CV - Dr. Gonzalo V. Gomez-Saez

Group Leader in **Biogeochemistry & Climate Change**

Full name:	**Dr. Gonzalo Vicente Gómez Sáez**
Age & Nationality:	18.05.1985 (40 years old), Spanish
Personal status:	Married with two children (7 and 2 year old)
Phone number & Email:	+49 (0) 89 2180 6733 / g.gomez@lmu.de
Academic degree:	Dr. *rer. nat.* (PhD defense date: 12.02.2016)
Languages:	Spanish (native), English (proficient), German (basic)
Publications (peer-rev.):	#19 (#4 in high impact journals)
Accumulated citations:	838; h-index: 13; i-10 index: 15
Grants:	>2.3 million € in external funding obtained as a PI
Group website:	https://www.gomez-saez-lab.com/

Research Experience

2022 - present	**Group Leader (DFG Emmy Noether)** (since 01/08/2022) Ludwig-Maximilians-Universität (LMU Munich), GeoBio^{LMU} Center Department of Earth and Environmental Sciences, Munich, Germany
2020 – 2022	**Postdoctoral Researcher** (2 years, 01/02/2020 – 28/02/2022) Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI) Bentho-Pelagic Processes Department, Bremerhaven, Germany
	Guest Scientist (5 months, 01/03/2022 – 31/07/2022) Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI) Bentho-Pelagic Processes Department, Bremerhaven, Germany
2016 – 2019	**Postdoctoral Researcher** (3 years, 16/05/2016 – 15/11/2019) Institute for Chemistry and Biology of Marine Environment (ICBM) Max Planck Group in Marine Geochemistry, Oldenburg, Germany
	Guest Scientist (2 years, 15/05/2017 – 14/05/2019) Max Planck Institute for Marine Microbiology (MPIMM) Department of Biogeochemistry, Bremen, Germany
2016	**Postdoctoral Fellowship** (3 months, 15/02/2016 – 15/05/2016) MARUM Center for Marine Environmental Sciences Hydrothermal Geomicrobiology Group, Bremen, Germany
2012 – 2016	**PhD student** (3 years and 3 months, 16/11/2012 – 12/02/2016) MARUM - University of Bremen (Bremen, Germany) Hydrothermal Geomicrobiology Group, Bremen, Germany

Career Breaks

24/06/2023 – 25/10/2023	**Parental leave** *"Elternzeit"* (75%, 4 months)
01/12/2017 – 28/02/2018	**Parental leave** *"Elternzeit"* (100%, 3 months)
01/08/2018 – 31/10/2018	**Parental leave** *"Elternzeit"* (100%, 3 months)

Education

2012 – 2016 **PhD Geosciences** (16/11/2012 – 12/02/2016)
MARUM - University of Bremen (Bremen, Germany)
Thesis: *Marine shallow hydrothermal systems: imprint of their exclusive biogeochemistry on dissolved organic matter and chemosynthesis*
Grade: *Magna Cum Laude* (see Awards).

2010 – 2012 **MSc European Program Inland Water Quality Assessment (IWQA)** (01/10/2010 – 30/09/2012) Universidad Autónoma de Madrid (Madrid, Spain), Mälardalen University (Västeras, Sweden) and University of Helsinki (Helsinki, Finland)
Thesis: *Detection methods for cyanobacteria producing odorous metabolites*.
Grade: Highest grade of the Master Program (9.5 out of 10, see Awards).

2004 – 2010 **BSc Environmental Sciences** (5-years "*Licenciatura"*)
(01/09/2004 – 30/09/2010). Universidad de Alcalá (Madrid, Spain)
Honorific award: Unique highest possible grade (*"Matricula de Honor"*) in Biochemistry and Mathematics
Thesis: *Characterization of polygonal terrains in Utopia Planitia (Mars) and in a terrestrial analogue in Kevo (Finnish Lapland)*
Grade: Highest possible grade (10 out of 10)

ERASMUS fellowship (last academic year of the B. Sc., 2009-2010)
Visiting student joining courses in the Master program in Sustainable Development
Turku University of Applied Sciences (Turku, Finland)

Awards & Grants

- More than 2.3 million € in external funding obtained as a Principal Investigator (PI), including DFG Emmy Noether research group (ca. 2 M €) and ERC Marie Curie Global Fellow (ca. 200,000 €).
- I have obtained grants as PI from Germany, Spain, Denmark, US and European funding agencies.

