

**NSF BIOGRAPHICAL SKETCH**

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**IDENTIFYING INFORMATION:**

NAME: Lin, Yajuan

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ORCID: 0000-0002-9057-9321

POSITION TITLE: Assistant Professor

**ORGANIZATION AND LOCATION:** Texas A&M University Corpus Christi, Corpus Christi, TX, USA

**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	DATE RECEIVED	FIELD OF STUDY
Institut Universitaire Européen de la Mer (IUEM), Brest, Plouzané, France	Postdoctoral Fellow	2016 - 2018	Biogeochemistry
Duke University, Durham, NC, USA	Postdoctoral Fellow	2013 - 2015	Biogeochemistry
Duke University, Durham, NC, USA	PHD	05/2013	Marine Science and Conservation
Peking University, Beijing, Beijing, China	BS	06/2006	Geology/Biology (double major)

**Appointments and Positions**

2022 - present Assistant Professor, Texas A&M University Corpus Christi, Department of Life Sciences, Corpus Christi, TX, USA

2020 - 2022 Assistant Professor, Duke Kunshan University, Division of Natural and Applied Sciences, Kunshan, Not Applicable, N/A, China

2018 - 2020 Research Scientist, Duke University, Nicholas School of the Environment, Durham, NC, USA

**Products****Products Most Closely Related to the Proposed Project**

1. Wang S, Lin Y, Gifford S, Eveleth R, Cassar N. Linking patterns of net community production and marine microbial community structure in the western North Atlantic. The ISME Journal. 2018 June 22; 12(11):2582-2595. Available from: <https://www.nature.com/articles/s41396-018-0163-4> DOI: 10.1038/s41396-018-0163-4
2. Lin Y, Moreno C, Marchetti A, Ducklow H, Schofield O, Delage E, Meredith M, Li Z, Eveillard D, Chaffron S, Cassar N. Decline in plankton diversity and carbon flux with reduced sea ice extent along the Western Antarctic Peninsula. Nature Communications. 2021 August 16; 12(1):-

. Available from: <https://www.nature.com/articles/s41467-021-25235-w> DOI: 10.1038/s41467-021-25235-w

3. Lin Y, Cassar N, Marchetti A, Moreno C, Ducklow H, Li Z. Specific eukaryotic plankton are good predictors of net community production in the Western Antarctic Peninsula. *Scientific Reports*. 2017 November 01; 7(1):- . Available from: <https://www.nature.com/articles/s41598-017-14109-1> DOI: 10.1038/s41598-017-14109-1
4. Lin Y, Gifford S, Ducklow H, Schofield O, Cassar N. Towards Quantitative Microbiome Community Profiling Using Internal Standards. *Applied and Environmental Microbiology*. 2019 March; 85(5):- . Available from: <https://journals.asm.org/doi/10.1128/AEM.02634-18> DOI: 10.1128/AEM.02634-18
5. Gorsky G, Bourdin G, Lombard F, Pedrotti M, Audrain S, Bin N, Boss E, Bowler C, Cassar N, Caudan L, Chabot G, Cohen N, Cron D, De Vargas C, Dolan J, Douville E, Elineau A, Flores J, Ghiglione J, Haëntjens N, Hertau M, John S, Kelly R, Koren I, Lin Y, Marie D, Moulin C, Moucherie Y, Pesant S, Picheral M, Poulain J, Pujo-Pay M, Reverdin G, Romac S, Sullivan M, Trainic M, Tressol M, Troublé R, Vardi A, Voolstra C, Wincker P, Agostini S, Banaigs B, Boissin E, Forcioli D, Furla P, Galand P, Gilson E, Reynaud S, Sunagawa S, Thomas O, Thurber R, Zoccola D, Planes S, Allemand D, Karsenti E. Expanding Tara Oceans Protocols for Underway, Ecosystemic Sampling of the Ocean-Atmosphere Interface During Tara Pacific Expedition (2016–2018). *Frontiers in Marine Science*. 2019 December 11; 6:- . Available from: <https://www.frontiersin.org/article/10.3389/fmars.2019.00750/full> DOI: 10.3389/fmars.2019.00750

*Other Significant Products, Whether or Not Related to the Proposed Project*

1. Larkin A, Blinberry S, Howes C, Lin Y, Loftus S, Schmaus C, Zinser E, Johnson Z. Niche partitioning and biogeography of high light adapted *Prochlorococcus* across taxonomic ranks in the North Pacific. *The ISME Journal*. 2016; 10(7):1555-1567. Available from: <https://www.nature.com/articles/ismej2015244> DOI: 10.1038/ismej.2015.244
2. Johnson Z, Lin Y. *Prochlorococcus* : Approved for export. *Proceedings of the National Academy of Sciences*. 2009 June 30; 106(26):10400-10401. Available from: <https://pnas.org/doi/full/10.1073/pnas.0905187106> DOI: 10.1073/pnas.0905187106
3. Ribalet F, Swalwell J, Clayton S, Jiménez V, Sudek S, Lin Y, Johnson Z, Worden A, Armbrust E. Light-driven synchrony of *Prochlorococcus* growth and mortality in the subtropical Pacific gyre. *Proceedings of the National Academy of Sciences*. 2015 June 15; 112(26):8008-8012. Available from: <https://pnas.org/doi/full/10.1073/pnas.1424279112> DOI: 10.1073/pnas.1424279112
4. Lin Y, Gazsi K, Lance V, Larkin A, Chandler J, Zinser E, Johnson Z. *In situ* activity of a dominant *Prochlorococcus* ecotype (eHL-II) from rRNA content and cell size. *Environmental Microbiology*. 2013 June; :n/a-n/a. Available from: <https://onlinelibrary.wiley.com/doi/10.1111/1462-2920.12135> DOI: 10.1111/1462-2920.12135
5. Hunt D, Lin Y, Church M, Karl D, Tringe S, Izzo L, Johnson Z. Relationship between Abundance and Specific Activity of Bacterioplankton in Open Ocean Surface Waters. *Applied and Environmental Microbiology*. 2013 January; 79(1):177-184. Available from: <https://journals.asm.org/doi/10.1128/AEM.02155-12> DOI: 10.1128/AEM.02155-12

### **Synergistic Activities**

1. International collaboration: participated in large scale international cruises including 1) TARA Pacific (coral reef focused) and 2) Antarctic Circumnavigation Expedition, involving researchers from 22 countries.
2. Reviewer: National Science Foundation (OPP's Antarctic Sciences Section), the North Pacific Research Board (NPRB), *The ISME Journal*, *Microbiome*, *Limnology and Oceanography*, *Frontiers Microbiology*, *Aquatic Microbial Ecology*, *Scientific Reports*, *Journal of Geophysical Research*, *Deep Sea Research Part II*.
3. Undergraduate mentoring: two NSF REU students and 6 undergraduate students for senior thesis.
4. Science communication: TARA Pacific Expedition "meet a scientist on board" to allow students and teachers to explore the scientific instruments used aboard the schooner TARA, in Lorient, France (2016) and Boston, USA (2018).
5. K-12 education: lecture on 'Phytoplankton and the Ocean Carbon Cycle' for Miss Katie Doyle's Ocean's Class program, with asynchronous session sent to 20 classrooms across the US.

### **Certification:**

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Lin, Yajuan in SciENCv on 2023-06-08 19:05:08