

Carly A. Strasser, PhD

CONTACT INFORMATION

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EDUCATION

Massachusetts Institute of Technology/Woods Hole Oceanographic Institution

Ph.D. Biological Oceanography, March 2008
Dissertation: “[Metapopulation Dynamics of the Softshell Clam, *Mya arenaria*](#)”

University of San Diego

B.A., Marine Science with Biology emphasis, Summa Cum Laude, May 2001
Thesis: “Population structure of the Antarctic krill, *Euphausia superba*”

RESEARCH & PROFESSIONAL EXPERIENCE

Gordon & Betty Moore Foundation, Palo Alto CA

Program Officer March 2015 - Present

Contribute to strategy development, implementation and management of the [Data-Driven Discovery Initiative](#). This includes management of grants in the DDD Initiatives portfolio; planning and overseeing grantee meetings, collaborations and partnerships; partnering with grantees and creating linkages that add value to the field; and tracking trends and synthesizing knowledge relevant to the initiative issue areas. Separate from the DDD Initiative, I source and develop grants related to improving how science is conducted, including projects focused on data management, scholarly communication, and synthesis studies.

California Digital Library, University of California Office of the President, Oakland CA

Research Data Specialist July 2011 - March 2015

Operated as a researcher liaison by providing guidance and consultation about data stewardship to UC researchers; lead workshops and give seminars on the value of data management for scientists; promote open science and open data within the UC and beyond. [Dash](#) data curation platform product manager; DMPTool (dmptool.org) project team member. Supervisor, CLIR/DLF Post-doctoral fellow in data curation. Communications and outreach coordinator: maintained blog and social media accounts. Briefly seconded by DataCite (datacite.org) to serve as Manager of Strategic Partnerships.

DataONE, based at National Center for Ecological Analysis & Synthesis, UC Santa Barbara

Postdoctoral Associate September 2010 - August 2011

Engaged the scientific and data management community in the Data Observation Network for Earth ([DataONE](#)), which is cyber-infrastructure that will provide universal access to environmental and ecological data. Included conducting research related to data education, workshop organization, and participation in working groups to engage the community.

University of Alberta & Dalhousie University, Edmonton AB & Halifax NS, Canada

Postdoctoral Investigator January 2009 - October 2010

Used theoretical and experimental approaches to understand the role of life stage in establishment of invasive copepods introduced via ballast water.

Woods Hole Oceanographic Institution, Woods Hole MA

Postdoctoral Investigator

March 2008 - December 2008

Developed demographic models of the endangered North Atlantic right whale population based on mark-recapture data.

PUBLICATIONS

C. Strasser. 2016. Preprints: The Bigger Picture. *The Winnower* 3:e146955.56313. [10.15200/winn.146955.56313](https://doi.org/10.15200/winn.146955.56313) (Open Access).

C Strasser and 22 others. 2016. Preprints for the life sciences. *Science* 352: 6288. pp. 889-901. [10.1126/science.aaf9133](https://doi.org/10.1126/science.aaf9133) (Open Access).

C Strasser. 2015. Research Data Management: A Primer Publication of the National Information Standards Organization. Available for [download as PDF from www.niso.org](#) (Open Access).

J Kratz and **C Strasser**. 2015. Making data count. *Nature Scientific Data* 2: 150039. [dx.doi.org/10.1038/sdata.2015.39](https://doi.org/10.1038/sdata.2015.39) (Open Access).

J Kratz and **C Strasser**. 2015. Researcher Perspectives on Publication and Peer Review of Data. *PLoS ONE* 10(2): e0117619. [dx.doi.org/10.1371/journal.pone.0117619](https://doi.org/10.1371/journal.pone.0117619) (Open Access).

J Lin and **C Strasser**. 2014. Recommendations for the Role of Publishers in Access to Data. *PLoS Biology* 12(10): e1001975. [doi:10.1371/journal.pbio.1001975](https://doi.org/10.1371/journal.pbio.1001975) (Open Access).

J Kratz and **C Strasser**. 2014. Data publication consensus and controversies. *F1000Research* 3:94. [doi:10.12688/f1000research.3979.3](https://doi.org/10.12688/f1000research.3979.3) (Open Access).

C Strasser, J Kunze, S Abrams, and P Cruse. 2014. DataUp: A tool to help researchers describe and share tabular data. *F1000 Research* 3:6. [doi: 10.12688/f1000research.3-6.v2](https://doi.org/10.12688/f1000research.3-6.v2) (Open Access).