Grants & Awards obtained as a PI (Principal Investigator), ordered by number of Euros:

Amount Details

2,013,951 € **DFG Emmy Noether research group (2021)**
Topic: Ocean deoxygenation effects on dissolved organic matter sequestration in a changing ocean (grant #491444019). It includes funding for 6 years as a Group Leader position including one Postdoc and two PhD students

192,125 € **ERC Marie Sklodowska Curie Global Fellow (2022)**
Horizon Europe Global Postdoc Fellow 2021 selected for funding: outgoing phase at Boston (Northeastern University, USA) and return phase at Munich (LMU, Germany).
Evaluation result (grant #101062659): total score of 96.40% out of 100%.
Declined due to overlapping with DFG Emmy Noether grant (see below).

43,464 € **Danish Center for Marine Research (DCH) (2024)**
Cruise Leader and Chief Scientist to lead onboard the Danish research vessel RV Aurora the marine expedition under the project "DeoxyMar: Deoxygenation effects on microbial element cycling and community assembly from the Mariager Fjord to the Kattegat".
The project includes universities and research institutes in Germany, Denmark and Sweden

~18,000 € **Lindblad Expeditions - National Geographic (LEX-NG) (2023)**
Co-PI of the project "NEIGE: Novel microbial Ecosystems traits and its Implications for the Global Environment" selected for funding as a Visiting Scientist with Lindblad Expeditions - National Geographic (LEX-NG) in the "Journey to Antarctica: The White Continent" voyage onboard the vessel National Geographic Explorer

~12,000 € **Mutua Madrileña Foundation fellowship (2011)**
Highly competitive economical private fellowship for Spanish post-degree students given for 40 people in Spain, including only 8 students in Science

~8,000 € **MARUM Extension Funding (2015)**
Award for conclusion of manuscripts resulting from outstanding PhD theses finishing within the 3-years' time frame

~6000 € **Spanish Government Mobility Master fellowship (2010)**
Visiting student for the 2nd semester of the European Master Program in Sweden

~4000 € **Center for Advanced Studies CAS^{LMU} (2024)**
Funds for Visiting Fellow (David Velázquez (UAM, Madrid)) as a three-months guest in my group

~3000 € **ERASMUS fellowship (2009)**
Visiting student for the last year of the Bachelor *("Licenciatura")* joining the Master program courses in Sustainable Development in TUAS (Turku, Finland)

~3000 € **ERASMUS + fellowship (2011)**
Visiting student developing the Master thesis in University of Helsinki, Finland.
I declined the grant because it was incompatible with the Mutua Madrileña one (see above)

1350 € **GeoBio^{LMU} Center funds (2024)**
Funds for Student Assistant to help in the laboratory during three months

1150 € **LMU Open-Access Funds (2025)**
Funds for covering open access publication expenses

1000 € **GdCh Paul Crutzen Prize 2018 (2018)**
Second and corresponding author of the best paper in Environmental Chemistry and Ecotoxicology of 2018 by the German Chemical Society *(Gesellschaft Deutscher Chemiker*)

250 € **Munich GeoCenter LMU & TUM Master Thesis Award (2025)**
Principal supervisor of MSc thesis awarded as best thesis of Geobiology and Palaeontology Master programs at LMU and TUM universities in Munich (K. Muschler, see Mentoring)

- € **UAM Master Thesis Award (2012)**
Award publication of the Master Thesis in the University Autonomous of Madrid (UAM) "Best Theses of all Master Programs of 2011-2012". ISBN: 978-84-8344-452-8

Other grants as cooperation partner:

~215,000 € **Spanish Ministry of Science and Innovation (2023)**
Cooperation partner of the project "MERIDIAN: Microbial and Environmental dRIvers of Diversity in Antarctic terrestrial ecosystems" together with PI colleagues from UAM, Madrid, Spain

~32,000 € **DFG Research Vessel RV Meteor – EreBUS expedition (2017)**
Co-writer of the proposal but because of my Postdoc position not eligible to be officially PI on the funded grant. During the expedition, I worked as a PI on the planning, packing and onboard, including the supervision and evaluation of a Master student (Y. Oertel, see Mentoring)

Mentoring Experience

- As a Group Leader (PI):
  1. Dr. Ömer K. Coskun — Postdoc, since 10/2022, LMU Munich
  2. Marit Renken — PhD, since 01/2024, LMU Munich
  3. Marina Garcia Llorca — PhD, 08/2024 – 01/2025, LMU Munich
  4. Katharina Muschler — MSc thesis, 03/2024 – 09/2024, LMU Munich Grade: 1.0. **Awarded**
     MSc student, 10/2022 – 02/2025, LMU Munich
  5. Kaitlyn Przydzial — MSc student, 12/2024 – 02/2025, LMU Munich

- As a Postdoc and PhD:

Postdoc co-advisor for several national and international PhD students, all of them got 1st author publications derived from our work together (Papers #5, #7, #12, #15, see Publications):

