

# Dr. Jeffrey Paulo H. Perez

Section 3.5 Interface Geochemistry, GFZ German Research Centre for Geosciences

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 <https://scholar.google.com/citations?user=-ad9eEIAAAAJ>

## EDUCATION

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02.2017 – 01.2020	Doctor of Natural Sciences ( <i>Dr. rer. nat.</i> ) <i>Earth Sciences (Geochemistry)</i> <i>Summa cum laude</i> <i>Doctoral defense: 17.01.2020</i>	Freie Universität Berlin, Germany
09.2014 – 09.2016	Master of Science in Environmental Sanitation <i>Summa cum laude (1<sup>st</sup> in class, top 5%)</i>	Ghent University, Belgium
06.2007 – 04.2012	Bachelor of Science in Chemical Engineering <i>Cum laude (5<sup>th</sup> in class, top 10%)</i>	University of the Philippines Los Baños, Philippines

## RESEARCH EXPERIENCE

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02.2020 – Present	Postdoctoral Scientist, <b>GFZ German Research Centre for Geosciences, Germany</b> <i>Section 3.5 Interface Geochemistry, Department of Geochemistry</i> “Coupled dynamics of iron and carbon (bio)geochemistry in Arctic soils”	
10.2016 – 02.2020	Doctoral Research Fellow, <b>GFZ German Research Center for Geosciences, Germany</b> <i>Section 3.5 Interface Geochemistry, Department of Geochemistry</i> PhD advisor: Prof. Liane G. Benning Marie Skłodowska-Curie PhD Fellowship (EU H2020 MSCA-ITN Metal-Aid): “Green rust formation and reactivity with arsenic species”	
01.2019, 05.2019	Research visits at <b>University of Leeds, United Kingdom</b> <i>Leeds Electron Microscopy and Spectroscopy Centre (LEMAS)</i> Supervisors: Dr. Helen M. Freeman, Dr. Andy P. Brown Royal Society of Chemistry (RSC) Researcher Mobility Grant and Geo.X Travel Grant: “Revealing green rust oxidation <i>in situ</i> using monochromated scanning transmission electron microscopy electron energy loss spectroscopy (STEM-EELS)”	
09.2018	Research stay at <b>Karlsruhe Institute of Technology, Germany</b> <i>Geochemistry Working Group, Institute of Applied Geosciences</i> Host: Prof. Thomas Neumann “As and Fe K-edge X-ray absorption spectroscopy (XAS) analysis of arsenic-bearing iron (oxyhydr)oxides”	
10.2017 – 02.2018	Research stay at <b>University of Copenhagen, Denmark</b> <i>Nano-Science Centre, Department of Chemistry</i> Host: Dr. Dominique J. Tobler “Abiotic transformation of arsenic-bearing iron (oxyhydr)oxides to green rust”	
09.2015 – 09.2016	Master’s thesis project, <b>Ghent University, Belgium</b> <i>Centre for Ordered Materials, Organometallics &amp; Catalysis (COMOC), and Laboratory of Analytical Chemistry and Applied Ecochemistry (ECO-CHEM)</i> Supervisors: Prof. Pascal Van Der Voort, Prof. Gijs Du Laing “Iron oxide nanoparticles in covalent organic frameworks: Novel hybrid adsorbents for metal sequestration”	

- 06.2015 – 07.2015    Research internship at **Universidad de Cuenca, Ecuador**  
*Program for Water and Soil Management (PROMAS), Faculty of Engineering*  
 Internship: “Monitoring, performance evaluation and improvement of sludge treatment in the waste stabilization pond in Cuenca, Ecuador”  
 Supervisors: Prof. Felipe Cisneros Espinosa, Prof. Peter Goethals (Ghent University)
- 06.2011 – 03.2012    Bachelor’s thesis project, **University of the Philippines Los Baños, Philippines**  
*Department of Chemical Engineering*  
 Supervisor: Dr. Butch Bataller  
 “Parametric and optimization studies on the two-stage acid hydrolysis of cogon grass (*Imperata cylindrica*) for xylose production”

