

ARIANE VERDY –

Assistant Research Oceanographer
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(a) Professional Preparation:

École Polytechnique de Montréal	Engineering Physics	B.Eng. 2002
MIT–WHOI Joint Program in Oceanography	Physical Oceanography	S.M. 2006
MIT–WHOI Joint Program in Oceanography	Physical Oceanography	Ph.D. 2008
MIT Earth Systems Initiative	Postdoctoral Fellow	2007–2008
UCLA Ecology & Evolutionary Biology Dept.	Postdoctoral Scholar	2008–2009

(b) Appointments:

2012–present:	Assistant Research Oceanographer, Scripps Institution of Oceanography
2011:	Lecturer in Environmental Science & Engineering, California Institute of Technology
2010–2011:	Staff Research Associate, Scripps Institution of Oceanography
2002–2007:	Graduate Research Assistant, MIT
2005–2006:	Teaching Assistant, MIT

(c) Publications:

Most pertinent to proposed project

- A. Verdy, S. Dutkiewicz, M. Follows, J. Marshall and A. Czaja (2007). Carbon dioxide and oxygen fluxes in the Southern Ocean: Mechanisms of interannual variability. *Global Biogeochemical Cycles*, vol. 21 (2), GB2020. <http://dx.doi.org/10.1029/2006GB002916>
- A. Verdy, J. Marshall and A. Czaja (2006). Sea surface temperature variability along the path of the Antarctic Circumpolar Current. *Journal of Physical Oceanography*, vol. 36 (7), 1317–1331. <http://dx.doi.org/10.1175/JPO2913.1>
- A. Verdy, M. Follows, and G. Flierl (2009). Optimal phytoplankton cell size in an allometric model. *Marine Ecology Progress Series*, vol. 379, 1–12. <http://dx.doi.org/10.3354/meps07909>
- A. Verdy and H. Caswell (2008). Sensitivity analysis of reactive ecological dynamics. *Bulletin of Mathematical Biology*, vol. 70 (6), 1634–1659. <http://dx.doi.org/10.1007/s11538-008-9312-7>

Other relevant publications

- A. Verdy (2010). Modulation of predator-prey interactions by an Allee effect. *Ecological Modelling*, vol. 221, 1098–1107. <http://dx.doi.org/10.1016/j.ecolmodel.2010.01.005>
- A. Verdy and P. Amarasekare (2010). Alternative stable states in communities with intraguild predation. *Journal of Theoretical Biology*, vol. 262, 116–128. <http://dx.doi.org/10.1016/j.jtbi.2009.09.011>
- A. Verdy and G. Flierl (2008). Evolution and social behavior in krill. *Deep-Sea Research II*, vol. 55 (3–4), 472–484. <http://dx.doi.org/10.1016/j.dsr2.2007.11.001>

(d) Synergistic Activities:

- Participated in the workshop on Ocean Ecologies and their Physical Habitats in a Changing Climate at the Mathematical Biology Institute, OH (2011)
- Participated in the Workshop for young researchers in mathematical biology at the Mathematical Biology Institute, OH (2008)
- Judged student presentations and posters at the ESA Annual Meeting (2008) and the AGU/ASLO Ocean Sciences Meeting (2008)
- Nominated to the Martin Family Society of Fellows for Sustainability at MIT (2004–2005)
- Coordinated the MIT Oceanography Seminar Series (2004–2005), and co-organized the annual retreat for the Program in Oceans, Atmosphere and Climate at MIT (2004–2007)

(e) Collaborators & Other Affiliations:

Recent Collaborators and Co-Authors

Priyanga Amarasekare, UCLA

Hal Caswell, WHOI

Bruce Cornuelle, SIO

Arnaud Czaja, Imperial College

Stephanie Dutkiewicz, MIT

Glenn Flierl, MIT

Mick Follows, MIT

Markus Jochum, NCAR

John Marshall, MIT

Matthew Mazloff, SIO

Graduate and Postdoctoral Advisors

Priyanga Amarasekare, UCLA (postdoc host)

Glenn Flierl, MIT (graduate advisor)

Mick Follows, MIT (postdoc host)