

# CV - Dr. Gonzalo V. Gomez-Saez

## Group Leader in Biogeochemistry & Climate Change

Full name:	<b>Dr. Gonzalo Vicente Gómez Sáez</b>
Age & Nationality:	18.05.1985 (39 years old), Spanish
Personal status:	Married with two children (6 and 1 year old)
Phone number & Email:	+49 (0) 89 2180 6733 / g.gomez@lmu.de
Academic degree:	Dr. <i>rer. nat.</i> (PhD defense date: February 12 <sup>th</sup> 2016)
Languages:	Spanish (native), English (proficient), German (basic)
Publications (peer-rev.):	#18 (#4 in high impact: <i>Science Adv</i> , <i>Nature Microbiol</i> , <i>ISMEj</i> )
Accumulated citations:	753; h-index: 13; i-10 index: 13
Grants:	>2 million € in external funding obtained as a PI, including DFG Emmy Noether, Marie Curie Global Fellow and National Geographic funds
Group website:	<a href="https://www.gomez-saez-lab.com/">https://www.gomez-saez-lab.com/</a>

## Research Experience

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Present	<b>Group Leader (DFG Emmy Noether)</b> (since 01/08/2022) DFG Emmy Noether Group in Biogeochemistry & Climate Change Ludwig-Maximilians-Universität (LMU Munich), GeoBio <sup>LMU</sup> Center Department of Earth and Environmental Sciences, Munich, Germany
2020 – 2022	<b>Postdoctoral Researcher</b> (2 years, 01/02/2020 – 28/02/2022) Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI) Benthic-Pelagic Processes Department, Bremerhaven, Germany  <b>Guest Scientist</b> (5 months, 01/03/2022 – 31/07/2022) Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI) Benthic-Pelagic Processes Department, Bremerhaven, Germany
2016 – 2019	<b>Postdoctoral Researcher</b> (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  <b>Guest Scientist</b> (2 years, 15/05/2017 – 14/05/2019) Max Planck Institute for Marine Microbiology (MPIMM) Department of Biogeochemistry, Bremen, Germany
2016	<b>Postdoctoral Fellowship</b> (3 months, 15/02/2016 – 15/05/2016) MARUM Center for Marine Environmental Sciences Hydrothermal Geomicrobiology group, Bremen, Germany

## Career Breaks

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24/06/2023 – 25/10/2023	<b>Parental leave</b> “ <i>Elternzeit</i> ” (75%, 4 months)
01/12/2017 – 28/02/2018	<b>Parental leave</b> “ <i>Elternzeit</i> ” (100%, 3 months)
01/08/2018 – 31/10/2018	<b>Parental leave</b> “ <i>Elternzeit</i> ” (100%, 3 months)

## Education

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- 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      **M. Sc. European Program Inland Water Quality Assessment (IWQA)** (01/10/2010 – 30/09/2012) Universidad Autónoma de Madrid (Madrid, Spain), Mälardalen University (Västerås, 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      **B. Sc. 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 (TUAS, Turku, Finland)

## Mentoring Experience

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▪ As a Group Leader (PI):

1. Dr. Ömer K. Coskun (Postdoc, since 10/2022, LMU Munich)
2. Marit Renken (PhD student, since 01/2024, LMU Munich)
3. Marina García Llorca (PhD student, since 08/2024, LMU Munich)
4. Katharina Muschler (MSc level, since 01/2023, LMU Munich)

▪ As a Postdoc and PhD:

Co-advisor for several international and national **PhD students**, all of them got 1<sup>st</sup> author publications derived from our work together:

1. Ann Noowong (PhD completed in 2021, Jacobs University, Germany)
2. Saara Suominen (PhD completed in 2020, NIOZ, The Netherlands)
3. Jomar Marques (PhD completed in 2016, UENF, Brazil)
4. Anika Pohlabeln (PhD completed in 2016, University of Oldenburg, Germany, awarded)

**Master thesis** supervised as official evaluator:

1. Yanik Oertel (MSc thesis, 2019, University of Oldenburg). Grade: 1.0

Supervision of **undergraduate** research students in research projects, field works or in the laboratory:

1. Dorte Fischer (2021; AWI, Bremerhaven)
2. Yanik Oertel (2018-2019; ICBM-MPI, University of Oldenburg)
3. Bjorn Dieterich (2014-2015; MARUM, University of Bremen)

## Awards & Grants

- More than 2 million € in external funding obtained as a PI, including DFG Emmy Noether research group (ca. 1.8 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.