## TEACHING EXPERIENCE

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- Since 03.2021        Lecturer, *GFZ German Research Centre for Geosciences*
- Co-teach the graduate level course ‘Mineral Characterization’ (offered through the Freie Universität Berlin) with Prof. Dr. Liane G. Benning, specifically on the topic of ‘Gas Sorption Analysis’ and ‘Applications of X-ray Absorption Spectroscopy in Environmental Geochemistry’
- 07.2012 – 07.2014    Lecturer, *Department of Engineering Sciences, College of Engineering and Agro-Industrial Technology, University of the Philippines Los Baños, Philippines*
- Course development and teaching engineering courses to Bachelor students, usually 2-3 lecture (30-35 students) and 2-3 practical courses (20 students) per semester: *Statics of Rigid Bodies, Mathematical Methods in Engineering, Engineering Graphics, Computer Applications in Engineering*
  - Coordination, development, outreach and teaching (1 class per semester, 3 h per week; 20-30 students) for the literacy and civic welfare training programs

## HONORS and AWARDS

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- 2020        ▪ Friedrich-Robert-Helmert-Award  
*Awarded by the Freunde und Förderer des GFZ Potsdam for the best doctoral thesis at the GFZ German Research Centre for Geosciences*
- 2019        ▪ Best Poster Award, Research in Progress 2019 Joint Meeting, organized by the Clay Minerals Group (MinerSoc) and RSC Environmental Chemistry Group
- 2016        ▪ Water Technology Award, Belgium (2<sup>nd</sup> place, *Prijs van de innovatie*)  
*Awarded by Water Circle Belgium for the best master’s thesis on water treatment technology in Flanders Region, Belgium*
- Environmental Science & Technology Thesis Award, Ghent University, Belgium  
*Awarded by ArcelorMittal and Indaver NV for the best master’s thesis from the Faculty of Bioscience Engineering*
- 2012        ▪ University President’s Medal of Excellence, University of the Philippines System
- Medal of Academic Excellence in Engineering, University of the Philippines Los Baños
  - Medal of Academic Excellence in Science, University of the Philippines Los Baños
  - Most Outstanding Student Leader in Engineering, University of the Philippines Los Baños

## GRANTS and FELLOWSHIPS | Total: ~322,600 EUR to date

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- 2021        ▪ Procope Mobility Grant (3,800 EUR), *awarded by the Department of Science and Technology of the French Embassy in Germany*
- GFZ Expedition Fund for synchrotron beamtime experiments (4,000 EUR), Principal investigator
  - GFZ Expedition Fund for fieldwork in Iceland to collect soil and water samples (6,500 EUR), Principal Investigator

- 2019     ▪ Geo.X Travel Grant for Outgoing Early Career Scientist (2,500 EUR)
- 2018     ▪ Royal Society of Chemistry (RSC) Researcher Mobility Grant (~5,800 EUR)
- Geo.X conference travel grant (500 EUR) for *As2018 Conference in Beijing, China*
- 2017     ▪ Travel Grant (~400 EUR) for *Total Scattering for Nanotechnology Summer School in Como, Italy*
- 2016     ▪ Marie Skłodowska-Curie PhD Fellowship (EU H2020 MSCA-ITN Metal-Aid) (~250,000 EUR)
- 2014     ▪ VLIR-UOS MSc Scholarship, Belgium (~34,000 EUR, success rate < 10%)
- 2013     ▪ Basic Research Grant, University of the Philippines Los Baños (~2,600 EUR)
- 2007     ▪ DOST Undergraduate Scholarship, Philippines (~13,000 EUR; success rate 13%)

## FUNDED SYNCHROTRON BEAMTIME

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- 11.2021   As and Fe K-edge X-ray absorption spectroscopy (XAS) beamtime, BM23 beamline, European Synchrotron Radiation Facility, France (12 shifts, Principal Investigator)
- 02.2020   As and Fe K-edge X-ray absorption spectroscopy (XAS) beamtime, I20-scanning beamline, Diamond Light Source, UK (12 shifts, Principal Investigator)
- 11.2018   As K-edge X-ray absorption spectroscopy (XAS) beamtime, BM23 beamline, European Synchrotron Radiation Facility, France (14 shifts, Principal Investigator)
- 09.2018   As and Fe K-edge X-ray absorption spectroscopy (XAS) beamtime, SUL-X beamline, ANKA-KIT, Germany (15 shifts, Co-Investigator)
- 02.2017   X-ray powder diffraction (XRPD) and pair distribution function (XPDF) beamtime, I15 beamline, Diamond Light Source, UK (9 shifts, Co-Investigator)

