Stanford



Mark Christopher Bitter

Basic Life Research Scientist, Biology

Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

PROFESSIONAL EDUCATION

- PhD, The University of Chicago , Ecology and Evolution (2020)

LINKS

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

Publications

PUBLICATIONS

- **Evolutionary adaptation under climate change: Aedes sp. demonstrates potential to adapt to warming.** *Proceedings of the National Academy of Sciences of the United States of America*
  Couper, L. I., Dodge, T. O., Hemker, J. A., Kim, B. Y., Exposito-Alonso, M., Brem, R. B., Mordecai, E. A., Bitter, M. C.
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- **Evolutionary adaptation under climate change:Aedessp. 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*
  Bitter, M. C., Kapsenberg, L., Gattuso, J. P., Pfister, C. A.
  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