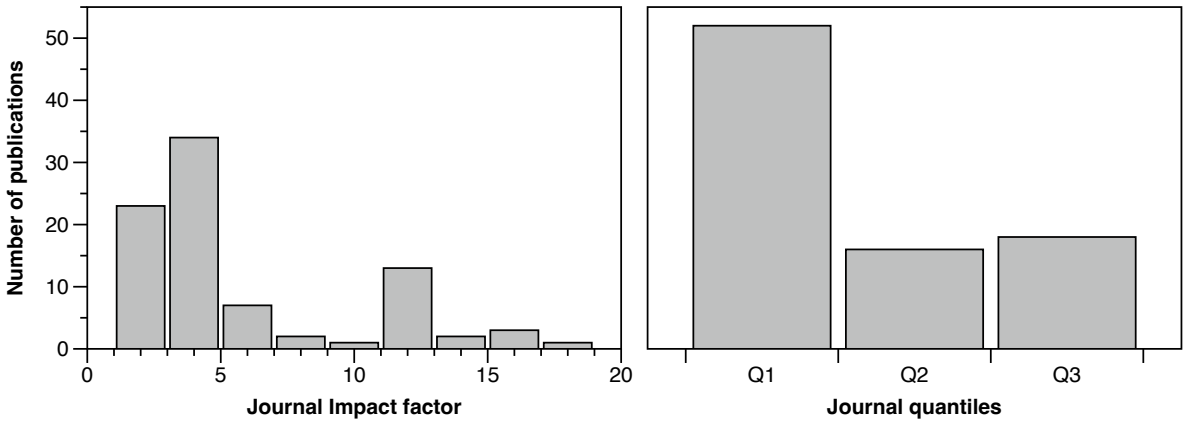
In the majority of my publications in peer-reviewed international journals, I am listed either as the **first or last** (senior) author, indicating my primary role in the research and mentorship within these projects. My name is prominently positioned on the author lists, underscoring my substantial contributions. Many papers were **led or co-authored by students or postdoctoral researchers** whom I have mentored, highlighting my commitment to developing the next generation of scientists.



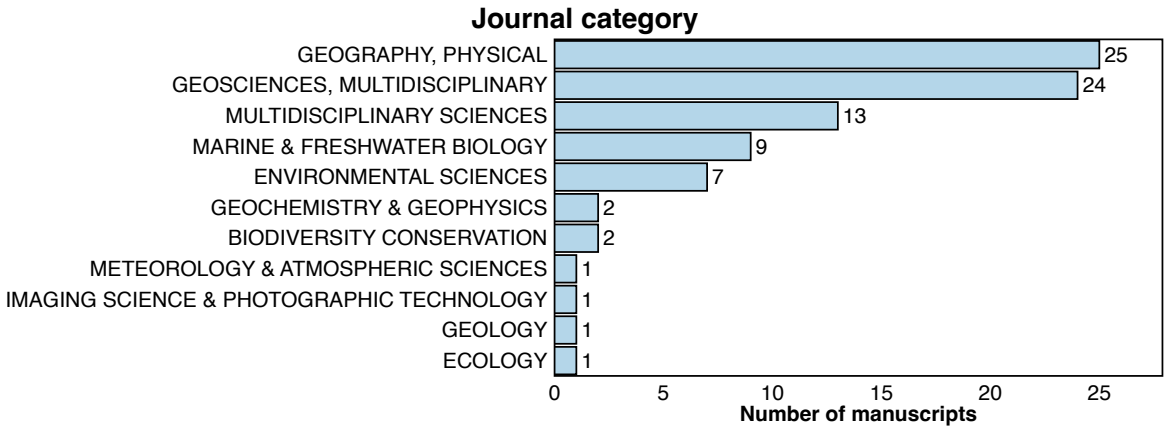
I have **107 documents** listed on Scopus, accruing **4,253 citations** with an **h-index of 38**. These metrics are somewhat higher on Google Scholar, which accounts for a broader array of research products. On Web of Science, my metrics are dispersed across several automatically generated profiles, potentially affecting the precision of citation counts and other indicators.