## SCIENTIFIC OUTPUT

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\*– co -first authors, **bold** – self

### Manuscripts under review

1. **Perez, J.P.H.**, Tobler, D.J., Freeman, H.M., Brown, A.P., Hondow, N.S., van Genuchten, C.M., Benning, L.G. Arsenic species delay structural ordering during green rust sulfate crystallization from ferrihydrite. Under review in *Environmental Science: Nano*.
2. Mangayayam, M.C., **Perez, J.P.H.**, Alonso-de Linaje, V., Dideriksen, K., Benning, L.G., Tobler, D.J. Sulfidation extent of nanoscale zerovalent iron controls selectivity and reactivity with mixed chlorinated hydrocarbons in natural groundwater. Under review in *Journal of Hazardous Materials*.

### Peer-reviewed publications

1. Krone, L.V., Hampl, F.J., Schwerdhelm, C., Bryce, C., Ganzert, L., Kitte, A., Übernickel, K., Dielforder, A., Aldaz, S., Oses, R., **Perez, J.P.H.**, Sanchez, P., Wagner, D., Weckmann, U., von Blackenburg, F. (2021). Deep weathering in the semi-arid Coastal Cordillera, Chile. *Scientific Reports*, 11, 13057. DOI: [10.1038/s41598-021-90267-7](https://doi.org/10.1038/s41598-021-90267-7).
2. **Perez, J.P.H.**, Schiefler, A.A., Navaz Rubio, S., Reischer, M., Overhue, N.D., Benning, L.G., Tobler, D.J. (2021). Arsenic removal from natural groundwater using 'green rust': Solid phase stability and contaminant fate. *Journal of Hazardous Materials*, 401, 123327. DOI: [10.1016/j.jhazmat.2020.123327](https://doi.org/10.1016/j.jhazmat.2020.123327).
3. Füllenbach, L.C., **Perez, J.P.H.**, Freeman, H.M., Thomas, A.N., Mayanna, S., Parker, J.E., Göttlicher, J., Steininger, R., Radnik, J., Benning, L.G., Oelkers, E.H. (2020). Nanoanalytical identification of siderite dissolution-coupled Pb removal mechanisms from oxic and anoxic aqueous solutions. *ACS Earth & Space Chemistry*, 4, 11, 1966-1977. DOI: [10.1021/acsearthspacechem.0c00180](https://doi.org/10.1021/acsearthspacechem.0c00180).
4. Wang, H.Y., Byrne, J.M., **Perez, J.P.H.**, Thomas, A.N., Göttlicher, J., Höfer H.E., Mayanna, S., Kontny, A., Kappler, A., Guo, H.M., Benning, L.G., Norra, S. (2020). Arsenic sequestration in pyrite and greigite in the buried peat of As-contaminated aquifer. *Geochimica et Cosmochimica Acta*, 284, 107-119. DOI: [10.1016/j.gca.2020.06.021](https://doi.org/10.1016/j.gca.2020.06.021).