1. Ann Noowong — PhD, thesis completed in 2021, Jacobs University
2. Saara Suominen — PhD, thesis completed in 2020, NIOZ, The Netherlands
3. Jomar Marques — PhD, thesis completed in 2016, UENF Campos, Brazil
4. Anika Pohlabeln — PhD, thesis completed in 2016, University of Oldenburg. **Awarded**

Master thesis supervised as official evaluator and undergraduate students supervised in the laboratory:

1. Yanik Oertel — MSc thesis, 2019, University of Oldenburg. Grade: 1.0
   MSc student, 2018-2019, University of Oldenburg.
2. Dorte Fischer — BSc student. 2021; AWI, Bremerhaven.
3. Bjorn Dieterich — BSc student, 2014-2015; MARUM, University of Bremen.

Teaching Experience

2024/2025	**6.2 SWS**
▪ Scientific Presentation and Communication (P8)	2 SWS, Master Geobiology MGAP, LMU
▪ Environmental Geobiology: Global Cycles (P3.1-3.2)	2 SWS, Master Geobiology MGAP, LMU
▪ Marine Geology (WP 45)	1.2 SWS, Bachelor Geology, LMU
▪ Earth Systems in Climate and Environmental Change (WP42)	1 SWS, Bachelor Geology, TUM & LMU
2023/2024	**7 SWS**
▪ Scientific Presentation and Communication (P8)	2 SWS, Master Geobiology MGAP, LMU
▪ Master Thesis (P11)	2 SWS, Master Geobiology MGAP, LMU
▪ Environmental Geobiology: Global Cycles (P3.1-3.2)	2 SWS, Master Geobiology MGAP, LMU
▪ Individual Research Project (P9.1-9.2)	1 SWS, Master Geobiology MGAP, LMU
2022/2023	**2 SWS**
▪ Environmental Geobiology: Global Cycles (P3.1-3.2)	2 SWS, Master Geobiology MGAP, LMU

Scientific Expeditions & Research Stays

2025 (Aug)	Research Vessel Aurora to anoxic basin Mariager Fjord (Denmark) (planned)	as a **PI**
2023 (Dec)	Antarctica expedition onboard the National Geographic Explorer	as a **PI**
2023 (May)	Anoxic basin coastal expedition (Mariager Fjord, Denmark)	as a **PI**
2023 (May)	Visiting researcher in Denmark at Aarhus University (Denmark)	
2020 (Aug)	Coastal sandy sediments from the North Sea (Sylt, Germany)	
2020 (April)	Research Vessel Meteor to Mauritanian upwelling (cancelled due to COVID-19)	
2020 (Feb)	Coastal offshore mesocosms to Peru upwelling (could not join)	
2018 (July)	Research Vessel Meteor M148-2 to Benguela upwelling system)	as a **PI**
2017 (July)	Research Vessel Meteor to Cariaco anoxic basin (cancelled due to politics)	
2017 (May)	Tidal flats from the North Sea (Janssand, Germany)	

2016 (July) Visiting researcher in Brazil at UENF (Campos dos Goytacazes, Brazil)
2016 (July) Mangroves from South Atlantic region (Sao Joao da Barra, Brazil)
2014 (July) Visiting researcher in Iceland at Matís laboratory (MATÍS, Reykjavík, Iceland)
2014 (June) Mid-Atlantic Ridge shallow hydrothermal vents (Hveravík Bay, Iceland)
2013 (Apr) Caribbean Sea shallow hydrothermal systems (Dominica Island, Lesser Antilles)
2011 (Feb) Several field works at Spanish & Swedish lakes (e.g. Erken, Alange)
2010 (June) Subarctic permafrost areas (Finnish Lapland, Kevo, Finland)

Publications

- I have authored 20 peer-reviewed, published articles: 6 as first author, 6 as second author, 3 as last author and 7 as corresponding author (*).
- Four publications were in high-impact journals (°): ***Nature Microbiology*** (Impact Factor (IF) = 18), ***Science Advances*** (IF = 14) and ***The ISME journal*** (IF = 10).
- Total citations (Google Scholar, 16.02.2025): 838, h-index: 13, i-10 index: 15
- My authored articles include international collaborators from universities and research centers in 16 countries: Brazil, Chile, China, Finland, Germany, Greece, Japan, Monaco, Netherlands, Norway, Spain, Switzerland, Peru, Turkey, UK and USA.
- One of the publications (#7) was awarded with the Paul Crutzen Prize 2018 for the best paper in Environmental Chemistry and Ecotoxicology of 2018 by the German Chemical Society (*GdCh*).
- ORCID: https://orcid.org/0000-0002-6308-5764
- Google Scholar: https://scholar.google.com/citations?user=ACNaN8IAAAAJ&hl=en
- Research Gate: https://www.researchgate.net/profile/Gonzalo_Gomez-Saez