L Krier and **C Strasser**. 2014. *Data Management for Libraries: A LITA Guide*. 112 pages. Available from alastore.ala.org

J Hartter, SJ Ryan, CA MacKenzie, JN Parker, and **CA Strasser**. 2013. Spatially Explicit Data: Stewardship and Ethical Challenges in Science. *PLoS Biology* 11(9): e1001634. [doi:10.1371/journal.pbio.1001634](https://doi.org/10.1371/journal.pbio.1001634) (Open Access)

S Hampton, **CA Strasser**, J Tewksbury, W Gram, A Budden, A Batcheller, C Duke, and J Porter. 2013. Big data and the future of ecology. *Frontiers in Ecology and the Environment* 11(3): 156-162. [doi: 10.1890/120103](https://doi.org/10.1890/120103). [Open Access copy](#)

S Hampton, **C Strasser**, and J Tewksbury. 2013. Growing Pains for Ecology in the 21st Century. *BioScience*. 63(2): 69-71. [doi:10.1525/bio.2013.63.2.2](https://doi.org/10.1525/bio.2013.63.2.2). [Open Access copy](#)

P St-Onge, JM Sevigny, **CA Strasser**, and R Tremblay. 2013. Strong population differentiation of softshell clams (*Mya arenaria*) sampled across seven biogeographic marine ecoregions: possible selection and isolation by distance. *Marine Biology*. [doi: 10.1007/s00227-012-2157-5](https://doi.org/10.1007/s00227-012-2157-5). [Open Access Copy](#)

CA Strasser and SE Hampton. 2012. The Fractured Lab Notebook: Undergraduates and Ecological Data Management Training in the United States. *Ecosphere* 3:art116. [doi:10.1890/ES12-00139.1](https://doi.org/10.1890/ES12-00139.1) (Open Access). [Data in KNB Repository](#)

H Rajakaruna, **CA Strasser** and MA Lewis. 2012. Identifying non-invasible habitats for marine copepods using temperature-dependent R_0 . *Biological Invasions* 14:633-647. doi:10.1007/s10530-011-0104-x. [Open Access copy](#)

S Hampton, J Tewksbury and **CA Strasser**. 2012. Ecological data in the Information Age. Guest Editorial in *Frontiers in Ecology and the Environment* 10:59. doi:10.1890/1540-9295-10.2.59. [Open Access copy](#)

CA Strasser, R Cook, W Michener, and A Budden. 2012. Primer on Data Management: What You Always Wanted to Know. A DataONE publication. doi:10.5060/D2251G48 (Open Access)

CA Strasser, MA Lewis, and C DiBacco. 2011. A mechanistic model for understanding invasions: Using the environment as a predictor of population success. *Diversity and Distributions* 17:1210-1224. doi:10.1111/j.1472-4642.2011.00791.x. [Open Access copy](#)

CA Strasser, M Neubert, H Caswell, and C Hunter. 2012. Contributions of high and low quality patches to a metapopulation with stochastic disturbance. *Theoretical Ecology* 5:167-179. doi:10.1007/s12080-010-0106-9. [Open Access copy](#)

CA Strasser, and PH Barber. 2009. Limited genetic variation and structure in softshell clams (*Mya arenaria*) across their native and introduced range. *Conservation Genetics* 10: 803-814. doi:10.1007/s10592-008-9641-y. [Open Access copy](#)

CA Strasser, LS Mullineaux, and SR Thorrold. 2008. Temperature and salinity effects on elemental uptake in the shells of larval and juvenile softshell clams (*Mya arenaria*). *Marine Ecology Progress Series* 370: 155-1639. doi:10.3354/meps07658 (Open Access)

CA Strasser, LS Mullineaux and BD Walther. 2008. Growth rate and age effects on *Mya arenaria* shell chemistry: implications for biogeochemical studies. *Journal of Experimental Marine Biology and Ecology* 355: 153-163. doi:10.1016/j.jembe.2007.12.0 (Open Access)

CA Strasser, SR Thorrold, VR Starczak, and LS Mullineaux. 2007. Laser ablation ICP-MS analysis of larval shell in softshell clams (*Mya arenaria*) poses challenges for natural tag studies. *Limnology & Oceanography: Methods* 5: 241-249. [PDF](#) (Open Access)

SELECTED INVITED TALKS “Reaching Nirvana: The Future of Persistent Identifiers.” Keynote for PIDapalooza Meeting, November 2016. figshare. [10.6084/m9.figshare.4220520.v1](#).

“Funders and Publishers as Agents of Change.” Keynote for Crossref LIVE16 Meeting, November 2016. figshare. [10.6084/m9.figshare.4193511.v1](#).

“Scientific Data Management and Open Science.” Presentation for CLIR Postdoc Symposium, July 2016. figshare. [10.6084/m9.figshare.3503411.v1](#).