5. **Perez, J.P.H.**, Freeman, H.M., Brown, A.P., Van Genuchten, C.M., Dideriksen, K., Tobler, D.J., Benning, L.G. (2020). Direct visualization of arsenic binding on green rust sulfate. *Environmental Science & Technology*, 54, 3297-3305. DOI: [10.1021/acs.est.9b07092](https://doi.org/10.1021/acs.est.9b07092). *Featured in the European Synchrotron Radiation Facility (ESRF) Highlights 2020*.
6. Mangayayam, M.C., **Perez, J.P.H.**, Dideriksen, K., Freeman, H.M., Bovet, N., Benning, L.G., Tobler, D.J. (2019). Structural transformation of sulfidized zerovalent iron and its impact on long-term reactivity. *Environmental Science: Nano*, 6, 3422-3430. DOI: [10.1039/C9EN00876D](https://doi.org/10.1039/C9EN00876D).
7. Hövelmann, J., Stawski, T.M., Freeman, H.M., Besselink, R.B., Mayanna, S., **Perez, J.P.H.**, Hondow, N.S., Benning, L.G. (2019). Struvite crystallization and the effect of Co<sup>2+</sup> ions. *Minerals*, 9(9), 503. DOI: [10.3390/min9090503](https://doi.org/10.3390/min9090503).
8. Freeman, H.M., **Perez, J.P.H.**, Hondow, N., Benning, L.G., Brown, A.P. (2019). Beam-induced oxidation of green rust monitored by STEM-EELS. *Micron*, 122, 46-52. DOI: [10.1016/j.micron.2019.02.002](https://doi.org/10.1016/j.micron.2019.02.002).
9. **Perez, J.P.H.**, Tobler, D.J., Thomas, A., Freeman, H.M., Dideriksen, K., Radnik, J., Benning, L.G. (2019). Adsorption and reduction of arsenate during the Fe<sup>2+</sup>-induced transformation of ferrihydrite. *ACS Earth & Space Chemistry*, 3(6), 884-894. DOI: [10.1021/acsearthspacechem.9b00031](https://doi.org/10.1021/acsearthspacechem.9b00031).
10. **Perez, J.P.H.\***, Folens, K.\*, Leus, K., Vanhaecke, F., Van Der Voort, P., Du Laing, G. (2019). Progress in hydrometallurgical technologies to recover critical raw materials and precious metals from low-concentrated streams. *Resources, Conservation and Recycling*, 142, 177-188. DOI: [10.1016/j.resconrec.2018.11.029](https://doi.org/10.1016/j.resconrec.2018.11.029). [Review article]
11. **Perez, J.P.H.**, Freeman, H.M., Schuessler, J.A., Benning, L.G. (2019). The interfacial reactivity of arsenic species with green rust sulfate (GR<sub>SO4</sub>). *Science of the Total Environment*, 648, 1161-1170. DOI: [10.1016/j.scitotenv.2018.08.163](https://doi.org/10.1016/j.scitotenv.2018.08.163).
12. **Perez, J.P.H.**, Freeman, H.M., Schuessler, J.A., Benning, L.G. (2019). Efficient removal of arsenic species by green rust sulfate (GR<sub>SO4</sub>). In: Y.G. Zhu, H. Guo, Bhattacharya, P., Ahmad, A., Bundschuh, J. & R. Naidu (eds.) "Environmental Arsenic in a Changing World As2018". Interdisciplinary Book Series: "Arsenic in the Environment—Proceedings". Series Editors: J. Bundschuh & P. Bhattacharya, CRC Press/Taylor and Francis (ISBN 978-1-138-48609-6), pp. 409-411. [Extended conference abstract]
13. **Perez, J.P.H.\***, Mangayayam, M.C.\*, Navaz Rubio, S., Freeman, H.M., Tobler, D.J., Benning, L.G. (2018). Intercalation of aromatic sulfonates in 'green rust' via ion exchange. *Energy Procedia*, 146, 179-187. DOI: [10.1016/j.egypro.2018.07.023](https://doi.org/10.1016/j.egypro.2018.07.023). [Extended conference abstract]
14. Leus, K., Folens, K., Nicomel, N.R., **Perez, J.P.H.**, Filippousi M., Meledina, M., Dîrtu, M.M., Turner, S., Van Tendeloo, G., Garcia, Y., Du Laing, G., Van Der Voort, P. (2018). Removal of arsenic and mercury species from water by covalent triazine framework encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles. *Journal of Hazardous Materials*, 353, 312-319. DOI: [10.1016/j.jhazmat.2018.04.027](https://doi.org/10.1016/j.jhazmat.2018.04.027).
15. Leus, K.\*, **Perez, J.P.H.\***, Folens, K., Meledina, M., Van Tendeloo, G., Du Laing, G., Van Der Voort, P. (2017). UiO-66-(SH)<sub>2</sub> as stable, selective and regenerable adsorbent for the removal of mercury from water under environmentally-relevant conditions. *Faraday Discussions*, 201, 145-161. DOI: [10.1039/C7FD00012J](https://doi.org/10.1039/C7FD00012J).
16. Addicoat, M., Bennett, T., Chapman, K., Denysenko, D., Dincă M., Doan, H., Easun, T., Eddaoudi, M., Farha, O., . . . **Perez, J.P.H.**, . . . Yaghi, O. (2017). New directions in gas sorption and separation with MOFs: General discussion. *Faraday Discussions*, 201, 175-194. DOI: [10.1039/C7FD90044A](https://doi.org/10.1039/C7FD90044A). [Discussion Paper]
17. Carraro, F., Chapman, K., Chen, Z., Dincă, M., Easun, T., Eddaoudi, M., Farha, O., . . . **Perez, J.P.H.**, . . . Yaghi, O. (2017). Catalysis in MOFs: General discussion. *Faraday Discussions*, 201, 369-394. DOI: [10.1039/C7FD90046E](https://doi.org/10.1039/C7FD90046E). [Discussion Paper]