Peer-reviewed, published articles

(*) = corresponding author
(°) = high-impact factor (IF > 10) journal
Underlined = people from my group

20. Thielecke A, Fernández-Méndez M, Arístegui J, Baumann M, Behncke J, Berger SA, Georgieva S, Goldenberg S, **Gomez-Saez GV**, Graco M, Heene T, Kittu L, Krause J, Ludwig A, Meyer J, Mohrholz V, Nejstgaard JC, Ortiz J, Schulz K, Smith A, Spilling K, Sswat M, Taucher J, Vanharanta M, Varmanen P, Riebesell U. (2025) Disentangling upwelling: how light and nutrient supply shape primary producers and stoichiometry in the Humboldt Upwelling system
. *Deep-Sea Research Part II (in press)*. DOI: 10.1016/j.dsr2.2025.105522

19(*). Coskun ÖK*, Orsi WD, D´Hondt S, **Gomez-Saez GV*** (2025)
Identifying the active microbes driving organosulfur cycling from taurine and methionine in marine sediment.
ISME communications, ycaf033. DOI: 10.1093/ismeco/ycaf033.

18. Coskun ÖK, **Gomez-Saez GV**, Beren M, Özcan D, Günay S, Elkin-V, Hoşgörmez H, Einsiedl F, Eisenreich F, Orsi WD (2024)
Quantifying genome-specific carbon fixation in a 750-meter deep subsurface hydrothermal microbial community.
FEMS Microbiology Ecology 97, fiae062 1-15. DOI: 10.1093/femsec/fiae062.

17. Coskun ÖK, **Gomez-Saez GV**, Beren M, Ozcan D, Hosgormez H, Einsiedl F, Orsi WD (2023)
Carbon metabolism and biogeography of candidate phylum "*Candidatus* Bipolaricaulota" in geothermal environments of Biga Peninsula, Turkey.
Frontiers in Microbiology 14: 1063139. DOI: 10.3389/fmicb.2023.1063139.

16. Sievert SM, Bühring SI, Gulmann LK, Hinrichs K-U, Pop Ristova P, **Gomez-Saez GV** (2022)
Fluid flow stimulates chemoautotrophy in a hydrothermally influenced coastal sediment.
Communications Earth & Environment 3:96. DOI: 10.1038/s43247-022-00426-5.

15. Suominen S, **Gomez-Saez GV**, Dittmar T, Sinninghe Damsté JS, Villanueva L (2022)
Interplay between microbial community composition and dissolved organic matter chemodiversity throughout the Black Sea water column redox gradient.
Limnology & Oceanography 67(2), 329-347. DOI: 10.1002/lno.11995.

14(°). Orsi WD, Vuillemin A, Coskun ÖK, Oertel Y, Niggemann J, Mohrholz V, **Gomez-Saez GV** (2022)
Carbon assimilating Fungi from surface ocean to subseafloor revealed by coupled phylogenetic and stable isotope analysis.
The ISME journal 16, 1245-1261. DOI: 10.1038/s41396-021-01169-5.

13(°*). **Gomez-Saez GV (*)**, Dittmar T, Holtappels M, Pohlabeln AM, Lichtschlag A, Schnetger B, Boetius A, Niggemann J (2021)
Sulfurization of dissolved organic matter in the anoxic water column of the Black Sea.
Science Advances 7 (25), eabf6199. DOI: 10.1126/sciadv.abf6199.

12. Noowong A[1], **Gomez-Saez GV**[1], Hansen CT, Koschinsky A, Dittmar T (2021)
Imprint of Kairei and Pelagia deep-sea hydrothermal systems (Indian Ocean) on marine dissolved organic matter. ([1]: equal contribution).
Organic Geochemistry 152, 104141. DOI: 10.1016/j.orggeochem.2020.104141.

11(°). Klatt JM, **Gomez-Saez GV**, Meyer S, Pop Ristova P, Yilmaz P, Granitsiotis M, Lavik G, Polerecky L, Bühring SI (2020)
Versatile cyanobacteria control the timing and extent of sulfide production in a Proterozoic analog microbial mat.
The ISME journal 14, 3024-3027. DOI: 10.1038/s41396-020-0734-z.

