

Carly A. Strasser, PhD

CONTACT INFORMATION

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EDUCATION

Massachusetts Institute of Technology/Woods Hole Oceanographic Institution. Ph.D.,
Biological Oceanography

University of San Diego. B.A., Marine Science with Biology emphasis, Summa Cum Laude

PROFESSIONAL & RESEARCH EXPERIENCE

Chan Zuckerberg Initiative, San Francisco CA

Program Manager, Open Science

May 2020 - Present

Drive the execution of open science initiatives for the **Open Science program at CZI**. Develop strategies for promoting and enabling open science through funding and advocacy. Manage the development and operations of grant programs to support open science, including designing and executing requests for proposals, driving targeted grants, and tracking and reporting grantee progress. Run workshops and undertake landscaping activities to inform future grant making. Coordinate open science activities with the CZI Science team and the external community. Represent CZI for the Open Research Funders Group.

Fred Hutchinson Cancer Research Center, Seattle WA

Director of Alliances and Data Strategy

July 2018 - April 2020

As a core leader of the Hutch Data Commonwealth (HDC), established and led strategic initiatives supporting data-intensive research at Fred Hutch through internal and external partnerships, community building, and infrastructure development. Contributed to strategic growth plan for HDC, including establishing new teams and roles, and recruiting new staff to engage researchers to understand their needs. Overhauled program operations and communications to ensure effective information sharing, staff engagement, and program efficacy.

Collaborative Knowledge Foundation (Coko), San Francisco CA

Director of Strategic Development

December 2017 - June 2018

Established and managed the development of the **Coko** community program across all publishing products and services. Worked with marketing team, developers, and product managers to effectively communicate Coko's mission of creating open source infrastructure for research communication.

Gordon & Betty Moore Foundation, Palo Alto CA

Program Officer

March 2015 - December 2017

Implemented and managed the **Data-Driven Discovery Initiative** alongside the Program Director. Administered grants in the Initiative's portfolio; planned and oversaw grantee meetings, collaborations, and partnerships; and tracked trends, synthesizing knowledge relevant to the Initiative. Separate from the Initiative, sourced and developed grants related to improving how science is conducted, including projects focused on data management, scholarly communication, and synthesis studies. Led establishment of an **Open Access Policy** for all grantees.

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

Research Data Specialist

July 2011 - March 2015

Provided expert guidance and consultation on data stewardship to UC researchers; led workshops and gave seminars on the value of data management for scientists; promoted open science and

open data within the UC and beyond. Dash (now [Dryad](#)) data curation platform product manager; DMPTool ([dmptool.org](#)) project team member. Supervisor, CLIR/DLF Postdoctoral Fellow in Data Curation. 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](#)), an NSF-funded cyber-infrastructure project to provide universal access to environmental and ecological data. Conducted research related to data education, organized and led workshops, and participated in working groups.

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.

DATA & RESEARCH
COMMUNICATION
PUBLICATIONS

C Strasser, K Hertweck, J Greenberg, D Taraborelli, and E Vu. 2022. Ten simple rules for funding scientific open source software. *PLOS Computational Biology* 18(11): [10.1371/journal.pcbi.1010627](#).

K Hertweck and **C Strasser**. 2020. From novice to expert: Supporting all levels of computational expertise in reproducible research methods. PEARC '20: Practice and Experience in Advanced Research Computing. [10.1145/3311790.3396655](#).

L Teytelman, W Gunn and J Kamens (authorship limited to 3). 2019. The EPA's proposed 'transparency rule' will harm health, safety, and the environment. *STAT*, December 9 2019. [www.statnews.com/2019/12/09/epa-transparency-rule-bad-for-science-health-safety-environment](#).

S Alexander, K Jones, N Bennett, A Budden, M Cox, M Crosas, E Game, J Geary, R Hardy, J Johnson, S Karcher, N Motzer, J Pittman, H Randell, J Silva, P Pinto da Silva, **C Strasser**, C Strawhacker, A Stuhl and N Weber. 2019. Qualitative data sharing and synthesis for sustainability science. *Nature Sustainability*. [10.1038/s41893-019-0434-8](#).

