

Mark C. Bitter, PhD

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ACADEMIC POSITIONS

Postdoctoral Research Scholar, Stanford University 2020–Present
Advisors: Dmitri Petrov and Paul Schmidt (University of Pennsylvania)

EDUCATION

University of Chicago 2015–2020
Ph.D. in Ecology and Evolution; Advisor: Catherine Pfister

University California, Santa Barbara 2010–2014
B.S. in Aquatic Biology with Distinction ; GPA: 3.5/4.0
– Senior Honors Thesis Advisor: Gretchen Hofmann

PUBLICATIONS AND PRESENTATIONS

Peer-Reviewed Journal Articles

Bitter M.C., Kapsenberg L., Gattuso J.-P., and Pfister C.A. (2019). Standing genetic variation fuels rapid adaptation to ocean acidification. *Nature Communications*. **10**, 5821. doi:10.1038/s41467-019-13767-1.

Kapsenberg L., Miglioli A., **Bitter M.C.**, Tambutté E., Dumollard R., and Gattuso J.-P (2018). Ocean fluctuations affect mussel larvae at key developmental transitions. *Proceedings of the Royal Society B.: Biological Sciences*. **285**, 1893. doi: 10.1098/rspb.2018.2381

Manuscripts forthcoming

Bitter M.C., Kapsenberg L., Silliman K., Gattuso J.-P., and Pfister C.A. pH fluctuation amplitude and predictability shape the plastic response to ocean acidification. *in review*.

Kapsenberg L.*, **Bitter M.C.***, Miglioli A., Dumollard R., and Gattuso J.-P. The molecular basis of adaptation to ocean acidification. *in preparation*. (* = co-first authors)

GRANTS IN SUPPORT OF RESEARCH

- **Hinds Research Grant (The University of Chicago) (\$2,500)** 2019
A field-based approach to studying adaptive responses to ocean global change
- **University of Chicago Grad Council Travel Award (\$600)** 2018
- **France Chicago Center FAACTs Award (\$24,900; co-authors: C.A. Pfister and *M.C. Bitter)** 2017
Exploring adaptive responses to pH variability in the face of ocean acidification
- **Lewis and Clark Fund for Field Research (American Philosophical Society) (\$5,000)** 2016
Detecting the role of local community interactions in mediating global ocean change
- **Undergraduate Research and Creative Activities Grant (UC Santa Barbara) (\$750)** 2013
Assessing pH variability its effect on calcification in local marine communities
- **Santa Barbara Coastal Fund's Minor Funding Grant (\$750)** 2013
Assessing pH variability its effect on calcification in local marine communities

FELLOWSHIPS AND AWARDS

- **National Science Foundation Graduate Research Fellowship** 2017–2020
- **Excellence in Teaching Award**, University of Chicago 2018
- **Friday Harbor Labs Research Fellowship**, University of Washington 2016
- **Distinction in Major**, University of California, Santa Barbara 2014
- **Departmental Honors Program**, University of California, Santa Barbara 2014
- **National Science Foundation Research Experience for Undergraduates Internship** 2013

PRESENTATIONS OF RESEARCH

Conference Presentations

- Ocean Sciences Annual Meeting, talk 2020
- Midwest Population Genetics Annual Meeting, talk 2019
- Ocean Global Change Biology Gordon Research Conference, poster 2018
- Ocean Global Change Biology Gordon Research Seminar, poster 2018
- Advances in Marine Mussel Research Annual Meeting, poster 2017
- UC Santa Barbara Undergraduate Research Symposium, poster 2014
- Western Society of Naturalists Annual Meeting, poster 2013

Seminars

- University of Chicago Darwin's Weekly Seminar 2019
- University of Chicago Energy and Climate Seminar 2019
- Oceanographic Laboratory of Villefranche, France 2016

TEACHING

- **Teaching Assistant**, University of Chicago Fall 2019
Evolutionary Adaptation
- **Teaching Assistant**, University of Chicago Fall 2018
Ecology and Conservation
- **Teaching Assistant**, University of Chicago Winter 2018
Marine Ecology

PROFESSIONAL SERVICE

- **Peer Review:** *Molecular Ecology*, *ICES Journal of Marine Science*, *Proceedings of the Royal Society B*, *Marine Biology*
- **Conference Chair:** Ocean Global Change Biology Gordon Research Seminar, 2022

OUTREACH

- Hughes Elementary Family STEM Night: Presenter 2019
- French American Science Fair: Presenter 2019
- POSSE Foundation Chicago: Academic Writing Coach 2018
- Makah Tribe High School Summer Intern Program: Guest Instructor 2018