Most of the papers I have co-authored were published in journals **classified as Q1** by the Journal Citation Reports 2022 (Web of Science), indicating their high impact and prestige within the academic community. My scientific output spans a variety of journals, ranging from sector-specific publications with impact factors between 1 and 5, to **high-impact journals featuring impact factors greater than 10**, according to the Journal Citation Reports 2022.



The journals in which I publish primarily fall within the categories of **physical geography and geosciences**. Additionally, I have published in closely related fields such as ecology and biology, or remote sensing, demonstrating a broad engagement with interdisciplinary research areas.



An overview of the impact of my research activities from 2013 to 2022 is available from SciVal, a platform developed by Elsevier for analyzing bibliometric research output. According to SciVal, my research during this period encompasses 74 outputs, which have accumulated a total of 3,493 citations. Below are some **key statistics extracted from SciVal for the years 2013 to 2022.**

39.2% of my publications are within the top 10% most cited worldwide.

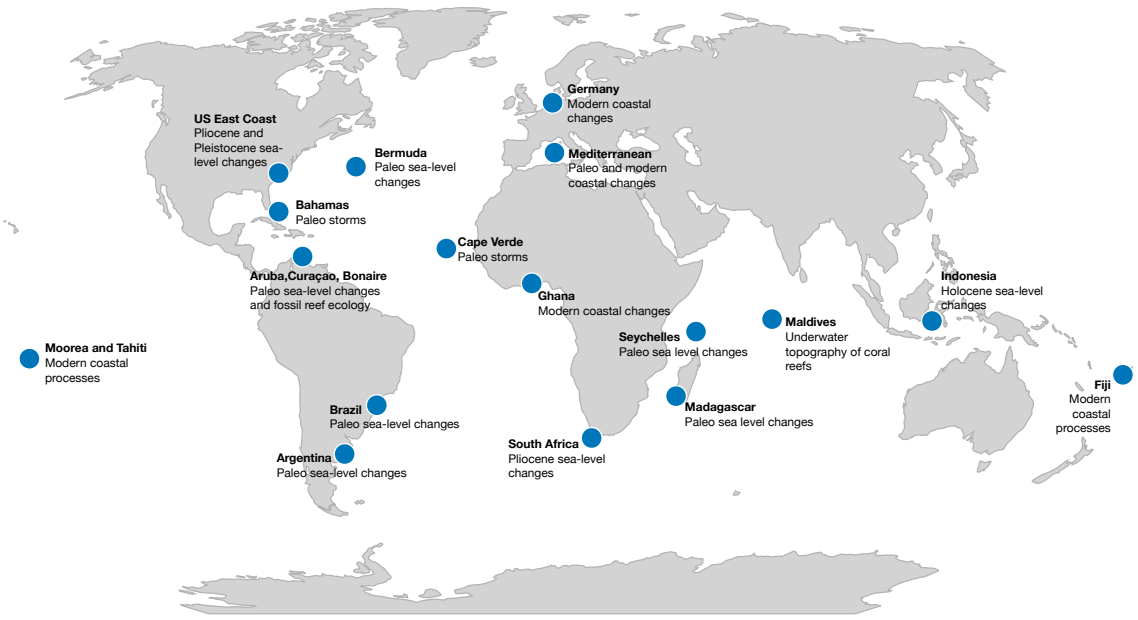
66.7% of my publications rank in the top 10% of journals by CiteScore.

Q1 88.4% of my publications appear in journals classified as Q1 by CiteScore, with the remainder in Q2 journals.

2.70 is my average Field-Weighted Citation Impact (FWCI). This metric indicates that my publications receive 170% more citations than the global average for similar works.

GEOGRAPHICAL RESEARCH FOCUS

My research spans a broad range of geographical areas, focusing on coastal and sea-level changes. I investigate modern coastal transformations in Germany and Ghana. In tropical areas like Moorea, Tahiti, and Fiji, my studies explore the interactions between modern coastal processes and coral reef ecological dynamics. Additionally, I examine paleo sea-level variations (from the Holocene to the Pliocene) in diverse locations such as the Mediterranean, Cape Verde, the Bahamas, Aruba, Curaçao, Bonaire, Madagascar, Bermuda, Argentina, Brazil, Seychelles, South Africa, and Indonesia. My work also entails studying the underwater topography of coral reefs in the Maldives and ancient sea-level changes on the US East Coast during the Pliocene and Pleistocene epochs. I employ a variety of methodologies to tackle the complexities of marine and coastal geomorphology at these globally distributed sites. I have led research expeditions to all the aforementioned locations, overseeing logistics, securing research permits, and orchestrating the scientific organization of the fieldwork on multiple occasions.