10. Wagner S, Schubotz F, Kaiser K, Hallmann C, Waska H, Rossel PE, Hansman R, Elvert M, Middelburg JJ, Engel A, Blattmann TM, Catalá TS, Lennartz ST, **Gomez-Saez GV**, Pantoja-Gutiérrez S, Bao R, Galy V (2020)
Soothsaying DOM: A current perspective on the future of oceanic dissolved organic carbon.
Frontiers in Marine Science 7, 341. DOI: 10.3389/fmars.2020.00341.

9(°). Orsi WD, Vuillemin A, Rodriguez P, Coskun ÖK, **Gomez-Saez GV**, Lavik G, Morholz V, Ferdelman TG (2020)
Metabolic activity analyses demonstrate that Lokiarchaeon exhibits homoacetogenesis in sulfidic marine sediments.
Nature Microbiology 5, 248-255. DOI: 10.1038/s41564-019-0630-3.

8(*). **Gomez-Saez GV** (*), Pohlabeln A, Stubbins A, Marsay CM and Dittmar T (2017)
Photochemical alteration of dissolved organic sulfur from sulfidic porewater.
Environmental Science & Technology 51, 14144-14154. DOI: 0.1021/acs.est.7b03713.

7(*). Pohlabeln A, **Gomez-Saez GV** (*), Noriega-Ortega BE and Dittmar T (2017)
Experimental evidence for abiotic sulfurization of marine dissolved organic matter.
Frontiers in Marine Science 4, 362. DOI: 10.3389/fmars.2017.00364.

6(*). **Gomez-Saez GV** (*), Pop Ristova P, Sievert SM, Elvert M, Hinrichs K-U, Bühring SI (2017)
Relative importance of chemoautotrophy for primary production in a light exposed marine shallow hydrothermal system.
Frontiers in Microbiology 8, 702. DOI: 10.3389/fmicb.2017.00702.

5. Marques JSJ, Dittmar T, Niggemann J, Almeida MG, **Gomez-Saez GV**, Rezende CE (2017)
Dissolved black carbon in the headwaters-to-ocean continuum of Paraíba do Sul River, Brazil.
Frontiers in Earth Science 5, 11. DOI: 10.3389/feart.2017.00011.

4(*). **Gomez-Saez GV** (*), Niggemann J, Dittmar T, Pohlabeln AM, Lang SQ, Noowong A, Pichler T, Wörmer L, Bühring SI (2016)
Molecular evidence for abiotic sulfurization of dissolved organic matter in marine shallow hydrothermal systems.
Geochimica et Cosmochimica Acta 190, 35-52. DOI: 10.1016/j.gca.2016.06.027.

3(*). **Gomez-Saez GV** (*), Riedel T, Niggemann J, Pichler T, Dittmar T, Bühring SI (2015)
Interaction between iron and dissolved organic matter in a marine shallow hydrothermal system off Dominica Island (Lesser Antilles).
Marine Chemistry 177, 677-686. DOI: 10.1016/j.marchem.2015.10.003.

2. Suurnäkki S, **Gomez-Saez GV**, Rantala-Ylinen A, Jokela J, Fewer DP, Sivonen K (2015)
Identification of geosmin and 2-methylisoborneol in cyanobacteria and molecular detection methods for the producers of these compounds.
Water Research 68, 56-66. DOI: 10.1016/j.watres.2014.09.037 (IF = 9)

1. Fewer DP, Jokela J, Paukku E, Österholm J, Wahlsten M, Perni P, Aitio O, Rouhiainen L, **Gomez-Saez GV**, Sivonen K (2013)
New structural variants of Aeruginosin produced by the toxic bloom forming cyanobacterium *Nodularia spumigena*.
PLoS ONE 8, 9, e73618. DOI: 10.1371/journal.pone.0073618 (IF = 3)

Non-peer reviewed articles:

3. Orsi WD, Vuillemin A, Rodriguez P, Coskun ÖK, **Gomez-Saez GV**, Lavik G, Morholz V, Ferdelman TG (2019)
Lokiarchaeon exhibits homoacetogenesis.
bioRxiv, 826495. DOI: https://doi.org/10.1101/826495

2. Ferdelman TG, Beier S, Benito Merino D, Böning P, Garaba SP, **Gomez-Saez GV**, et al. (2019)
EreBUS: Processes Controlling Greenhouse Gas Emmissions from the Benguela Upwelling System, Cruise No. 148/2, July 2 - July 20, 2018, Walvis Bay (Namibia) - Las Palmas de Gran Canaria (Spain).
METEOR Cruise Report M148/2, 88 p. ISSN: 2195-8475. DOI: https://doi.org/10.2312/cr_m148_2

1. **Gomez-Saez GV**, de Pablo MA (2010)
Characterization of poligonal terrains in Utopia Planitia (Mars) and in a terrestrial analogue in Kevo (Finnish Lapland).
CONAMA 10, Nov 22-26. Madrid. Spain. ISBN:978-84-614-6112-7

