

Kate Thomas

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EDUCATION

- 2012-18 **Duke University**, Ph.D. in Biology (Advisor: Sönke Johnsen)
- 2006-10 **University of Oregon**, B.S. in Marine Biology, *summa cum laude*,
Robert D. Clark Honors College (Advisor: Alan Shanks)

RESEARCH EXPERIENCE

- 2018- **Postdoctoral Researcher**, Natural History Museum, London, UK
- 2016 **Graduate Intern**, Smithsonian National Museum of Natural History
(Advisor: Mike Vecchione)
- 2014 **Graduate Research Fellow**, National Evolutionary Synthesis Center
(Advisor: Craig McClain)
- 2014 **Summer Intern**, Monterey Bay Aquarium Research Institute (Advisor:
Bruce Robison)
- 2012 **Graduate researcher**, NSF International Research Experience for
Students, Lough Hyne, Ireland (Advisor: Cynthia Trowbridge)
- 2011 **Research apprentice**, Friday Harbor Labs, University of Washington,
(Advisor: Jan Newton)
- 2011 **Field technician**, Bird Research Northwest, Oregon State University
- 2009-10 **Undergraduate researcher**, Oregon Institute of Marine Biology,
University of Oregon (Advisor: Alan Shanks)

PUBLICATIONS

Thomas KN, Robison BH, Johnsen S. (2017) Two eyes for two purposes: *in situ* evidence for asymmetric vision in the cockeyed squids *Histioteuthis heteropsis* and *Stigmatoteuthis dofleini*. *Phil. Trans. R. Soc. B* 372: 20160069.

PRESENTATIONS (ORAL UNLESS NOTED)

- 2018 *Now you see me, now you don't: Cephalopod visual ranges and implications for deep-sea visual ecology.* **Society for Integrative and Comparative Biology Meeting**, San Francisco, CA
- 2017 *What big eyes you have: Eye scaling and visual range in cephalopods,* **Evolution Meeting**, Portland, OR
- 2017 *What big eyes you have: Eye scaling and visual range in cephalopods,* **Society for Integrative and Comparative Biology Meeting**, New Orleans, LA
- 2016 *The perks of being cock-eyed: Orientation and visual characteristics of histioteuthid squids,* **Smithsonian National Museum of Natural History, Invertebrate Zoology**, Washington, DC
- 2016 *Bioluminescence, body size, and depth in cephalopods,* **Living Light Conference**, La Jolla, CA
- 2016 *The perks of being cock-eyed: Orientation and visual characteristics of histioteuthid squids,* **Society for Integrative and Comparative Biology Meeting**, Portland, OR
- 2015 *The evolution and morphological diversification of bioluminescence in cephalopods,* **Cephalopod International Advisory Council Conference**, Hakodate, Hokkaido, Japan (poster)
- 2015 *Relationships between bioluminescence, body size, and depth in cephalopods,* **Deep-Sea Biology Symposium**, Aveiro, Portugal
- 2014 *Bioluminescent signals and the eyes that view them,* **Universidade Federal de São Carlos, Sorocaba**, Sorocaba, SP, Brazil
- 2014 *Visual ecology and photophore evolution in deep-sea bioluminescent squid,* **National Evolutionary Synthesis Center**, Durham, NC
- 2013 *Oxygen fluctuations and larval settlement in ephemeral algal beds of Lough Hyne, Ireland,* **Benthic Ecology Annual Meeting**, Savannah, GA
- 2012 *Oxygen cycles and larval settlement in ephemeral algae beds of Lough Hyne, Ireland,* **Women in Science and Engineering Symposium**, Duke University, Durham, NC
- 2012 *Oxygen cycles and larval settlement in ephemeral algae,* **University College Cork**, Cork, Ireland

- 2011 *Seasonal and tidal effects on water density gradients in the San Juan Channel, Friday Harbor Labs, University of Washington*, Friday Harbor, WA
- 2010 *The distribution of two marine cladocerans during upwelling and downwelling events off the Oregon coast, Western Society of Naturalists Annual Meeting*, San Diego, CA

TEACHING EXPERIENCE

- 2018 Instructor of Record, **Life in the Deep Sea**, Duke University
- 2018 **Certificate in College Teaching**, Duke University
- 2017 Teaching Assistant, **Gateway to Biology: Genetics and Evolution**, Duke University
- 2012 Teaching Assistant, **Symbiosis in the Marine Environment Workshop**, University of Oregon
- 2012 Teaching Assistant, **Biological Illustration Workshop**, University of Oregon
- 2010 Teaching Assistant, **Marine Birds and Mammals**, University of Oregon
- 2009 Teaching Assistant, **Invertebrate Zoology**, University of Oregon

HONORS, AWARDS, AND FELLOWSHIPS

- 2018 **Duke Data Expeditions Grant**, Information Initiative at Duke University (\$1,500)
- 2017-18 **Katherine Goodman Stern Fellowship**, Duke Graduate School (\$22,912)
- 2017 **Graduate Student Training Enhancement Grant**, Duke University (\$3,300)
- 2017 **Summer Research Fellowship**, Duke Graduate School (\$5,500)
- 2016 **Graduate Research Internship Program**, National Science Foundation & Smithsonian Institution (\$5,000)
- 2014-17 **Biology Grant-in-Aid**, Duke University Biology Department (\$1,000; \$1,000; \$1,000)