J Chodacki, P Cruse, J Lin, C Neylon, D Pattinson, and **C Strasser**. 2018. *Supporting Research Communications: A Guide*. Book available for download on Zenodo. [10.5281/zenodo.3524662](#) (open access).

C Strasser and E Khare. 2017. Estimated effects of implementing an open access policy for grantees at a private foundation. *PeerJ* 5:e3853 [10.7717/peerj.3853](#). (open access).

C Strasser. 2016. Preprints: The Bigger Picture. *The Winnower* 3:e146955.56313. [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](#) (open access with login).

C Strasser. 2015. Research Data Management: A Primer Publication of the National Information Standards Organization. [Download from www.niso.org](#) (open access).

J Kratz and **C Strasser**. 2015. Making data count. *Nature Scientific Data* 2: 150039. [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. [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. [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. [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. [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. [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. [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. [10.1525/bio.2013.63.2.2](https://doi.org/10.1525/bio.2013.63.2.2) (open access).

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

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. [10.1890/1540-9295-10.2.59](https://doi.org/10.1890/1540-9295-10.2.59) (open access).

CA Strasser, R Cook, W Michener, and A Budden. 2012. Primer on Data Management: What You Always Wanted to Know. A DataONE publication. [10.5060/D2251G48](https://doi.org/10.5060/D2251G48) (open access).

SELECT INVITED PRESENTATIONS

“Effective Data Management and its Role in Open Research.” Invited presentation for the NISO Hot Topics Virtual Webinar on Effective Data Management, September 2021. Zenodo. [10.5281/zenodo.5538979](https://doi.org/10.5281/zenodo.5538979).

“Open Data: An Overview.” Invited presentation for the British Ecological Society Festival of Ecology, December 2020. Zenodo. [10.5281/zenodo.4321133](https://doi.org/10.5281/zenodo.4321133).

“Data and Partnerships at Fred Hutch.” Invited presentation for NCI Symposium on Personal Control of Genomic Data for Research, September 2019. figshare. [10.6084/m9.figshare.9914060.v1](https://doi.org/10.6084/m9.figshare.9914060.v1).

PROFESSIONAL ACTIVITIES & SERVICE

Steering committee member, [NIST Research Data Framework](#) (2021 – present)

Advisory board member, [Gates Open Research](#) (2021 - present); [Make Data Count project](#) (2017

– present)

Board member, Dryad Digital Repository (2017 – 2020)

Reviewer, NSF Office of Cyber-Infrastructure, NSF Research Traineeship Program, IMLS Laura Bush 21st Century Librarian Program, Sloan Foundation, Moore Foundation Inventor Fellowship Program, *Nature Scientific Data*, *eLife*, *PLOS ONE*, *PLOS Biology*, *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*, *Journal of Experimental Marine Biology and Ecology*

ECOLOGICAL
RESEARCH
PUBLICATIONS

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*. [10.1007/s00227-012-2157-5](https://doi.org/10.1007/s00227-012-2157-5). [Open access copy](#).

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. [10.1007/s10530-011-0104-x](https://doi.org/10.1007/s10530-011-0104-x). [Open access copy](#).

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. [10.1111/j.1472-4642.2011.00791.x](https://doi.org/10.1111/j.1472-4642.2011.00791.x) (open access).

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. [10.1007/s12080-010-0106-9](https://doi.org/10.1007/s12080-010-0106-9) (open access).

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. [10.1007/s10592-008-9641-y](https://doi.org/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. [10.3354/meps07658](https://doi.org/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. [10.1016/j.jembe.2007.12.022](https://doi.org/10.1016/j.jembe.2007.12.022). [Open access copy](#).

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. [10.4319/lom.2007.5.241](https://doi.org/10.4319/lom.2007.5.241) (open access).