

Contact:Email: [halbeisen@usf.edu](mailto:halbeisen@usf.edu)Address: USF College of Marine Science, 830 1<sup>st</sup> St SE, St Petersburg, FL 33701Education:

- 2021 – Present **Ph.D. Student in Marine Science**, Chemical Oceanography, University of South Florida.  
Advisor: Dr. Tim M. Conway.
- 2018 – 2021 **B.S. Oceanography**, Marine Ecosystem Science and Health, Texas A&M University,  
 Conferred: 2021. Advisor: Dr. Jessica N. Fitzsimmons

Positions Held & Research Experience:

- 4/2022 – Present **National Science Foundation Graduate Research Fellow**, Chemical Oceanography.  
 2/2022 – 2/2023 **GEOTRACES GP17-OCE Technician**, US GEOTRACES Program  
Chief Scientists: Dr. Jessica Fitzsimmons, Dr. Benjamin Twining, Dr. Greg Cutter  
*GP17 Super Technician: November 1, 2022 – January 27, 2023.*
- 8/2021 – Present **USF Graduate Research Assistant**, Advisor: Dr. Tim M. Conway.  
Committee: Dr. Greg De Souza, Dr. Phoebe Lam,  
 Dr. Amelia Shevenell, Dr. Don Chambers, Dr. Tim M. Conway.  
Project: Trace metal isotope systematics and cycling in the Arctic North Atlantic  
 (Dutch GApr16) and South Pacific Oceans (US GP17-OCE).
- 5/2020 – 8/2020 **National Science Foundation REU Intern**, Bigelow Laboratory for Ocean Sciences.  
Advisor: Dr. Benjamin Twining  
Project: Basin-scale relationships between dissolved, particulate, & cellular trace  
 metal micronutrient stoichiometries (GEOTRACES IDP2017 and R).
- 7/2019 – 7/2021 **Undergraduate Research Technician**, Texas A&M University.  
Advisor: Dr. Jessica Fitzsimmons  
Project: A multi-element overview of upper ocean trace metal cycling in the Pacific  
 Ocean: US GEOTRACES GP15 (SeaFAST based ICPMS analyses).

Cruise Participation: (82 days total)

- 12/2022 **R/V Roger Revelle (57 days)**, GEOTRACES GP17-OCE.  
 Papeete, Tahiti to Punta Arenas, Chile. *Duties:* U.S. Super-Technician responsible for  
 clean filtration of all water from the GTC Trace Metal Clean Rosette for all PIs; GTC  
 Rosette winch operator. GTC surface seawater sampler deployment & recovery operator.
- 11/2022 **R/V Roger Revelle (18 days)**, GEOTRACES GP17-OCE transit.  
 San Diego, CA to Papeete, Tahiti. *Duties:* GTC surface seawater sampler set up.
- 04/2021 **R/V Trident (2 days)**, Galveston, TX. *Duties:* Trace Metal Sampling.
- 06/2019 **R/V Point Sur (4 days)**. Chauvin, LA (LUMCON). *Duties:* SeaBird Console Co-operator.
- 03/2019 **R/V Trident (1 day)**. Undergraduate Galveston Bay cruise. Galveston, TX

Grants (\$182,500) & Awards:

- 2022 – 2027 *National Science Foundation Graduate Research Fellowship (\$138,000).*
- 2021 – 2024 *Graduate Student Success Fellow, University of South Florida (\$30,000).*
- 2021 – 2022 *Graduate Research Assistantship, USF College of Marine Science (\$10,000).*
- 2021 *Undergraduate Excellence in Oceanography Award, Texas A&M University (\$500).*
- 2021 *College of Geosciences Medallion Milestone Scholar, Texas A&M University.*

2020 – 2021	<i>Scherck Scholarship in Oceanography</i> , Texas A&M University (\$4,000).
2019	<i>Schade Scholar</i> , Department of Oceanography, Texas A&M University.
2016 – 2018	<i>President's Honor Roll</i> , Austin Community College.