- 2014-16 **Domestic Dissertation Travel Award**, Duke Graduate School (\$1,000; \$1,928; \$2,000)
- 2014 **Graduate Student Fellowship**, National Evolutionary Synthesis Center (\$12,100)
- 2014 **Graduate Student Exchange Grant**, Duke Brazil Initiative (\$3,000)
- 2014 **Grant-in-Aid of Research**, Duke University Graduate School (\$1,000)
- 2014 **Grant-in-Aid of Research**, Sigma Xi (\$1,000)
- 2013 **Graduate Research Fellowship**, National Science Foundation (\$132,000)
- 2013 **Outreach Grant**, Duke Center for Science Education (\$880)
- 2013 **Outreach Grant**, Duke Center for Science Education (\$822)
- 2010- **Phi Beta Kappa Academic Honor Society**
- 2010 **Distinction in Undergraduate Honors Thesis**, Clark Honors College, University of Oregon
- 2010 **Department of Biology Valedictorian**, University of Oregon
- 2009-10 **Clarence and Lucille Dunbar Scholarship** (\$5,000)
- 2009-10 **Ida M. Crawford Scholarship** (\$900)
- 2009-10 **Phyllis Para Talus Presidential Fellowship**, University of Oregon (\$2,225)
- 2010 **Neil Richmond Fellowship**, Oregon Sea Grant (\$500)
- 2009 **Laura Bickerstaff Scholarship**, Oregon Institute of Marine Biology (\$1,000)
- 2008-09 **Jean Wittemyer Memorial Scholarship**, Clark Honors College, University of Oregon (\$2,000)
- 2007-08 **Mike and Betty Pongracz Scholarship**, Oregon Student Access Commission (\$3,000)
- 2006-10 **University of Oregon Presidential Scholarship** (\$24,000)
- 2006-10 **Merritt and Aileen Truax Scholarship** (\$8,000)

2006-09 **University of Oregon Dean's List**

2006-07 **Withnell Undergraduate Music Scholarship** (\$1,000)

2006 **OSU Federal Credit Union Scholarship** (\$1,000)

2006 **Gannett National Merit Scholarship** (\$3,000)

PUBLIC OUTREACH AND EDUCATION

2017 **Duke Alumni Continuing Education**, Duke Marine Lab; *Lectures and labs about deep-sea biology for Duke alumni of all ages*

2017 **Seminar**, Duke Marine Science and Conservation Student Leaders organization; *Research and career path talk to undergraduate marine science students.*

2017 **Science Round-Robin**, Durham School of the Arts, Durham, NC (K-12); *8th grade classroom visit aimed at individual student interactions with scientists.*

2016 **Triangle STEM/MAT Network**, Raleigh, NC (K-12); *Partnering scientists with education students to create lesson plans for K-12 teachers.*

2015-16 **Letters to a Pre-Scientist**, USA (K-12); *Yearly pen-pal program matching scientists with low-income middle school students.*

2015 **NOAA Ocean Explorer**, R/V Pelican, Gulf of Mexico; *Online mission logs and photos for public engagement during a research cruise.*

2014-16 **Invite-a-scientist Program**, North Carolina Science Festival, Wake Young Women's Leadership Academy & NL Dillard Middle School (K-12); *Middle school classroom visits to encourage students to opt in to science classes, which are optional in the NC system.*

2015 **Darwin Day Roadshow**, National Evolutionary Synthesis Center, Hawaii (K-12); *Classroom visits at 10 public schools to talk to students about evolution, science research, and science careers.*

2014 **Plant defenses outreach**, Lowe's Grove Middle School, Durham, NC (K-12); *Co-organized an outreach event that taught modules on plant adaptations to more than 150 8th graders at a local low-income school.*

2014 **Animal vision outreach**, Lowe's Grove Middle School, Durham NC (K-12); *Led an outreach event that taught modules on animal vision and eye diversity to more than 150 6th graders at a local low-income school.*

- 2013, 15 **Science Day at Club Boulevard Elementary**, Durham, NC (K-12); *Led activities at a one-day interactive science fair for K-2nd grade students.*
- 2013-16 **Duke Biology Graduate Outreach Committee**, Duke University; *Facilitated outreach opportunities for graduate students by applying for funding and connecting local schools, museums, and educational events with the graduate community.*
- 2013-17 **Bugapalooza**, Schiele Museum, Gastonia, NC; *Co-organized and ran an interactive live insect booth at a bug-themed science fair for families.*
- 2013 **Science Under the Stars**, Duke University, Durham, NC; *Volunteered at a hands-on science fair for children of all ages.*
- 2012 **Research at Lough Hyne blog**, Skibbereen, Ireland; *Co-created and wrote for a blog outlining ongoing field research in Lough Hyne, Ireland.*
- 2012 **Marine science workshop**, Oregon Institute of Marine Biology, Charleston, OR (K-12); *Helped run a workshop for Native American high school students as part of a free two-week residency program that encourages working toward a college education.*