“Data Stewardship: Tips, Tools, and Why You Should Care.” Keynote for 2014 Mountain Observatories Workshop, July 2014. [Slides](#).

“Research Data Management and the Role of Libraries.” Keynote for the 2014 Colorado Alliance of Research Libraries Meeting, July 2014. [Slides](#).

Many other presentations are available at www.slideshare.net/carlystrasser

OTHER RESEARCH C Strasser, P Cruse, J Kunze, and S Abrams. 2013. **Data** from “DataUp: A tool to help researchers
OUTPUTS describe and share tabular data”. figshare. doi: [10.6084/m9.figshare.884625](https://doi.org/10.6084/m9.figshare.884625)

CA Strasser and SE Hampton. 2012. **Data** from “The Fractured Lab Notebook: Undergraduates and Ecological Data Management Training in the United States.” [Data available from KNB Repository](#).

C Strasser, P Cruse, and S Abrams. 2014. **Grant** from the Alfred P. Sloan Foundation. “Dash: Improving Community Repositories for Better Data Sharing.” Available at escholarship.org/uc/item/2mw6v93b.

J Lin, P Cruse, M Fenner, and C Strasser. 2014. **Grant** from the National Science Foundation, EAGER ACI Award No. 1448821. “Making Data Count: Developing a Data Metrics Pilot.” Available at escholarship.org/uc/item/9kf081vf.

P Cruse and C Strasser. 2012. **Grant** from Institute of Museum and Library Services, No. LG-07-12-0505-12. “Improving Data Stewardship with the DMPTool: Empowering Libraries to Seize Data Management Education.”

P Cruse, S Abrams, C Strasser, A Sallans, S Shreeves, and A Budden. 2012. **Grant** from the Alfred P. Sloan Foundation. “Data Management Planning Tool 2: Responding to the Community.”

P Cruse, C Strasser, W Michener, J Kunze, and D Vieglais. 2012. **Grant** from the National Science Foundation, supplemental to OCI Award No. 0830944. “DataUp: Further Development and Community Building.” Available at escholarship.org/uc/item/1dt1v1pc.

J Kratz and C Strasser. 2014. Researcher Perspectives on Publication and Peer Review of Data. **Poster** for Research Data Alliance 4th Plenary Meeting. (Winner, best poster). [slideshare](#).

C Strasser, G Steinhart, and S Wright. 2014. DataONE Toolkit for Librarians. **Poster** for IASSIST, ALA, and other meetings. figshare. doi: [10.6084/m9.figshare.915391](https://doi.org/10.6084/m9.figshare.915391).

C Strasser, J Kunze, and P Cruse. 2013. DataUp: Helping Researchers Manage, Archive & Share Tabular Data. **Poster** for IDCC and other meetings. figshare. doi: [10.6084/m9.figshare.729045](https://doi.org/10.6084/m9.figshare.729045).

TEACHING
EXPERIENCE

Marine Science at University of Alberta, 2009-2010
Dynamics of Oceanography at Dalhousie University, 2010
Models in Ecology at Bamfield Marine Sciences Centre, 2009
Biological Oceanography at WHOI, 2004-2005
General Biology at Maric College, 2001-2002
Invertebrate Zoology at University of San Diego, 2000

PROFESSIONAL
ACTIVITIES &
SERVICE

NSF Review Panelist, Office of Cyber-Infrastructure (2011); NSF Research Traineeship Program (2014)

Reviewer, Moore Foundation Inventor Fellowship Program, International Journal of Geo-Information, PLOS ONE, PLOS Biology, Laura Bush 21st Century Librarian Grant Program, International Journal on Digital Libraries, Journal of eScience Librarianship, Ecology Letters, Conservation Biology, Nature Biotech, Conservation Genetics, Journal of Sea Research, Marine Ecology Progress Series, Journal of Marine Biology, Marine Biology Research, Aquatic Biology, Journal of Experimental Marine Biology and Ecology, NSF Proposals, IMLS Proposals

Member, American Geophysical Union (2011 - present); American Society of Limnology and Oceanography (2003 - present); Ecological Society of America (2007 - present); Society for Mathematical Biology (2007 - 2010); Student Representative Committee to the Joint Program in Biological Oceanography, WHOI (2007); Biology Department Graduate Student Representative (2004)

Honors & Awards: National Defense Science and Engineering Graduate Fellowship (2002-2005), National Barry M. Goldwater Scholarship recipient (1999-2001), University of San Diego (USD) Deans List (1997-2001), Outstanding Scholarship for Marine Science Department, USD (2001), Outstanding Research for Marine Science Department, USD (2001), USD Associated Students Research Grant (1999), USD Trustee Scholarship Recipient (1997-2001)