

™maxczapanskiy@gmail.com

★ flukeandfeather.com | ☐ FlukeAndFeather | ⑥ 0000-0002-6302-905X

Ecologist, data scientist, and educator. I teach scientists at all career stages how to improve their data analysis skills through innovative course design and hands-on mentorship. My research integrates software engineering and ecology to promote open and reproducible science.

Education ___

Stanford University

PHD IN BIOLOGY 2022

· Advised by Jeremy Goldbogen

· Dissertation: Baleen whale physiology revealed through the integration of bio-logging and ecoinformatics

San Francisco State University San Francisco, CA

MS IN GEOGRAPHIC INFORMATION SYSTEMS

2018

- · Advised by Ellen Hines
- Thesis: Using energy landscapes to understand seabird movement and spatial ecology
- · Graduate hood, College of Science & Engineering

Columbia University New York, NY BS IN COMPUTER SCIENCE 2014

Teaching and Mentoring ___

Data Science for Eco/Evo

LEAD INSTRUCTOR

- · Graduate seminar in the Department of Eco and Evo Bio covering scientific programming, project management, and open science.
- Course website: flukeandfeather.github.io/BIOE215fall23/

Undergraduate researcher mentor

REEFS MENTOR

Just Enough Software Engineering (For Scientists)

LEAD INSTRUCTOR

• Two-week self-directed, mastery-oriented software engineering course for biosciences graduate students

Introduction to Physiological Ecology

Undergraduate researcher mentor

NSF REU MENTOR

• Mentee Hayden Smith presented his work at a conference and published it in the Journal of Exp. Bio. (Gough et al., 2021).

Data Carpentry The Carpentries

CERTIFIED INSTRUCTOR 2018 - present

Introduction to Ecology

TEACHING ASSISTANT 2018

Introduction to GIS San Francisco State University

TEACHING ASSISTANT 2016 - 2017

TEACHING ASSISTANT

Sea-Ice and Macrozooplankton Distribution as Determinants of Top Predator Community Structure in

Antarctic Winter

Marine Ecology Progress Series

CZAPANSKIY, M.F., SANTORA, J.A., DIETRICH, K.S., CIMINO, M.A., HAZEN, E.L., ..., VEIT, R.R.

Ecosystem Sentinels as Early-Warning Indicators in the Anthropocene

Ann. Rev. of Environment and Resources

Hazen, E.L., Savoca, M.S., Clark-Wolf, T., Czapanskiy, M.F., Rabinowitz, P.M., Abrahms, B.

