CAMILA VARGAS POULSEN (she/her)

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EDUCATION

Master of Environmental Science and Management (Jun 2018)
Coastal Marine Resources Management Specialization
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
      Awards/Fellowships: Latin American Fishery Fellowship; Chilean Government Scholarship of Science

Degree in Natural Resources Management and Environment (Sep 2014)
Bachelor of Science in Biology with focus in Ecology (Aug 2013)
Pontificia Universidad Católica de Chile (PUC), Santiago, Chile

DATA SCIENCE EXPERIENCE

Data Manager, (Jul 2021 – present)
Caselle Lab - Marine Science Institute, UCSB, and The Nature Conservancy, Santa Barbara, CA
Projects: Palmyra Atoll Data Library (PADL) and Mendocino Kelp Forest Restoration
- Mobilizing data from Palmyra Atoll's researchers to the Environmental Data Initiative (EDI) data repository
- QA/QCing and transforming 20+ environmental data sets to comply with FAIR principles using RStudio
- Documenting metadata and developing a systematized, reproducible workflow to create EMLs
- Co-creating a research framework to evaluate the impact on conservation of scientific research done at PA
- Streamlining and analyzing urchin monitoring data to evaluate effective urchin removal methods

Research Assistant, (May 2020 – Apr 2021)
Marine Science Institute, UCSB, and The Nature Conservancy, Santa Barbara, CA
Project: West Coast synthesis of climate impacts on marine fisheries
- Systematized and digitized California's historical fisheries landings data at a port level
- Built a dataset that documents spatial and temporal extent of fishery closures on the West Coast
Project: Synthetic Estimate of Lost Fishing Gear
- Managed data describing global catch, effort, discards, and fishing gear use using RStudio and GitHub
- Developed a reproducible workflow to estimate quantities of derelict fishing gear using a synthesis model

Ocean Health Index (OHI) Fellow (Jan – Sep 2018)
National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA
- Updated and formatted 10+ datasets necessary to calculate the 2018 OHI global assessment
- Revised 9 R scripts with OHI methods to ensure the necessary functions and data worked properly
- Collaborated with a team of 5 using version control and GitHub features for project management
- Wrote 3 blog posts documenting the experience of working with the OHI, published on the OHI website

MARINE CONSERVATION RESEARCH

Research Assistant (Mar 2014 – Aug 2016)
Marine Conservation Center, Dr. Stefan Gelcich Lab, PUC, Santiago, Chile
- Conducted research on the role of gender in small-scale fisheries associations on the coast of Chile
- Analyzed the conditions that allow the creation of no-take zones to scale up marine conservation
- Revised scientific literature to inform a credit-system protocol for biodiversity offsets program in Chile
- Reviewed 179 scientific papers on biodiversity offsets and co-led a scientific publication on the topic

PROFESSIONAL EXPERIENCE

Operations Manager (Jan 2019 – Jun 2020)
Get Hooked Seafood, Santa Barbara, CA

- Oversaw coordinated seafood processing logistics to deliver ~400 shares a day within SB County
- Developed code in RStudio to efficiently track, document, and process seafood orders and inventory
- Analyzed customer data to track spending patterns, customer loyalty, and customer acquisition
- Researched content promoting social and environmental benefits of eating local seafood for newsletters

WORKSHOPS AND MENTORING

Santa Barbara R Users Group

- Data Quality Control Using R (Jun 2022)
- Data tables for streamlining publishing data with R (May 2022)

Caselle Lab

- Introduction to Github (Apr 2022)

UCSB Carpentry

- Introduction to R (May 2021)
- Introduction to Scientific Reproducibility with R (Oct 2020)

Environmental Data Initiative Program

- Paloma Cartwright - 2022 Data Management Fellowship (Jun – Aug 2022)

JOURNAL PUBLICATIONS

Free C.M., **Vargas Poulsen C.**, Bellquist L.F., Wassermann S.N., Oken K.L., The CALFISH database: a century of California's non-confidential fisheries landings and participation data. Ecological Informatics (2022), https://doi.org/10.1016/j.ecoinf.2022.101599

Kuczenski, B., **Vargas Poulsen, C.**, Gilman, E., Musyl, M., Geyer, R., Wilson J., Plastic gear loss estimates from remote observation of industrial fishing activity, Fish and Fisheries (2021), https://doi.org/10.1111/faf.12596

Kuczenski, B., **Vargas Poulsen, C.**, Gilman, E., Musyl, M., Winkler, B., Geyer, R., A model for the intensity of fishing gear, Journal of Industrial Ecology (2021), https://doi.org/10.1111/jiec.13156

Vargas Poulsen, C., Rivera, A., Ortiz, V., Castilla, J.C, Estévez, R., Reyes-Mendy, F., Gelcich, S., Exploring relationships between gender and collective action in artisanal fisher associations of Central Chile, Bulletin of Marine Science (2022), https://doi.org/10.5343/bms.2021.0052

Gelcich, S., **Vargas, C.**, Carreras, M.J., Castilla, J.C., Donlan, J., Achieving biodiversity benefits with offsets: Research gaps, challenges, and needs, Ambio (2017), https://doi.org/10.1007/s13280-016-0810-9

Gelcich, S., Peralta, L., Donaln, J., Godoy, N., Ortiz, V., Tapia-Lewin, S**., Vargas, C.**, Keim, A., Castilla, J.C., et al. Alternative strategies for scaling up marine coastal biodiversity conservation in Chile, Maritime Studies (2015), https://doi.org/10.1186/s40152-015-0022-0

SKILLS & CERTIFICATIONS

Computer: Proficient in R, RStudio, Github, Google Suite, Microsoft Office, PC, and Mac
Language: English (Fluent), Spanish (Native Speaker)
Certifications: Data Carpentry Instructor, PADI Open Water Diver