- 2024 **Danish Center for Marine Research (DCH)** (PI, 43,464 €)  
Cruise Leader and Chief Scientist to lead onboard Research Vessel Aurora the marine expedition under the project "DeoxyMar: Deoxygenation effects on microbial element cycling and community assembly from the Mariager Fjord to the Kattegat"
- 2024 **GeoBio<sup>LMU</sup> Center funds** (PI, ca. 1,350 €)  
Funds for Student Assistant to help in the laboratory during three months
- 2023 **Center for Advanced Studies CAS<sup>LMU</sup>** (PI, ca. 4,000 €).  
Visiting Fellow funds for having Dr. David Velázquez (UAM, Madrid) as a guest in my laboratory during summer 2024
- 2023 **Lindblad Expeditions - National Geographic (LEX-NG)** (PI, ca. 18,000 €).  
Co-PI of the project "NEIGE: Novel microbial Ecosystems traits and its Implications for the Global Environment" to become 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
- 2023 **Spanish Ministry of Science and Innovation** (ca. 215,000 €)  
Cooperation partner of the project "MERIDIAN: Microbial and Environmental Drivers of Diversity in Antarctic terrestrial ecosystems" together with PI colleagues from UAM, Madrid, Spain
- 2022 **ERC Marie Skłodowska Curie Global Fellow** (PI, 192,125 €, declined).  
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).
- 2021 **DFG Emmy Noether research group** (PI, 1,879,020 €).  
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
- 2018 **GdCh Paul Crutzen Prize 2018** (1,000 €)  
Second and corresponding author of the best paper in Environmental Chemistry and Ecotoxicology of 2018 by the German Chemical Society (*Gesellschaft Deutscher Chemiker*)
- 2017 **DFG Research Vessel RV Meteor – EreBUS expedition** (ca. 32,000 €)  
Co-writer of the proposal but because of my 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 (see Mentoring)
- 2015 **MARUM Extension Funding** (ca. 8,000 €)  
Award for conclusion of manuscripts resulting from outstanding PhD theses finishing within the 3-years' time frame

- 2012 **UAM Master Thesis Award** (-€)  
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
- 2011 **Mutua Madrileña Foundation fellowship** (ca. 12,000 €)  
Highly competitive economical private fellowship for Spanish post-degree students given for 40 people in Spain, including only 8 students in Science
- 2011 **ERASMUS + fellowship** (ca. 3,000 €, declined)  
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)
- 2010 **Spanish Government Mobility Master fellowship** (ca. 6,000 €)  
Visiting student for the 2<sup>nd</sup> semester of the European Master Program in Sweden
- 2009 **ERASMUS fellowship** (ca. 3,000 €)  
Visiting student for the last year of the Bachelor (“*Licenciatura*”) joining the Master program courses in Sustainable Development in TUAS (Turku, Finland)

## Scientific Expeditions & Research Stays

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- 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 Matis 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)

## Teaching Experience

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2023/2024 (4 SWS, Summer Semester):

- P 8 Scientific Presentation and Communication (2 SWS, Master MGAP, LMU)
- P 11 Master Thesis (2 SWS, Master MGAP, LMU)

2023/2024 (3 SWS, Winter Semester):

- P 3.1/3.2 Global Cycles: Lecture & Tutorial (2 SWS, Master MGAP, LMU)
- P 9.1/9.2 Individual Research Project (1 ECTS, Master MGAP, LMU)

2022/2023 (2 SWS, Winter Semester):

- P 3.1/3.2 Global Cycles: Lecture & Tutorial (2 SWS, Master MGAP, LMU)

## Publications

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- I have authored 18 peer-reviewed, published articles: 6 as first author, 6 as second author, 2 as last author and 6 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, 11.08.2024): 753, h-index: 13.
- My authored articles include international collaborators from universities and research centers in 13 countries: Brazil, Chile, China, Finland, Germany, Greece, Japan, Monaco, Netherlands, Switzerland, 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](https://www.researchgate.net/profile/Gonzalo_Gomez-Saez)

### **Under review:**

2. Coskun ÖK\*, Orsi WD, D'Hondt S, **Gomez-Saez GV\***.  
Identifying the active microbes driving organosulfur cycling in marine sediment.
1. Thielecke A, Fernández-Méndez M, Aristegui 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, Nejtgaard JC, Ortiz J, Schulz K, Smith A, Spilling K, Sswat M, Taucher J, Vanharanta M, Varmanen P, Riebesell U.  
Primary producers are controlled by light and nutrients in the Humboldt upwelling system: a mesocosm study off Peru.