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#### Publications:

1. Halbeisen D.J. 2024. A Young Scientist's Perspective on GEOTRACES. *Oceanography*, <https://doi.org/10.5670/oceanog.2024.403>.

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#### Presentations:

1. Landing W.M, **Halbeisen D.J**, Conway T.M, Dick K, Fitzsimmons J.N, Hawco N.J, Resing J, Sedwick P. (2024). Decadal Changes (2005 vs. 2022) in Trace Element Inventories in the South Pacific and Southern Ocean Waters. Ocean Sciences Meeting 2024, New Orleans, LA. Oral Presentation.
  2. Fitzsimmons J.N, Dick K, Conway T.M, **Halbeisen D.J**, John S, Bettina S, Sedwick P, Weiss G, Resing J, Cutter G.A, Twining B.S. (2024). An Overview of the Hydrography, Macronutrient, and Dissolved Metal Distributions along the U.S. GEOTRACES GP17-OCE Section to the South Pacific and Southern Oceans. Ocean Sciences Meeting 2024, New Orleans, LA. Oral Presentation.
  3. Dick K, **Halbeisen D.J**, Sohst B, Weiss G, Middleton J, German C, Jenkins B, Resing J, Sedwick P, John S, Conway T.M, Fitzsimmons J.N. (2024). Flux and Transport of Hydrothermal Iron and Manganese from the Pacific Antarctic Ridge. Ocean Sciences Meeting, New Orleans, LA. Oral Presentation.
  4. Lanning N.T, Sieber M, **Halbeisen D.J**, Weiss G, Bian X, Yang S, German C, Jenkins W, Hatta M, Conway TM, Fitzsimmons J.N. (2022). The cycling of dissolved iron, iron isotopes, and manganese in the central Pacific Ocean: insights from the U.S. GEOTRACES Pacific Meridional Transect (GP15). Gordon Research conference, Manchester, NH. Poster Presentation.
  5. **Halbeisen**, D.J, Middag, R, Conway, T.M. (2023). Nickel isotopes in the Denmark Strait: a 'Rosetta Stone' of global oceanic nickel biogeochemistry. Chemical Oceanography Gordon Research Conference, Manchester, New Hampshire. Poster Presentation.
  6. Dick K, Conway T.M, John S, Resing J, Sedwick P, Sohst B, Weiss G, **Halbeisen D.J**, Fitzsimons J.N. (2023). Southern Ocean Hydrothermal Iron and Manganese Supply from the Pacific Antarctic Ridge. Goldschmidt, Lyon, France. Oral Presentation.
  7. **Halbeisen**, D.J, Middag, R, Conway, T.M. (2022). Nickel isotopes in the Denmark Strait: a 'Rosetta Stone' of global oceanic nickel biogeochemistry. International GEOTRACES Summer School 2022, Bremerhaven, Germany. Poster Presentation.
  8. Lanning N.T, Sieber M, **Halbeisen D.J**, Weiss G, Bian X, Yang S, German C, Jenkins W, Hatta M, Conway TM, Fitzsimmons J.N. (2022). The cycling of dissolved iron, iron isotopes, and manganese in the central Pacific Ocean: insights from the U.S. GEOTRACES Pacific Meridional Transect (GP15). Ocean Sciences Meeting, Honolulu, HI. Virtual. Oral Presentation.
  9. **Halbeisen**, D.J, and Twining, B.S. (2022). The Power of Three: An investigation of basin-scale relationships between dissolved, particulate, & cellular trace metal micronutrient stoichiometries of the Atlantic and Pacific Oceans. USF CMS Graduate Student Symposium, St. Petersburg, FL. Poster Presentation.
  10. **Halbeisen**, D.J, Lanning, N.T, Till, C.P, Fitzsimmons, J.N. (2020). A multielement overview of upper ocean trace metal cycling in the Pacific Ocean: GEOTRACES GP15 PMT demi stations. Ocean Sciences Meeting 2020, San Diego, CA. Poster Presentation.
  11. Fitzsimmons, J.N, Lanning, N.T, **Halbeisen**, D.J, Till, C.P, Hatta, M, Weiss, G.A, Conway, T.M, Sieber, M, John, S.G, Yang, S-C, and Bian, X. (2020). A multi-element perspective on Pacific dissolved trace metal cycling from the GEOTRACES GP15 PMT cruise. Ocean Sciences Meeting 2020, San Diego, CA. Oral Presentation.
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#### Service & Leadership:

2024 - Present      **Volunteer: Water Warrior Alliance.**

Community Water Goat cleanup group, focusing on trash retrieval and data collection efforts in the tributary rivers and harbors of Tampa Bay.

02/2024      **Volunteer: Saint Petersburg Science Festival.**

	Taught general oceanography, fish biology, and sedimentology to the public, including elementary, middle, and high schoolers from greater Pinellas County.
02/2023	<b>Volunteer: Saint Petersburg Science Festival.</b> Taught Chemical Oceanography to the public, including elementary, middle, and high school students from greater Pinellas County.
08/2022	<b>Chemical Oceanography Faculty Search Committee, College of Marine Science.</b> Graduate student liaison during the new-hire process.
12/2021 – 02/2022	<b>Co-coordinator: College of Marine Science Graduate Student Symposium.</b> Partnered with local businesses, CMS, and USF to host 23 presentations.
08/2021 – 08/2022	<b>Coordinator: USF Marine Metal and Trace Element Lab Discussion Group.</b> Planned, coordinated, and lead weekly literature discussions.
2019 – 2020	<b>Vice President of Operations: Texas A&amp;M Crew / Rowing Club</b> Lead all operations of the Texas A&M Rowing Club. Size of team: 65. Scheduled regattas, facilitated safe interstate travel, and oversaw financial responsibilities/equipment maintenance.
06/2019	<b>Counselor: Texas A&amp;M College of Geosciences GeoX</b> Immersed high school students in the opportunities available in the College of Geosciences during the Summer of 2019.
2019 – 2021	<b>Texas A&amp;M Undergraduate Geosciences Recruitment Team</b> Lead prospective students on campus tours and answered questions regarding student life in the College of Geosciences.
03/2019	<b>Project lead: The Big Event</b> Small group leader in the nation's largest annual community service initiative.

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#### Student Mentorships:

2023 – Present	Andreas Norlin, Graduate Researcher at the University of South Florida. Volunteered position fulfilled to help incoming graduate students acclimate to their first year of studies at the College of Marine Science.
2023 – Present	Emma Chesteng, Undergraduate Researcher, Junior at The University of Tampa. Lead undergraduate training in SeaFAST preconcentration Seawater analysis. Revitalized SeaFAST internal chelating components after 3 years of inactivity.

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#### Workshops Attended:

03/2024	USF, Spring Workshop: Analysis and Visualization of Natural Sciences Data with R
03/2024	University of South Florida, Spring Workshop: Presenting Your Research Poster
02/2024	University of South Florida, Spring Workshop: Designing Your Research Poster
02/2024	University of South Florida, Spring Workshop: R Data Visualization
02/2024	University of South Florida, Spring Workshop: R Data Analysis
01/2024	University of South Florida, Spring Workshop: Introduction to R
07/2022	International GEOTRACES Summer School: Polar Parameters: Bremerhaven, Germany
05/2022	U.S. GEOTRACES Supertech Trace Metal Sampling Training: Norfolk, Virginia
04/2022	U.S. GEOTRACES GP17-OCE Planning Meeting: Norfolk, Virginia

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#### Memberships:

2020 – Present	<b>The Oceanography Society.</b>
2019 – Present	<b>American Geophysical Union.</b>
2019 – Present	<b>Association for the Sciences of Limnology and Oceanography.</b>