#### **Conference presentations (first author contributions only)**

1. **Perez, J.P.H.**, Chan, A.L.H., Okhrymenko, M., Blukis, R., Mosselmans, J.F.W., Mayana, S., Roddatis, V., Benning, L.G. Competing immobilization pathways for arsenate and phosphate in Fe (II)-bearing minerals: Adsorption vs. structural incorporation. Goldschmidt 2021, July 5-9, 2021, oral presentation.
2. **Perez, J.P.H.**, Freeman, H.M., Brown, A.P., Van Genuchten, C.M., Tobler, D.J., Dideriksen, K., Benning, L.G. *Direct nanoscale observation of arsenic sequestration sites on green rust surfaces*. German Mineralogical Society (DMG) Poster Session, Nov. 30-Dec. 3, 2020, poster presentation. [virtual]

3. **Perez, J.P.H.**, Freeman, H.M., Brown, A.P., Van Genuchten, C.M., Tobler, D.J., Dideriksen, K., Benning, L.G. *Mapping arsenic-induced changes on the green rust surface at the nanoscale*. Goldschmidt 2019, Aug. 18-23, 2019, Barcelona (Spain), oral (flash talk) and poster presentation.
4. **Perez, J.P.H.**, Freeman, H.M., Brown, A.P., Van Genuchten, C.M., Tobler, D.J., Dideriksen, K., Benning, L.G. *Revealing the interfacial reactions between green rust and arsenic species at the nanoscale*. Clay Minerals Group Research in Progress Meeting, May 17, 2019, Newcastle (UK), poster presentation.
5. **Perez, J.P.H.**, Freeman, H.M., Hondow, N., Brown, A.P., Benning, L.G. *Interaction between 'green rust' and arsenic revealed by STEM-EDX elemental mapping and mono-EELS*. Microscopy Characterization of Organic-Inorganic Interfaces: Advances in imaging beam sensitive materials in the transmission electron microscope, Mar. 8-9, 2019, Berlin (Germany), poster presentation.
6. **Perez, J.P.H.**, Mangayayam, M.C., Navaz Rubio, S., Freeman, H.M., Tobler, D.J., Benning, L.G. *Intercalation of aromatic sulfonates in 'green rust' via ion exchange*. International Carbon Conference, Sept. 10-14, 2018, Reykjavik (Iceland), poster presentation
7. **Perez, J.P.H.**, Tobler, D.J., Freeman, H.M., Dideriksen, K., Cecatto, M., Benning, L.G. *Fate and role of arsenic during green rust formation via reductive dissolution of ferrihydrite*. Goldschmidt 2018, Aug. 12-17, 2018, Boston (USA), oral presentation.
8. **Perez, J.P.H.**, Freeman, H.M., Schuessler, J.A., Benning, L.G. *Efficient removal of arsenic species by green rust sulfate (GR<sub>SO4</sub>)*. 7<sup>th</sup> International Congress on Arsenic in the Environment - Environmental Arsenic in a Changing World (As2018), July 1-6, 2018, Beijing (China), oral presentation.
9. **Perez, J.P.H.**, Freeman, H.M., Schuessler, J.A., Benning, L.G. *The role of 'green rust' as a control on arsenic mobility in contaminated groundwaters*. Environmental Sciences: Water (Gordon Research Conference and Seminar), June 23-29, 2018, New Hampshire (USA), poster presentation.
10. **Perez, J.P.H.**, Navaz Rubio, S., Schuessler, J.A., Freeman, H.M., Benning, L.G. *Interfacial reactivity of green rust sulfates with metal contaminants*. Goldschmidt 2017, Aug. 13-18, 2017, Paris (France), poster presentation.
11. **Perez, J.P.H.**, Folen, K., Leus K., Meledina, M., Dîrtu, M.M., Garcia, Y., Van Tendeloo, G., Du Laing, G., Van Der Voort, P. *Supported  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles in CTF-1: A novel hybrid adsorbent for heavy metal sequestration*. New directions in porous crystalline materials: Faraday Discussion, June 5-7, 2017, Edinburgh (UK), poster presentation.

