

**Name:** Brian M. Hopkinson

**Address:**

University of Georgia  
Department of Marine Sciences  
Athens, GA 30602  
Phone: (706) 542-7880, email: [bmhopkin@uga.edu](mailto:bmhopkin@uga.edu)

**A. Professional Preparation**

2001 B.S., Chemistry. The College of William and Mary  
2007 Ph.D., Oceanography. Scripps Institution of Oceanography - University of California, San Diego  
2007- 2010 Postdoctoral studies, Department of Geosciences, Princeton University

**B. Appointments**

August 2010 - Assistant Professor, Department of Marine Sciences, University of Georgia  
2007-2010 Postdoctoral Researcher, Department of Geosciences, Princeton University  
2001-2007 Research Assistant, Scripps Institution of Oceanography-UCSD

**C. Publications**

**Five Most Relevant Publications**

Oakley, C.A., G.W. Schmidt, and **B.M. Hopkinson**. 2014. Thermal responses of *Symbiodinium* photosynthetic carbon assimilation. *Coral Reefs* 33: 501-512.

Oakley, C.A., **B.M. Hopkinson**, and G.W. Schmidt. 2014. Mitochondrial terminal alternative oxidase and its enhancement by thermal stress in the coral symbiont *Symbiodinium*. *Coral Reefs* 33: 501-512.

**Hopkinson, B.M.**, C. Meile, C. Shen. 2013. Quantification of extracellular carbonic anhydrase in two marine diatoms and investigation of its role. *Plant Physiology* 162: 1142-1152.

**Hopkinson, B.M.** 2013. A chloroplast pump model for the CO<sub>2</sub> concentrating mechanism in the diatom *Phaeodactylum tricornutum*. *Photosynthesis Research* doi. 10.1007/s11120-013-9954-7.

**Hopkinson, B.M.**, C.L. Dupont, A.E. Allen, and F.M.M. Morel. 2011. Efficiency of the CO<sub>2</sub> concentrating mechanism of marine diatoms. *Proceedings of the National Academy of Sciences USA*. 108: 3830-3837.

**Five Other Significant Publications**

Shi, D., Y. Xu, **B.M. Hopkinson**, F.M.M. Morel. 2010. Effect of ocean acidification on iron availability to marine phytoplankton. *Science* 327: 676-679.

Samukawa, M., C. Shen, **B.M. Hopkinson**, Y. Matsuda 2013. Localization of putative carbonic anhydrases in the marine diatom, *Thalassiosira pseudonana*. *Photosynthesis Research* doi. 10.1007/s11120-014-9967-x

Moran M.A., B. Satinsky, S.M. Gifford, H. Luo, A. Rivers, L.K. Chan, J. Meng, B.P. Durham, C. Shen, V.A. Varalijay, C.B. Smith, P.L. Yager, **B.M. Hopkinson**. 2013. Sizing up Metatranscriptomics *ISME J.* 7: 237-243.

Hopkinson, B.M., and K.A. Barbeau. 2012. Iron transporters in marine prokaryotic genomes and metagenomes. *Environmental Microbiology*. 14: 114-128.

Hopkinson, B.M., Y. Xu, D. Shi, P.J. McGinn, and F.M.M. Morel. 2010. The effect of CO<sub>2</sub> on the photosynthetic physiology of phytoplankton in the Gulf of Alaska. *Limnology and Oceanography* 55: 2011-2024.

#### **D. Synergistic Activities**

- Organizing committee member for the Horizons Symposium 2014, an international meeting for young to mid career scientists sponsored by the US, Mexican, and Canadian National Academies of Sciences.
- Development of formal and informal lesson plans on ocean acidification for use in Georgia schools and informal education centers
- Redesign of a graduate Biological Oceanography course to incorporate a significant modeling component designed to improve learning and teach quantitative and computational skills
- Kavli Fellow, US National Academy of Sciences, 2010, 2014; Alfred P. Sloan Research Fellow 2014-2016
- Development of methods and software (publically available on my website) to analyze inorganic carbon processing in phytoplankton

#### **E. Collaborators and Other Affiliations**

**i. Collaborators:** Andrew Allen (JCVI), Kathy Barbeau (SIO-UCSD), Michael Bender (Princeton), Kristen Buck (USF), Wei-jun Cai (Delaware), Chris Dupont (JCVI), William Fitt (UGA), Yusuke Matsuda (Kwansei Gakuin U., Japan), Christof Meile (UGA), Francois Morel (Princeton), Greg Mitchell (SIO-UCSD), Gregory Schmidt (UGA), Bess Ward (Princeton), Yan Xu (Princeton)

**ii. Co-editors:** none

#### **iii. Graduate and Postdoctoral Advisors:**

Graduate Advisor: Kathy Barbeau, SIO-UCSD

Postdoctoral Advisor: Francois M. M. Morel, Princeton University

#### **iv. Thesis Advisor and Postgraduate Scholar Sponsor:**

Chen Shen, Anna Tansik (Ph.Ds. in progress, UGA)

Yuening Ma (M.S. co-Advisor, UGA)