

Diana H. Li, Ph.D.

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120 Ocean View Boulevard, Pacific Grove, CA 93950

CURRENT POSITION

Education Coordinator, Western Flyer Foundation, Monterey, CA April 2019 - present
 Developing and implementing K-12 curriculum for ship- and shore-based ocean education activities to promote data literacy; integrating science with art, history, and storytelling to understand the Pacific coastline; assisting with grant-writing to obtain federal funding

EDUCATION

Ph.D. in Biology, Stanford University, Stanford, CA April 2019
B.A. in Ecology and Evolutionary Biology, Princeton University, Princeton, NJ June 2013
Training & Workshops
 Exhibit Evaluation - Reinventing Visitor Engagement (UC Santa Barbara & MOXI) Oct. 2018
 Negotiation and Influence (MIT Sloan) Mar. 2018
 Sculptural Data Illustration - 3D Printing (Stanford School of Medicine) Mar. 2017
 Design Thinking - Research as Design (Stanford d.school) Feb. 2017
 Diversity, Equity, and Inclusion for Environmental Professionals Feb. 2016
 Design Thinking - Collaboration, Creativity, and Leadership (Stanford d.school) Jan. 2015
 Software Carpentry - Github, MATLAB, R, Python Aug. 2014

RESEARCH EXPERIENCE

Graduate Researcher, Hopkins Marine Station, Stanford University, Pacific Grove, CA Sept. 2013 - April 2019
Dissertation: Neurophysiology and biomechanics of squid locomotion; advised by William Gilly
 Investigated tolerance of squid locomotion to low oxygen; characterized the role of neural and muscular input in hydrodynamic output of jet propulsion; explored hydrodynamic constraints of jet propulsion at small scales in squid hatchlings
External Consultant, Seafood Watch, Monterey Bay Aquarium, Monterey, CA Dec. 2016 - Dec. 2018
Recommendation report: Jumbo squid fishery in the southeastern Pacific operated by China
Graduate Student Fellow, National Marine Fisheries Service & University of Florida June 2013
 Recruiting, Training, and Research Program, Gainesville, FL
Collaborative research project: Considering the future of Gulf of Mexico sturgeon management in the Apalachicola and Suwannee Rivers
Undergraduate Researcher, Hopkins Marine Station, Stanford University, Pacific Grove, CA July - Aug. 2012
Senior thesis project: Effects of temperature and oxygen on the escape response in California market squid (*Doryteuthis opalescens*); advised by William Gilly (Stanford) and Iain Couzin (Princeton)
Marine Ecology Intern, Archipelagos Institute for Marine Conservation, Ormos-Marathokampou, Samos, Greece July - Aug. 2011

Independent research project: Developing a permanent underwater quadrat to track invertebrate abundance and algal assemblages; advised by Anastasia Miliou

TEACHING & EDUCATION EXPERIENCE

Program Coordinator & Educator , Squids4Kids, Stanford University	Sept. 2013 - Apr. 2019
Guest Teacher , Local K-12 schools in Monterey and Santa Cruz counties	Jan. 2015 - Apr. 2019
Class Instructor , Expanding Your Horizons for 6 th -12 th grade girls in STEM	Mar.- Nov. 2018
Guest Lecturer , Vertebrate Physiology, California State University Monterey Bay	Feb. 2017 - Nov. 2018
Guest Lecturer , Invertebrate Zoology, Stanford University	Feb. 2016
Teaching Assistant , Invertebrate Zoology, Stanford University	Jan. - Mar. 2016
Co-Instructor , Snails, Seastars, and Slime: Adaptation and Behavioral Ecology in the Ocean, Stanford Educational Studies Program for 8 th -12 th grade students	Nov. 2015
Teaching Assistant , Cell Biology & Animal Physiology, Stanford University	Jan. - Mar. 2014

OUTREACH & COMMUNICATIONS EXPERIENCE

Guest Speaker	
“Cephalopod Movie Night,” Science Friday live stage show, California State Railroad Museum, Sacramento, CA	21 June 2019
“Sucker for Cephalopods?” Science Friday interview on NPR https://bit.ly/2LjVEmD	21 June 2019
Science Communication Panel, MARINE Colloquium, Moss Landing Marine Labs, Moss Landing, CA	11 May 2019
“The Cephalo-Inspired Technology of the Future,” Science Friday interview on NPR https://bit.ly/2C2pFCP	23 June 2017
“How do squid thrive in their ever-changing environment?” Pacific Grove Museum of Natural History, Pacific Grove, CA	21 Feb. 2017
“The Ocean Habitat,” Middlebury Institute of International Studies, Monterey, CA	28 Aug. 2014
Mentor	
<u>Natalie Rhoades</u> (post-graduate): assisted with Squids4Kids; facilitated squid dissections; designed banners and stickers; helped develop interactive activities	Nov. 2018 - Apr. 2019
<u>Lauren Sepulveda</u> (undergraduate): assisted with Squids4Kids; facilitated squid dissections; provided teaching assistance; devised and managed squid shipping logistics	Jan. - Oct. 2018
<u>Hadley Giebeler</u> (undergraduate): completed independent research on how viscosity influences squid hatchling jet propulsion; presented results at the Society for Advancement of Chicanos/Hispanics and Native Americans in Science meeting in October 2018	Jan. - Aug. 2018
<u>Alyaa Taleb</u> (undergraduate): assisted with high-speed video collection of squid hatching jet propulsion; contributions featured on NPR interview with Science Friday	Apr. - Jul. 2017

