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

Fred Hutchinson Cancer Research Center, Seattle WA

Director of Alliances and Data Strategy July 2018 - Present

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. Key accomplishments:

- Created a core leadership team to define the vision and mission of HDC in supporting data-intensive research through partnerships, engineering, and infrastructure
- Developed and implemented a strategic growth plan for HDC, including establishment of new teams and roles; recruited new staff to engage researchers to understand their needs and facilitate better support for data-intensive research
- Overhauled program operations and communications to ensure effective information-sharing, staff engagement, and program efficacy
- Created and led programmatics for the newly established HDC Accelerator Fund, providing financial support for Hutch researchers through partnerships with external groups including Sage Bionetworks, Google, Pattern Computing, and Seattle Children's Research Institute
- Designed and launched the Cascadia Data Alliance, a regional health data partnership funded by Microsoft; contribute to ongoing strategy and vision, including partnership with Seattle Translational Tumor Research to streamline access to biospecimens. Co-led collaborations with BC Cancer, UBC, and OHSU focused on sharing biomedical research data
- Established the Bioinformatics and Data Science Cooperative (The Coop) to create a community and resources for researchers to best conduct data-intensive research
  - To date, we have more than 300 active members, have conducted more than 30 events, and have trained more than 300 researchers
  - Absorbed and grew fredhutch.io, Hutch's computational training program, including hiring new personnel to further advance the mission of The Coop through training
  - Frequently collaborate with external (UW, Carpentries, OHSU) and internal (Scientific Computing, Translational Data Science Integrated Research Center, FH Bioinformatics Interest Group, Biostats, Computational Biology program) groups to align efforts around support for data-intensive research
- Established a fellowship program with Cambia Grove that partnered two bioinformatics fellows with the Fred Hutch Data Visualization Initiative to enable programmatic access to public datasets
- Led discussions about ORCID integrations and facilitated conversations with companies that provide software to enable researcher output tracking, including publications, at the Hutch. Facilitated open science discussions with the library
- Advised the Data Science Coordination Committee, as a member, to organize numerous group efforts supporting data science

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

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*. doi: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*. Version 1.1. Available at www.supporters.guide (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 doi:10.7717/peerj.3853. (open access).

C Strasser. 2016. Preprints: The Bigger Picture. *The Winnower* 3:e146955.56313. doi:10.15200/winn.146955.56313 (open access).

C Strasser and 22 others. 2016. Preprints for the life sciences. *Science* 352: 6288. pp. 889-901. doi:10.1126/science.aaf9133 (open access).

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. doi: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. doi: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 (open access).

J Kratz and **C Strasser**. 2014. Data publication consensus and controversies. *F1000Research* 3:94. doi: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 (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 (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. Open access copy.

S Hampton, **C Strasser**, and J Tewksbury. 2013. Growing Pains for Ecology in the 21^{st} Century. *BioScience.* 63(2): 69-71. doi: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. *Ecopshere* 3:art116. doi: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. doi: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. doi:10.5060/D2251G48 (open access).

Select Invited Presentations

"Data and Partnerships at Fred Hutch." Invited presentation for NCI Symposium on Personal Control of Genomic Data for Research, September 2019. figshare. doi:10.6084/m9.figshare.9914060.v1.

"Increasing the Yield of Research Through Openness." Keynote at Crops In Silico Meeting, August 2018. figshare. doi:10.6084/m9.figshare.6890702.v2.

"Funders and Publishers as Agents of Change." Keynote for Crossref LIVE16 Meeting, November 2016. figshare. 10.6084/m9.figshare.4193511.v1.

Professional Activities & Service

Board Member, Dryad Digital Repository (2017 – present)

Advisory Board, Make Data Count project (2017 – present)

Reviewer, NSF Office of Cyber-Infrastructure, NSF Research Traineeship Program, IMLS Laura Bush 21st Century Librarian Program, Alfred P. 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, Aquatic Biology, 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*. doi: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. doi: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. doi: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. doi: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. 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.2007.12.022. 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. doi:10.4319/lom.2007.5.241 (open access).