### **Peer-reviewed, published articles:**

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. (IF = 4)
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. (IF = 5)
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. (IF = 8)

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 (IF = 5)
14. Orsi WD, Vuillemin A, Coskun ÖK, Oertel Y, Niggemann J, Mohrholz V, **Gomez-Saez GV** (2021) Carbon assimilating Fungi from surface ocean to seafloor revealed by coupled phylogenetic and stable isotope analysis.  
*The ISME journal* 16, 1245-1261.  
DOI: 10.1038/s41396-021-01169-5 (IF = 10).
13. **Gomez-Saez GV (\*)**, Dittmar T, Holtappels M, Pohlabein 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 (IF = 14)
12. Noowong A<sup>1</sup>, **Gomez-Saez GV**<sup>1</sup>, Hansen CT, Koschinsky A, Dittmar T (2021) Imprint of Kairei and Pelagia deep-sea hydrothermal systems (Indian Ocean) on marine dissolved organic matter. (<sup>1</sup>: equal contribution).  
*Organic Geochemistry* 152, 104141.  
DOI: 10.1016/j.orggeochem.2020.104141 (IF = 3)
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 (IF = 10)
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 (IF = 4)
9. Orsi WD, Vuillemin A, Rodriguez P, Coskun ÖK, **Gomez-Saez GV**, Lavik G, Mohrholz V, Ferdeman 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 (IF = 18)
8. **Gomez-Saez GV (\*)**, Pohlabein 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: 10.1021/acs.est.7b03713 (IF = 8)
7. Pohlabein 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. (IF = 4)

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 (IF = 4)
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 (IF = 3)
4. **Gomez-Saez GV** (\*), Niggemann J, Dittmar T, Pohlabein 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 (IF = 5)
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 (IF = 3)
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, Pauku 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 Emissions from the Benguela Upwelling System, Cruise No. 148/2, July 2 - July 20, 2018, Walvis Bay (Namibia) - Las Palmas de Gran Canaria (Spain). *METEOR-Berichte (Cruise Report)* M148/2, 88 p. ISSN: 2195-8475. DOI: [https://doi.org/10.2312/cr\\_m148\\_2](https://doi.org/10.2312/cr_m148_2)
1. **Gomez-Saez GV**, de Pablo MA (2010) Characterization of polygonal 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

### **Selected press-releases from published articles (# = number of article above):**

- #16: Eureka! (AAAS):  
[https://www.eureka!org/news-releases/950705Press release MPI \(Max Planck Institute\):](https://www.eureka!org/news-releases/950705Press%20release%20MPI%20(Max%20Planck%20Institute):)
- #13 MPI Bremen (Max Planck Institute):  
<https://www.mpi-bremen.de/en/Sulfur-enhances-carbon-storage-in-the-Black-Sea.html>
- #9 LMU university:  
[http://www.en.uni-muenchen.de/news/newsarchiv/2019/orsi\\_lokiarchaea.html](http://www.en.uni-muenchen.de/news/newsarchiv/2019/orsi_lokiarchaea.html)
- #9 National Geographic (Spanish):  
[https://www.nationalgeographic.com.es/ciencia/lokiarchaeota-hipotesis-hidrogeno-y-surgimiento-celula-eucariota\\_15082](https://www.nationalgeographic.com.es/ciencia/lokiarchaeota-hipotesis-hidrogeno-y-surgimiento-celula-eucariota_15082)
- #7 UOL university (Paul Crutzen Prize Award):  
<https://www.presse.uni-oldenburg.de/mit/2018/300.html>
- #3 MARUM:  
<https://www.marum.de/en/Discover/Hydrothermal-Vents-in-the-Caribbean.html>

### **Invited Talks, International Conferences & Scientific Symposiums**

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- 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 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 seafloor revealed by coupled phylogenetic and stable isotope analysis. Goldschmidt 2023. August 2023. Lyon. France. **(talk)**
- 24. **Gomez-Saez GV**, Hepach H, Galgani L, Lennartz S (2023) Advances in ocean digitalization: linking interdisciplinary data types to detect human imprints on ocean biogeochemistry. Session SS076. ASLO 2023. Mallorca. Spain. **(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 seafloor 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, Pohlabein 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**, Pohlabein AM, Stubbins A, Dittmar T (2017) Photochemical alteration of dissolved organic sulfur. ASLO 2017, Feb 27. Honolulu. USA. (**talk**)
12. **Gomez-Saez GV**, Pohlabein 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, Pohlabein 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, Pauku 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 polygonal terrains in Utopia Planitia (Mars) and in a terrestrial analogue in Kevo (Finnish Lapland). CONAMA 10, Nov 22-26. Madrid. Spain. (**poster**)

## Academic Memberships

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- Since 2023 EGU (European Geosciences Union)
- Since 2022 CAS<sup>LMU</sup> (Center for Advanced Studies)
- Since 2022 GeoBio<sup>LMU</sup> 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)

## Editorial & Reviewer Experience

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- Requested to review proposals for: National Science Foundation (NSF, USA), Klaus Tschira Boost Funds (Germany) 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* ~ *Organic Geochemistry* ~ *Water MDPI*. Total reviewed papers: #12

## Public Outreach

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- Group website design, management and organization (<https://www.gomez-saez-lab.com/>). Web visitors (11.08.2024): #2600
- Press article “Warming in the cooler” about Antarctic scientific expedition 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.