

Diana H. Li, Ph.D.

Mortimer B. Zuckerman Mind Brain Behavior Institute of Columbia University
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EDUCATION

- Ph.D.**, Biology, Stanford University 2013 – 2019
Advisor: Dr. William Gilly
- A.B.**, Ecology and Evolutionary Biology, Princeton University 2009 – 2013

PROFESSIONAL EXPERIENCE

- Senior Content Development Specialist** 2022 - present
Mortimer B. Zuckerman Mind Brain Behavior Institute, Columbia University
Create, develop, and implement multiple programs to engage the public with neuroscience research at Columbia University: a high-school student research training and internship program, a secondary school teacher professional development program, communication and presentation workshops for scientists, co-hosting a neuroscience podcast highlighting Columbia researchers.
- Public Programs Associate** 2019 – 2022
Mortimer B. Zuckerman Mind Brain Behavior Institute, Columbia University
Designed and led curricula (in-person and virtual) for programs connecting high-school students and teachers to current neuroscience research at Columbia University.
- Education Specialist** 2019
Western Flyer Foundation
Conceived, developed, and implemented six K-12 curricula for ship- and shore-based activities integrating scientific data collection, art, and storytelling to explore local history and ecology along the Pacific coastline.
- Ph.D. Candidate** 2013 – 2019
Gilly Lab, Hopkins Marine Station, Stanford University
Dissertation: “Neurophysiology and biomechanics of squid swimming”
Projects include investigating effects of hypoxia on escape jetting and underlying neural mechanisms in adult squid; characterizing the role of neural input in wake structure production during jetting in adult and hatchling squid.
- Graduate Student Fellow** June 2013
National Marine Fisheries Service & University of Florida Recruiting, Training, and Research Program
Collaborative research project: “Considering the future of Gulf of Mexico sturgeon management in the Apalachicola and Suwannee Rivers.”
- Undergraduate Researcher** July – August 2012
Gilly Lab, Hopkins Marine Station, Stanford University
Senior thesis research project: “Effects of temperature and oxygen on the escape response in California market squid (*Doryteuthis opalescens*)” advised by Dr. William Gilly (Stanford) and Dr. Iain Couzin (Princeton).
- Marine Ecology Researcher** July – August 2011
Archipelagos Institute for Marine Conservation, Ormos-Marathokampou, Samos, Greece
Independent research project: “Developing a permanent underwater quadrat to track invertebrate abundance and algal assemblages” advised by Anastasia Miliou.

GRANTS & AWARDS

Biosciences Office of Graduate Education Travel Grant, Stanford University (\$920)	2019
Best Student Presentation, Division of Neurobiology, Neuroethology, and Sensory Biology, Society for Integrative and Comparative Biology Annual Conference	2018
Conchologists of America Academic Grant (\$2,290)	2017
Dr. Earl H. Myers and Ethel M. Myers Oceanographic & Marine Biology Trust (\$2,000)	2017
Biosciences Office of Graduate Education Travel Grant, Stanford University (\$1,000)	2017
Eugene C. and Aileen E. Haderlie Memorial Award in support of outstanding proposed work on marine invertebrates, Hopkins Marine Station, Stanford University (\$2,000)	2015
Best Laboratory-Based Senior Thesis, Department of Ecology and Evolutionary Biology, Princeton University	2013
Induction into Sigma Xi, The Scientific Research Society	2013
Senior Thesis Grant, Department of Ecology and Evolutionary Biology, Princeton University (\$6,000)	2012

PUBLICATIONS

- Li, D.H. and Gilly, W.F. (2019). Hypoxia tolerance of giant-axon-mediated escape jetting in California market squid (*Doryteuthis opalescens*). *The Journal of Experimental Biology*. 222, jeb198812 doi: 10.1242/jeb.198812
- 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 doi: 10.1109/JOE.2017.2736138
- 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 doi: 10.1093/mollus/eyx008

SELECTED CONFERENCE PROCEEDINGS

- Li, D.H., Silver, B.M., Patel, P., Remole, K.E., Imbimbo, J., Mayers, A.M., Shohamy, D., and Croxson, P.L. 2021 Advancing high school research exposure through BRAINYAC: Brain Research Apprenticeships In New York At Columbia, *Society for Neuroscience*, Virtual meeting.
- Croxson, P.L., Li, D.H., Silver, B.M., Patel, P., Remole, K.E., Imbimbo, J., Mayers, A.M., and Shohamy, D. 2021 Advancing high school research exposure through Brain Research Apprenticeships In New York At Columbia (BRAINYAC), *BRAIN Initiative*, Virtual meeting.
- Croxson, P.L., Li, D.H., Marizzi, C., Negron, J., Mayers, A., Wright, L., and Jackson, T. 2020 STEM internships in a virtual world: How strategies developed during COVID-19 can inform our future. Oral presentation, *Association for Science and Technology Centers*, Virtual meeting.
- Li, D.H., Katija, K., and Gilly, W.F. Hydrodynamic constraints on jet propulsion in squid paralarvae at intermediate Reynolds numbers. Oral presentation, *Society for Integrative and Comparative Biology*, Austin, TX 2020
- Li, D.H., Bartol, I.K., and Gilly, W.F. Hydrodynamic diversity in squid jets mediated by giant and non-giant axon systems. Oral presentation, *Society for Integrative and Comparative Biology*, Tampa, FL 2019