MEDIA REPORTS

My research activities have been featured in numerous media outlets, including newspapers, radio stations, television channels, and websites. Below, I provide a summary of the principal media reports covering my work.

2023 "Ancient warning of a rising sea" (Washington Post, Press, International)
2023 "Il livello del mare sta salendo. E le nostre coste sono a rischio" (Domani, Press, National)
2023 "Ambiente, lo studio: "Livello mare nel 2100 fino a un metro in più rispetto a oggi" (Sky Tg 24, Web Press, National)
2023 "Cambiamento climatico e gas serra, nel 2100 il livello del mare può aumentare di un metro: laguna di Venezia sorvegliata speciale" (Il Gazzettino, Web Press, National)
2023 "Il nuovo report sul cambiamento climatico: Il mare invaderà certamente le coste, ma possiamo agire per rallentare il fenomeno" (La Stampa, Press, National)
2023 "Aruba's Bocas: home to the rarest fossil reefs on the planet!" (Aruba today, Web Press, International)
2022 "Se sparisse il ghiaccio dei Poli..." (Focus, Press, National)
2021 "Surprisingly fast ice-melts in past raise fears about sea level rise" (Horizon Magazine, Web Press, National)
2021 "E se il mare del passato fosse stato più basso di quanto crediamo?" (Oggiscienza, Press, National)
2020 "La sfida delle inondazioni, sempre più violente e frequenti" (Le Scienze, Press, National)
2020 "South African seas up to 30m higher show a wet planet under siege" (Daily Maverick, Press, International)
2020 "Sea-level rise projections can improve with state-of-the-art model" (Science Daily, Press, International)
2017 "Ancient storms could have hurled huge boulders, scientists say" (Washington post, Press, International)
2017 "Drohnen liefern detailreiche Einblicke in Korallenriffe" (Der Standard, Press, International)
2017 "Mit Drohnen über dem Korallenriff" (Deutschland Radio, Radio, International)
2017 "Riffe schützen Inseln vor Monsterwellen. Die Welle" (Die Welle, Web press, International)
2017 "Drohnen für die Wissenschaft" (Arte TV, Television, International)
2017 "Mit Drohnen gegen die Korallenbleiche" (Welt, Television, International)
2016 "I droni contro l'erosione delle coste" (Dronezine, Press, National)
2015 "Quatre chercheurs au milieu des surfeurs" (La Depeche de Tahiti, Press, International)
2013 "Il business che spinge la startup é l'ecosistema costiero" (Il Secolo XIX, Press, National)
2013 "How High Could the Tide Go?" (New York Times, Press, International)
2011 "I protagonisti della ricerca scientifica in mare si raccontano" (SubAqua magazine, Press, National)

OUTREACH

I am actively involved in disseminating my scientific work through content creation on social media channels, with a focus on enhancing science communication. For example, a recent video featuring my expertise produced by Ca' Foscari has garnered approximately 67,000 views on TikTok and 29,000 on Instagram.

YouTube | *@CoastalScience*

I create and share videos covering field techniques, geographic information systems, and daily routines in fieldwork. My channel currently has 395 subscribers, and my videos have amassed about 52,000 views, with a total watch time of nearly 3,000 hours.

Podcast | *Storie di Mare*

I produce and host a podcast titled "Storie di Mare," which utilizes storytelling to educate listeners about coastal and marine processes. My episodes have collectively been streamed approximately 2,400 times, and are available on platforms like Spotify, YouTube, and Amazon Music.

Environmental Education | *Sons of the Ocean*

I collaborate with "Sons of the Ocean," a non-profit organization dedicated to environmental education for school-aged children and youth. I contribute media content, including video commentaries for social media, and give presentations aimed at science outreach.

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Alessio **Rovere**

Publications list - Lista delle pubblicazioni

Names of postdocs, Ph.D. students and master students
under my supervision while the article was published are underlined

I nomi di assegnist, student* di dottorato e student* magistrali*
che erano sotto la mia supervisione al momento della pubblicazione sono sottolineati.

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