International Conferences, Invited Talks & Scientific Symposiums

37. Trejos-Espeleta JC, Bradley JA, Coskun ÖK, **Gomez-Saez GV**, Orsi WD. Fungi stabilize carbon across the land-sea interface in high-Arctic ecosystems. Goldschmidt 2025. July 2025. Prague. Czech Republic. **(talk)**

36. **Gomez-Saez GV**, Coskun ÖK, Renken M, Muschler K, Marshall IPG, Dittmar T, Orsi WD. Deoxygenation effects on dissolved organic matter cycling and microbial metabolisms in a seasonally anoxic basin. Goldschmidt 2025. July 2025. Prague. Czech Republic. **(talk)**

35. Chavez-Rodriguez L, Elling F, **Gomez-Saez GV**, Meile C, Pagel H, Störiko A (2025) Microbial ecology and elemental cycling in terrestrial and aquatic systems: integrating biogeochemistry, geomicrobiology and modeling. Goldschmidt 2025. July 2025. Prague. Czech Republic. **(session chair)**

34. **Gomez-Saez GV** (2025) Identifying the active microbes driving organosulfur cycling in marine settings combining qSIP and GC-QMS. COMPASS25 International Symposium. March 2025. Delmenhorst. Germany **(talk)**

33. **Gomez-Saez GV**, Muschler K, Coskun ÖK, Renken M, Garcia-Llorca M, Nicolas-Asselineau L, Zeller LM, Milucka J, Dittmar T, Orsi WD, Marshall IPG. Deoxygenation effects on the interaction between microbial metabolisms and dissolved organic matter cycling in the seasonally anoxic Mariager Fjord (Denmark, North Sea). EGU 2025. April 2025. Vienna. Austria. **(poster)**

32. Renken M, Dittmar T, Stock L, Elling FJ, Marshall IPG, **Gomez-Saez GV** (2025) Influence of oxygen concentration on the elemental and molecular composition of marine dissolved organic matter in anoxic basins. EGU 2025. April 2025. Vienna. Austria. **(talk)**

31. Simon C, Waska H, Bao H, Lennartz S, **Gomez-Saez GV** (2025) Opening the black box of natural dissolved organic matter. EGU 2025. April 2025. Vienna. Austria. **(session chair)**

30. **Gomez-Saez GV**, Coskun ÖK, D´Hondt S, Orsi WD (2024) Identifying uncultivated bacteria and archaea driving dissolved organic sulfur cycling in marine sediments. Deep Biosphere and Beyond 2024 Conference. July 2024. Tutzing. Germany. **(talk)**

29. Velázquez D, Manso C, Wörmer L, **Gomez-Saez GV**, Cires S (2024) Microbial and environmental drivers of diversity in Antarctic terrestrial ecosystems (MERIDIAN Project). X Symposium in Polar Studies. May 2024. Salamanca. Spain. **(poster)**

28. **Gomez-Saez GV** (2023) Novel microbial ecosystems traits and its implications for the global environment, the NEIGE project. Summary talk of our contribution to the LEX-NG expedition onboard the RV National Geographic Explorer to Antarctica. **(invited talk)**

27. **Gomez-Saez GV** (2023) Ocean deoxygenation effects on dissolved organic matter sequestration in a changing ocean. Marine Colloquium of University of Gothenburg. November 2023. Gothenburg. Sweden. **(invited talk)**

26. **Gomez-Saez GV** (2023) Ocean deoxygenation effects on dissolved organic matter sequestration in a changing ocean. TUM Chair of Hydrogeology Department Seminar. May 2023. Munich. Germany. **(invited talk)**

25. Orsi WD, Vuillemin A, Coskun ÖK, Rodriguez P, Oertel Y, Niggemann J, Mohrholz V, **Gomez-Saez GV** (2022) Carbon assimilating fungi from surface ocean to subseafloor revealed by coupled phylogenetic and stable isotope analysis. Goldschmidt 2023. August 2023. Lyon. France. (**talk)**

24. Galgani L, **Gomez-Saez GV**, Hepach H, Lennartz S (2023) Advances in ocean digitalization: linking interdisciplinary data types to detect human imprints on ocean biogeochemistry. Session SS076. ASLO 2023. Mallorca. Spain. (submitted **session chair**)

23. Coskun ÖK, Orsi WD, D´Hondt S, **Gomez-Saez GV** (2023) Dissolved organic sulfur utilization by marine benthic microbial communities revealed by quantitative DNA stable isotope probing. EGU 2023. April 2023. Vienna. Austria. (**talk**)