<u>Nash Courtright</u> (high-school student): helped analyze video footage of deep-sea animal behavior; work contributed to Berkenpas <i>et al.</i> (2018) paper	Jan. - May 2016
Founder, Editor, & Contributing Author , High Tidings - A blog for Stanford University's Hopkins Marine Station https://hightidings.stanford.edu	Apr. 2018 - Apr. 2019
Editor & Contributing Author , The Dish on Science - A science blogging club for Stanford graduate students https://thedishonscience.stanford.edu	Jan. 2016 - Dec. 2017
Outreach Chair , Hopkins Marine Station Graduate Student Organization, Stanford University	Sept. 2015 - Aug. 2017
Science Judge , Sea Lion Bowl - Northern California Regional Ocean Science Bowl	Feb. 2016; Feb. 2015
Chair , Department of Ecology and Evolutionary Biology Undergraduate Committee, Princeton University	Mar. - June 2013

GRANTS & AWARDS

Biosciences Office of Graduate Education Travel Grant , Stanford University (\$920)	Jan. 2019
Best Student Presentation , Division of Neurobiology, Neuroethology, and Sensory Biology, Society for Integrative and Comparative Biology Annual Conference	Jan. 2018
Conchologists of America Grant (\$2,290)	June 2017
Dr. Earl H. Myers & Ethel M. Myers Oceanographic & Marine Biology Trust Grant (\$2,000)	May 2017
Biosciences Office of Graduate Education Travel Grant , Stanford University (\$1,000)	Jan. 2017
Winner , Eugene C. and Aileen E. Haderlie Memorial Award, Stanford University (\$2,000)	Oct. 2015
Best Laboratory-Based Senior Thesis , Department of Ecology and Evolutionary Biology, Princeton University	June 2013
Senior Thesis Grant , Department of Ecology and Evolutionary Biology, Princeton University (\$6,000)	June 2012

PUBLICATIONS

1. **Li, D.H.** and Gilly, W.F. (2019). Hypoxia tolerance of giant-axon-mediated escape jetting in California market squid (*Doryteuthis opalescens*). *Journal of Experimental Biology*. 222(8): jeb198812.
<https://doi.org/10.1242/jeb.198812> (Cover article)
2. Berkenpas, E.J., Henning, B.S., Shepard, C.M., Turchik, A.J., Robinson, C.J., Portner, E., **Li, D.H.**, Daniel, P.C., and Gilly, W.F. (2018). A buoyancy-controlled Lagrangian camera-platform for in situ imaging of marine organisms in midwater scattering layers. *IEEE Journal of Oceanic Engineering*. 43(3) 595-607.
<https://doi.org/10.1109/JOE.2017.2736138> (Open access)
3. Fernández-Álvarez, F.A., **Li, D.H.**, Portner, E., Villanueva, R., and Gilly, W.F. (2017). Morphological description of egg masses and hatchlings of *Lolliguncula diomedea* (Cephalopoda: Loliginidae). *Journal of Molluscan Studies*. 83(2) 194-9.
<https://doi.org/10.1093/mollus/eyx008>



SELECTED CONFERENCE PROCEEDINGS

- Li, D.H., Bartol, I.K., and Gilly, W.F. (2019) Hydrodynamic diversity in squid jets mediated by giant and non-giant axon systems. Oral presentation, *Society for Integrative and Comparative Biology*, Tampa, FL
- Li, D.H. and Gilly, W.F. (2018) Recovery of giant-axon-mediated escape jetting after exposure to severe hypoxia in *Doryteuthis opalescens* (California market squid). Oral presentation, *Society for Integrative and Comparative Biology*, San Francisco, CA (**Won best presentation**)
- Li, D.H. and Gilly, W.F. (2017) Effects of hypoxia on jet-propelled escape behavior in *Doryteuthis opalescens* (California market squid). Oral presentation, *Society for Integrative and Comparative Biology*, New Orleans, LA
- Li, D.H. and Gilly, W.F. (2016) Effects of hypoxia on jet-propelled escape behavior in *Doryteuthis opalescens* (California market squid). Oral presentation, *Western Society of Naturalists*, Monterey, CA
- Li, D.H. and Gilly, W.F. (2015) Jet-propelled escape behavior in *Dosidicus gigas* (Humboldt squid). Poster presentation, *Western Society of Naturalists*, Sacramento, CA

PROFESSIONAL MEMBERSHIPS, ACTIVITIES, & SKILLS

Member

Coalition for the Public Understanding of Science
Society for Integrative and Comparative Biology
Western Society of Naturalists
Sigma Xi - Scientific Research Society

Peer Reviewer

National Geographic Committee on Research and Exploration
Thalassas - International Journal of Marine Sciences

Skills & Certifications

SCUBA - PADI Open Water & Dry Suit Diver
Small boat operations & trailering
Adobe Photoshop and Illustrator
MATLAB, R, Python
3D printing, AutoCAD
Bilingual - conversational Mandarin Chinese