


Stanford



Mark Christopher Bitter

Postdoctoral Scholar, Biology

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Chicago (2020)
- Bachelor of Science, University of California Santa Barbara , Aquatic Biology (2014)
- PhD, The University of Chicago , Ecology and Evolution (2020)

STANFORD ADVISORS

- Dmitri Petrov, Postdoctoral Faculty Sponsor

LINKS

- Personal Website: <https://markcbitter.weebly.com/>

Publications

PUBLICATIONS

- **Evolutionary adaptation under climate change: *Aedes* demonstrates potential to adapt to warming.** *bioRxiv : the preprint server for biology*
Couper, L. I., Dodge, T. O., Hemker, J. A., Kim, B. Y., Exposito-Alonso, M., Brem, R. B., Mordecai, E. A., Bitter, M. C.
2024
- **Continuously fluctuating selection reveals fine granularity of adaptation.** *Nature*
Bitter, M. C., Berardi, S., Oken, H., Huynh, A., Lappo, E., Schmidt, P., Petrov, D. A.
2024
- **Wide-ranging consequences of priority effects governed by an overarching factor.** *eLife*
Chappell, C. R., Dhami, M. K., Bitter, M. C., Czech, L., Herrera Paredes, S., Barrie, F. B., Calderon, Y., Eritano, K., Golden, L., Hekmat-Scafe, D., Hsu, V., Kieschnick, C., Malladi, et al
2022; 11
- **Molecular basis of ocean acidification sensitivity and adaptation in *Mytilus galloprovincialis*.** *iScience*
Kapsenberg, L., Bitter, M. C., Miglioli, A., Aparicio-Estalella, C., Pelejero, C., Gattuso, J., Dumollard, R.
2022; 25 (8): 104677
- **Fluctuating selection and global change: a synthesis and review on disentangling the roles of climate amplitude, predictability and novelty.** *Proceedings. Biological sciences*
Bitter, M. C., Wong, J. M., Dam, H. G., Donelan, S. C., Kenkel, C. D., Komoroske, L. M., Nickols, K. J., Rivest, E. B., Salinas, S., Burgess, S. C., Lotterhos, K. E.
2021; 288 (1957): 20210727
- **Magnitude and Predictability of pH Fluctuations Shape Plastic Responses to Ocean Acidification.** *The American naturalist*
Bitter, M. C., Kapsenberg, L., Silliman, K., Gattuso, J. P., Pfister, C. A.
2021; 197 (4): 486-501

- **Standing genetic variation fuels rapid adaptation to ocean acidification.** *Nature communications*
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2019; 10 (1): 5821
- **Ocean pH fluctuations affect mussel larvae at key developmental transitions.** *Proceedings. Biological sciences*
Kapsenberg, L., Miglioli, A., Bitter, M. C., Tambutté, E., Dumollard, R., Gattuso, J. P.
2018; 285 (1893): 20182381