22. **Gomez-Saez GV**, Coskun ÖK, Oertel Y, Niggemann J, Dittmar T, Ferdelman TG, Orsi WD (2023) Spatial dynamics of marine dissolved organic matter in the Benguela upwelling system. EGU 2023. April 2023. Vienna. Austria. (**poster**)

21. **Gomez-Saez GV** (2022) Ocean deoxygenation effects on dissolved organic matter sequestration in a changing ocean. SYMPOSIUM 20 Years GeoBio Center LMU – Past, Present and Future. Oct 21. Munich. Germany. (**invited talk**)

20. Orsi WD, Vuillemin A, Coskun ÖK, Rodriguez P, Oertel Y, Niggemann J, Mohrholz V, **Gomez-Saez GV** (2022) Carbon assimilating fungi from surface ocean to subseafloor revealed by coupled phylogenetic and stable isotope analysis. ISME18. August 2022. Lausanne. Switzerland. (**poster**)

19. Holtappels M, **Gomez-Saez GV**, Zhu Z, Waska H, Wei B, Grotheer H, Henkel S, Mollenhauer G, Kasten S, Dittmar T (2022) Iron and DOM transformations in coastal sands. MARUM Excellence Cluster Annual Retreat 2022. (**poster**)

18. **Gomez-Saez GV**, Dittmar T, Holtappels M (2021) Microbial utilization of refractory deep-sea dissolved organic matter in coastal sandy sediments. MARUM Excellence Cluster Annual Retreat 2021. (**short talk**)

17. **Gomez-Saez GV**, Dittmar T, Pohlabeln AM, Holtappels M, Lichtschlag A, Schnetger B, Boetius A, Niggemann J (2020) Abiotic sulfurization of dissolved organic matter within the water column of the Black Sea. OSM 2020, Feb 16-21. San Diego. USA. **(poster)**

16. Noowong A, **Gomez-Saez GV**, Hansen CT, Koschinsky A, Dittmar T (2019) Molecular characterization of DOM in Indian Ocean hydrothermal systems. Goldschmidt 2019. Barcelona. Spain. **(talk)**

15. Seidel M, **Gomez-Saez GV**, Simon H, Schnetger B, Rezende CE, Dittmar T (2019) The biogeochemical cycling of nutrients and dissolved organic matter in a mangrove-fringed estuary. ASLO 2019. Puerto Rico. USA. (**talk)**

14. Suominen S, **Gomez-Saez GV**, Dittmar T, Sinninghe Damsté JS, Villanueva L (2019) Interplay between microbial functional potential and dissolved organic matter components throughout the Black Sea water column. ASLO 2019. Puerto Rico. USA. **(talk)**

13. **Gomez-Saez GV**, Pohlabeln AM, Stubbins A, Dittmar T (2017) Photochemical alteration of dissolved organic sulfur. ASLO 2017, Feb 27. Honolulu. USA. **(talk)**

12. **Gomez-Saez GV**, Pohlabeln AM, Seidel M, Noriega-Ortega BE, Marques JSJ, Ferdelman TG, Stubbins A, Niggemann J, Rezende CE, Dittmar T (2017) Sources and fate of dissolved organic sulfur (DOS). MPI external evaluation, May 2-3. Bremen. Germany. **(poster)**

11. **Gomez-Saez GV**, Niggemann J, Dittmar T, Pohlabeln AM, Lang SQ, Noowong A, Pichler T, Wörmer L, Bühring SI (2016) Sources and fate of dissolved organic sulfur at the redox interface of marine shallow hydrothermal systems. OSM 2016, Feb 21-26. New Orleans. USA. **(talk)**

10. **Gomez-Saez GV**, Niggemann J, Dittmar T, Riedel T, Pichler T, Bühring SI (2015) Natural variability of DOM in submarine shallow hydrothermal vents. ASLO 2015, Feb 22-27. Granada. Spain. **(talk)**

9. **Gomez-Saez GV**, Elvert M, Hinrichs K-U, Bühring SI (2014) Contributions of chemoautotrophy to total primary production in a shallow hydrothermal vent off Dominica Island: Insights from stable isotope probing of lipid biomarkers. EuroFed Lipids, May 28-31. Hamburg. Germany. **(poster)**

8. Bühring SI, Amend JP, **Gomez-Saez GV**, Häusler S, Hinrichs K-U, Pichler T, Pop Ristova P, Price RE, Santi I, Sollich M (2014) Geochemistry driven trends in microbial diversity and function across a temperature transect of a shallow water hydrothermal system off Milos (Greece). EGU 2014, Apr 27. Vienna. Austria. **(poster)**