2024

Energy Densities of Key Prey Species in the California Current Ecosystem	Frontiers in Marine Science
PRICE, S.E., SAVOCA, M.S., KUMAR, M., CZAPANSKIY, M.F., McDERMOTT, D.,, GOLDBOGEN, J.A.	2024
Field measurements reveal the risk of microplastic ingestion by filter-feeding megafauna Kahane-Rapport, S.R., Czapanskiy, M.F. , Fahlbusch, J.A., Friedlaender, A.S., Calambokidis, J.,, Savoca, M.S.	Nature Communications 2022
Fast and furious: energetic tradeoffs and scaling of high-speed foraging in rorqual whales	Integrative Organismal Biology
Gough, W.T., Cade, D.E., Czapanskiy, M.F. , Potvin, J., Fish, F.E.,, Goldbogen, J.A.	2022
Blue whales increase feeding rates at fine-scale ocean features	Proceedings of the Royal Society B
Fahlbusch, J.A., Czapanskiy, M.F. , Calambokidis, J., Cade, D.E., Abrahms, B.,, Goldbogen, J.A.	2022
Baleen whale inhalation variability revealed using animal-borne video tags	PeerJ
Nazario, E.C., Cade, D.E., Bierlich, K., Czapanskiy, M.F. , Goldbogen, J.A.,, Friedlaender, A.S.	2022
How reproducibility will accelerate discovery through collaboration in physio-logging CZAPANSKIY, M.F. , BELTRAN, R.S.	Frontiers in Physiology 2022
An accelerometer-derived ballistocardiogram method for detecting heartrates in free-ranging marine mammals	Journal of Exp. Bio.
CZAPANSKIY, M.F., PONGANIS, P.J., FAHLBUSCH, J.A., SCHMITT, T.L., GOLDBOGEN, J.A.	2022
Elephant seals time their long-distance migrations using a map sense	Current Biology
Beltran, R.S., Yuen, A.L., Condit, R., Robinson, P.W., Czapanskiy, M.F. ,, Costa, D.P.	2022
Scaling of maneuvering performance in baleen whales: larger whales outperform expectations	Journal of Exp. Bio.
Segre, P.S., Gough, W.T., Roualdes, E.A., Cade, D.E., Czapanskiy, M.F. ,, Goldbogen, J.A.	2022
Tools for integrating inertial sensor data with video bio-loggers, including estimation of animal orientation, motion, and position	Animal Biotelemetry
Cade, D.E., Gough, W.T., Czapanskiy, M.F. , Fahlbusch, J.A., Kahane-Rapport, S.R.,, Goldbogen, J.A.	2021
Baleen whale prey consumption based on high-resolution foraging measurements	Nature
SAVOCA, M.S., CZAPANSKIY, M.F. , KAHANE-RAPPORT, S.R., GOUGH, W.T., FAHLBUSCH, J.A.,, GOLDBOGEN, J.A.	2021
Modelling short-term energetic costs of sonar disturbance to cetaceans using high-resolution foraging data	Journal of Applied Ecology
CZAPANSKIY, M.F., SAVOCA, M.S., GOUGH, W.T., SEGRE, P.S., WISNIEWSKA, D.M.,, GOLDBOGEN, J.A.	2021
Scaling of oscillatory kinematics and Froude efficiency in baleen whales	Journal of Exp. Bio.
GOUGH, W.T., SMITH, H.J., SAVOCA, M.S., CZAPANSKIY, M.F. , FISH, F.E.,, GOLDBOGEN, J.A.	2021
Cervical air sac oxygen profiles in diving emperor penguins: parabronchial ventilation and the respiratory oxygen store	Journal of Exp. Bio.
WILLIAMS, C.L., CZAPANSKIY, M.F. , JOHN, J.S., ST LEGER, J., SCADENG, M., PONGANIS, P.J.	2021
Why whales are big but not bigger: Physiological drivers and ecological limits in the age of ocean giants	Science
Goldbogen, J.A., Cade, D.E., Wisniewska, D.M., Potvin, J.,, Czapanskiy, M.F.,, Pyenson, N.D.	2019
Extreme bradycardia and tachycardia in the world's largest animal	PNAS
Goldbogen, J.A., Cade, D.E., Calambokidis, J., Czapanskiy, M.F. , Fahlbusch, J.,, Ponganis, P.J.	2019
Diving behavior of Pink-footed Shearwaters Ardenna creatopus rearing chicks on Isla Mocha, Chile	Marine Ornithology
Adams, J., Felis, J.J., Czapanskiy, M.F. , Carle, R., Hodum, P.	2019
Collision and displacement vulnerability to offshore wind energy infrastructure among marine birds of the Pacific Outer Continental Shelf	Journal of Env. Mgmt.
Kelsey, E.C., Felis, J.J., Czapanskiy, M.F. , Pereksta, D.M., Adams, J.	2018
Employment	
UC Santa Barbara, Bren School of Environmental Science and Management & College of Creative Studies	
Assistant Professor of Teaching	2024 - Present
NOAA / UC Santa Cruz	
Postdoctoral Scholar	2022 - 2024
Stanford University	
STANFORD DATA SCIENCE SCHOLAR	2019 - 2021
U.S. Geological Survey Western Ecological Research Center	
D	2014 2017

BIOLOGICAL SCIENCES TECHNICIAN

2014 - 2017

University of Montana Avian Science Center	
Avian Point Count Technician	2014
Friends of Cooper Island	
FIELD ASSISTANT AND DATA ANALYST	2012 - 2013
Point Blue Conservation Science	
MARINE ECOLOGY INTERN	2013
Microsoft	
SOFTWARE DEVELOPER ENGINEER IN TEST	2009 - 2012
Conference presentations	
Stickleback: A machine learning pipeline for detecting behavioral events in bio-logging data	Online
7TH INTERNATIONAL BIO-LOGGING SYMPOSIUM	2021
Quantifying the Influence of Energy Windscapes on Seabird Distributions	Portland, OR
Ocean Sciences Meeting	2018
Modeling Seabird Habitat Accessibility	Pacific Grove, CA
SOCIETY FOR CONSERVATION GIS ANNUAL CONFERENCE	2017

Taking the Plunge: Comparing Diving Behavior of Red-footed and Brown Boobies Breeding on Lehua

Islet, Hawaii

PACIFIC SEABIRD GROUP ANNUAL MEETING

Turtle Bay, HI

2016