Li, D.H. and Gilly, W.F. Recovery of giant-axon-mediated escape jetting after exposure to severe hypoxia in <i>Doryteuthis opalescens</i> (California market squid). Oral presentation, <i>Society for Integrative and Comparative Biology</i> , San Francisco, CA	2018
Li, D.H. and Gilly, W.F. Effects of hypoxia on jet-propelled escape behavior in <i>Doryteuthis opalescens</i> (California market squid). Oral presentation, <i>Society for Integrative and Comparative Biology</i> , New Orleans, LA	2017
Li, D.H. and Gilly, W.F. Effects of hypoxia on jet-propelled escape behavior in <i>Doryteuthis opalescens</i> (California market squid). Oral presentation, <i>Western Society of Naturalists</i> , Monterey, CA	2016
Li, D.H. and Gilly, W.F. Jet-propelled escape behavior in <i>Dosidicus gigas</i> (Humboldt squid). Poster presentation, <i>Western Society of Naturalists</i> , Sacramento, CA	2015

INVITED TALKS AND APPEARANCES

Panelist, "Careers in Science Outreach and Informal Education," <i>What Can You Be with a PhD</i> conference (virtual)	20 Nov 2021
Panelist, "Science Communication Careers Panel," <i>Columbia University Postdoctoral Society</i> , Columbia University (virtual)	29 Sept 2021
"Science Friday Trivia: Cephalopod Week Edition!" <i>Science Friday</i> (virtual)	23 June 2021
Panelist, "PhD SOAR Virtual Mentoring Event," <i>Stanford Medicine Alumni Association</i> , Stanford University (virtual)	10 March 2021
"Science Trivia Live with Squid Squad," <i>Skype a Scientist</i> (virtual)	25 June 2020
"The Seas vs. The Stars," <i>VERSUS</i> , Caveat, New York, NY	14 Dec 2019
"Now Screening: Cephalopod Movie Night!" <i>Science Friday Live</i> , California State Railroad Museum, Sacramento, CA	21 June 2019
"Sucker for Cephalopods? Cephalopod Week Has You Covered," <i>Science Friday</i> on National Public Radio	21 June 2019
Panelist, "Science Communication Careers," <i>MARINE Colloquium</i> , Moss Landing Marine Labs, Moss Landing, CA	11 May 2019
"The Cephalo-Inspired Technology of the Future," <i>Science Friday</i> on National Public Radio	23 June 2017
"How do squid thrive in their ever-changing environment?" <i>Pacific Grove Museum of Natural History</i> , Pacific Grove, CA	21 Feb. 2017

TEACHING

Guest Lecturer , California State University Monterey Bay, Vertebrate Physiology	2017-2018
Guest Lecturer , Stanford University, Invertebrate Zoology	2016
Teaching Assistant , Stanford University, Invertebrate Zoology	2016
Co-Instructor , Stanford Educational Studies Program, Snails Seastars and Slime: Adaptation and Behavioral Ecology in the Ocean	2015
Teaching Assistant , Stanford University, Cell Biology and Animal Physiology	2014

MENTORING & OUTREACH

Mentor	2016 – 2019
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Squids4Kids squid dissection facilitation, banner and sticker design, content assistance by N. Rhoades (2018-2019)

Squids4Kids squid dissection facilitation, EYH workshop teaching assistant, squid shipment logistics by L. Sepulveda (2018)

Influence of viscosity on squid hatchling swimming by CSUMB UROC intern H. Giebeler (2018) presented at national SACNAS conference

High-speed video collection of squid hatchling swimming by CSUMB intern A. Taleb (2017) featured on NPR's Science Friday

Video analysis by Salinas H.S. intern N. Courtright (2016) contributed to Berkenpas *et al.* (2017) paper

Program Coordinator & Educator, Squids4Kids – science education and outreach program 2013 – present
Squid dissection events include Bay Area Science Festival, California Academy of Sciences, Monterey Bay Aquarium, AAAS annual meeting, Monterey WhaleFest, and local schools

Founder, Editor, & Contributing Blogger, High Tidings – Blog for Stanford's Hopkins Marine Station 2018 – 2019
Station <https://hightidings.stanford.edu>

Workshop Leader, Expanding Your Horizons for 6th-12th grade girls in STEM 2018 – 2019

Contributing Blogger, The Dish on Science – A science blogging club for Stanford students 2016 – 2017
<https://thedishonscience.stanford.edu>

Outreach Co-Chair, Hopkins Marine Station Graduate Student Organization 2016 – 2017

Science Judge, Sea Lion Bowl – Northern California Regional Ocean Sciences Bowl 2016, 2015

Chair, Department of Ecology and Evolutionary Biology Undergraduate Committee, Princeton University 2013

PROFESSIONAL MEMBERSHIPS & ACTIVITIES

Society for Neuroscience

Coalition for the Public Understanding of Science

Society for Integrative and Comparative Biology

Western Society of Naturalists

Peer reviewer:

National Geographic Committee on Research and Exploration

Thalassas – International Journal of Marine Sciences