7. Bühring SI, **Gomez-Saez GV**, Häusler S, Hinrichs K-U, Pichler T, Pop Ristova P, Santi I, Sollich M. 2013. Comparison of lipid biomarker and gene-based approaches to explore microbial diversity and functioning in a shallow water hydrothermal vent system off Milos (Greece). IMOG 2013, Sep 15-20. Tenerife. Spain. **(poster)**

6. **Gomez-Saez GV**, Sollich M, Pop Ristova P, Cording A, Elvert M, Hinrichs K-U, Bühring SI (2013) Stable isotope probing of lipid biomarkers in a shallow water hydrothermal vent system off Milos (Greece). IMOG 2013, Sep 15-20. Tenerife. Spain. **(poster)**

5. Känä S, **Gomez-Saez GV**, Rantala-Ylinen A, Jokela J, Fewer DP, Wahlsten M, Sivonen K (2013) Detection methods for odorous metabolites geosmin and 2-methylisoborneol and their producers in cyanobacteria. FEMS 2013, Jul 21-25. Leipzig. Germany. **(poster)**

4. Fewer DP, Jokela J, Paukku E, Wahlsten M, Rouhiainen L, **Gomez-Saez GV**, Österholm J, Sivonen K (2012) The production of small tetrapeptide protease inhibitors in the bloom-forming cyanobacterium Nodularia spumigena. ISPP 2012, Aug 5-10. Porto. Portugal. **(poster)**

3. Känä S, **Gomez-Saez GV**, Rantala-Ylinen A, Jokela J, Fewer DP, Wahlsten M, Sivonen K (2012) The production of the geosmin and 2-methylisoborneol odorous metabolites in cyanobacteria. ISPP 2012, Aug 5-10. Porto. Portugal. **(poster)**

2. **Gomez-Saez GV** (2011) WATERCHIP project and odorous metabolites. Academy of Finland Centre of Excellence Bi-annual meeting. Turku. Finland. **(talk)**

1. **Gomez-Saez GV**, de Pablo MA (2010) Characterization of poligonal terrains in Utopia Planitia (Mars) and in a terrestrial analogous in Kevo (Finnish Lapland). CONAMA 10, Nov 22-26. Madrid. Spain. **(poster)**

Editorial & Reviewer Experience

- Requested to review proposals for: National Science Foundation (NSF, USA), Klaus Tschira Boost Funds (Germany), US-Israel Binational Science Foundation (BSF, Israel) and Swiss National Science Foundation (SNF, Switzerland)

- Editorial Board: *Frontiers in Marine Science:* Review Editor on *Marine Biogeochemistry*

- Reviewer for the journals: *Nature Geoscience ~ Environmental Science & Technology ~ Frontiers in Earth Science ~ Journal of Marine Systems ~ Limnology & Oceanography ~ Limnology & Oceanography: Methods ~ - Marine Chemistry ~ Marine & Petroleum Geology ~ Organic Geochemistry ~ Water MDPI.* Total: #13

Academic Memberships

- Since 2023 EGU (European Geosciences Union)
- Since 2022 CAS^{LMU} (Center for Advanced Studies)
- Since 2022 GeoBio^{LMU} Center (LMU)
- Since 2013 CERFA (Spanish Scientists Society in Germany)
- 2014 - 2017 ASLO (Association for Sciences of Limnology and Oceanography)
- 2013 - 2015 GLOMAR (Bremen Graduate School for Marine Sciences)
- 2012 - 2015 EAOG (European Association of Organic Geochemists)

Public Outreach & Community Service

- Group website design, management and organization (https://www.gomez-saez-lab.com/).
  Web visitors (16.02.2025): #3238

- Press article "Warming in the cooler" about Antarctic scientific expedition preparation together with the LMU press team: https://www.lmu.de/en/newsroom/news-overview/news/polar-research-warming-in-the-cooler.html
  The associated tweet/X post from @LMU_Muenchen got half million views (553 K) in one-week.

- Organization of 3D virtual tour to the Paleontological Museum together with Dr. Volker Eisenlauer and students from the Universität der Bundeswehr München, with the idea to provide virtual access to people with physical disabilities (https://lingo.farm/VRDinoEG3/index.htm).

- Organization of yearly activities for the kindergarten "*Mäcki Loffel e.V.*" (3-6 years old) including:
  - Group visits to Paleontological Museum of Munich guided by experts from the "*Musems pädagogisches Zentrum*" (MPZ, Munich).
  - "Science Day" with "*Vorschulkinder*" (5-6 years old), including adapted scientific experiments about clouds formation, greenhouse effect and climate change.
  - "Antarctic Games Day" with 3-6 years old kids.