## SKILLS AND EXPERTISE

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- Laboratory skills: inorganic and organic material synthesis, iron mineral synthesis, wet laboratory experience in under strict anoxic conditions (i.e., glovebox)
- Analytical and material characterization skills: trace element analysis (ICP-OES/MS, AAS), powder X-ray diffraction (XRD), nitrogen sorption analysis (surface area and porosity), UV-Vis spectrophotometry, infrared (IR) spectroscopy, X-ray photoelectron spectroscopy (XPS)
- Advanced transmission electron microscopy: high-resolution TEM imaging, analytical spectroscopy (EDX, EELS), analysis of beam-sensitive materials
- Synchrotron techniques: X-ray absorption spectroscopy (XAS), pair distribution function (PDF) analysis
- Geochemical modelling in Geochemist Workbench
- Fieldwork: anoxic soil core sampling
- Language skills: Filipino (native), English (*bilingual* proficient)

## INVITED TALKS

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| 03.03.2021 | Arsenic removal from natural groundwater using green rust. London Geochemistry & Isotope Centre, University College London, United Kingdom. [Virtual]  |
| 01.14.2021 | Green rust formation and its reactivity with arsenic species. Interface Geochemistry Seminar Series, GFZ German Research Centre for Geosciences, Potsdam, Germany. <i>In connection to the Friedrich-Robert-Helmert-Award 2020</i> . [Virtual] |
| 05.24.2019 | Nano- and molecular-scale investigations of the interaction between green rust and arsenic species. School of Chemical and Process Engineering, University of Leeds, United Kingdom.   |



04.18.2018 Making the invisible, visible: Looking at green rust and arsenic species at the nano-scale.  
Department of Chemical Engineering, University of the Philippines Los Baños, Philippines.

## MENTORING EXPERIENCE

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### *Daily supervision at GFZ Potsdam*

04.2020 – 03.2021 Isabell Grün (MSc student), Research Assistant  
07.2019 – 08.2019 Marharyta Okhrymenko (high school student), Research Intern  
06.2019 – 08.2019 Alicia Li Han Chan (BSc student), Research Intern  
*Funded by DAAD Research Internship in Science and Engineering (RISE)*  
10.2018 – 12.2019 David Matzdorff (MSc student), Research Assistant

### *PhD co-supervision at GFZ Potsdam / Freie Universität Berlin*

11.2020 – Present Zhengzheng Chen, *funded by CSC PhD scholarship*  
10.2020 – Present Ruth Esther G. Delina, *funded by DAAD PhD scholarship*  
10.2020 – Present Alice Paskin, *funded by Helmholtz Recruiting Initiative Grant*

## PROFESSIONAL ENGAGEMENT AND OUTREACH ACTIVITIES

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### *Outreach*

08.2020 – Present Mentor, GradMAP Philippines (Graduate Mentorship and Assistance Program)  
06.2017 – 06.2019 At-large Organizer for Section 3.5, “Lange Nacht der Wissenschaften” (Long Night of Science), public open science day at the GFZ Potsdam  
11.2019 At-large Organizer and Media Documentation, Metal-Aid MSCA-ITN Tank Injection Experiment at NIRAS A/S  
11.2016 – Present Social Media Manager, MSCA-ITN METAL-AID

### *Conference and Meeting Convening*

01.2020 – Present Organizer and Convener, Interface Geochemistry Seminar Series (IGSS) at GFZ Potsdam (monthly seminar)  
07.2020 Session Chair and Main Convener, Virtual Goldschmidt 2021

### *Reviewer for Peer Reviewed Journals*

ACS Earth and Space Chemistry, ACS Omega, ACS Sustainable Chemistry & Engineering, Chemical Geology, Environment International, Environmental Chemistry, Environmental Science & Technology, Environmental Science: Nano, Environmental Science: Processes & Impacts, Geochemical Perspective Letters, Geochimica et Cosmochimica Acta, Geoderma, Journal of Environmental Quality

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### *Professional Membership*

American Chemical Society, European Association of Geochemistry, European Electron Microscopy Society, German Geological Society, German Mineralogical Society, Mineralogical Society of America, Royal Society of Chemistry, Royal Microscopical Society