

CURRICULUM VITAE  
**ANNA B. NEUHEIMER**

Associate Professor,  
Biological Oceanography,  
University of Hawai'i at Mānoa, USA  
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## 1 EDUCATION

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Doctorate	Oceanography, Dalhousie University, Canada, 2002-2008 <i>Dissertation: "Growth in fishes: Size-at-age, temperature and food"</i>
Undergraduate	Bachelor of Science, Honours with Distinction, 1997-2001 <i>Marine and Freshwater Biology, University of Guelph, Canada</i> <i>Biology, Carleton University, Canada (first year)</i>
	Media Training, 2018 <i>Aarhus University, Aarhus, Denmark</i>
	Applied Longitudinal Analysis Workshop, 2017 <i>American Statistical Association, Honolulu, USA</i>
Professional Development	Training in Bayesian Modeling for Practicing Ecologists, 2016 <i>Colorado State University, Fort Collins, USA</i>
	Software Carpentry Course, 2015 <i>University of Hawai'i at Mānoa, Honolulu, USA</i>
	Hawaiian Studies, HWST 107 Hawai'i : Center of the Pacific, 2013 (Audited) <i>University of Hawai'i at Mānoa, Honolulu, USA</i>
	Stock Assessment Course, 2011 <i>International Council for the Exploration of the Sea, Denmark</i>
	University Pedagogy Course, 2011 <i>Aarhus University, Aarhus, Denmark</i>

## 2 ACADEMIC APPOINTMENTS & RESEARCH EXPERIENCE

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Associate Professor with tenure 2018 - Present  
*School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA*  
Currently on leave for AIAS-COFUND Fellowship

- Associate Professor, 2-year AIAS-COFUND Fellowship 2018 - Present  
*Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark*
- Assistant Professor 2013 – 2018  
*School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA*
- Postdoctoral Fellow 2012  
*Center for Macroecology, Evolution and Climate, DTU Aqua & University of Copenhagen, Denmark. Advisor: B.R. MacKenzie*
- Postdoctoral Fellow 2009 – 2012  
*Department of Bioscience, Aarhus University, Denmark. Advisor: P. Grønkjær*
- Endeavour Research Fellow 2009 – 2010  
*Commonwealth Scientific and Industrial Research Organisation, Australia. Advisor: R.E. Thresher*
- Postdoctoral Fellow 2007 – 2009  
*Engineering Mathematics and Internetworking, Dalhousie University, Canada. Advisor: W. Gentleman*
- Ph.D. Candidate 2002 – 2007  
*Oceanography, Dalhousie University, Canada (Degree awarded 15 May 2008)*
- Biotechnology Research Policy Intern 2001 – 2002  
*Canadian Biotechnology Secretariat, Canada*
- Research Assistant 2001  
*Zoology, University of Guelph & Huntsman Marine Science Centre, Canada*
- Honours Research Project 2001  
*Zoology, University of Guelph, Canada*
- Marine Biology and Oceanography Field Course 2000  
*Huntsman Marine Science Center, Canada*
- Field Experience
- 2014 Station ALOHA, North Pacific Subtropical Gyre  
*13-day cruise to sample food web; Vessel: RV Kilo Moana*
  - 2011 Aarhus Bay, Denmark:  
*1-day instruction assistant for Fisheries Oceanography course; Vessel: RV Tyra*
  - 2011 Aarhus Bay, Denmark:  
*1-day instruction assistant for Fish Biology course; Vessel: RV Tyra*

- 2010 Aarhus Bay, Denmark:  
*1-day flatfish sampling; Vessel: RV Tyra*
- 2003 Southern Gulf of St. Lawrence, Canada:  
*13-day cod prey-field survey (principal investigator); Vessel: RV Opilio*

### 3 TEACHING EXPERIENCE

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Guest Lecturer	2018 - Present
<i>Department of Bioscience, Aarhus University, Denmark</i>	
Courses: Aquatic Biology, Marine Ecosystems, Experimental Aquatic Ecology	
Instructor	2014 - Present
<i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	
Course: OCN 621 Biological Oceanography	
Course Creator / Instructor	2013 - Present
<i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	
Course: OCN 682 Introduction to Programming and Statistics in R	
Organizer	2017
<i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	
Course: OCN 780 Departmental Seminar	
Guest Lecturer	2013-2017
<i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	
Courses: OCN 490 Communications of Research Results; OCN 627: Ecology of Pelagic Animals	
Course Creator / Instructor	2016
<i>Department of Bioscience, Aarhus University, Denmark</i>	
Short-course: Programming and Statistics for the Aquatic Sciences	
Guest Lecturer	2012
<i>Danish Technical University, DTU Aqua, Denmark</i>	
Courses: Fisheries Oceanography	
Contributor	2011
<i>Department of Biological Sciences, Aarhus University, Denmark</i>	
Course: Biological Research in Theory and Practice	
Co-Instructor	2011
<i>Department of Biological Sciences, Aarhus University, Denmark</i>	
Course: Fisheries Oceanography	
Guest Lecturer	2010 - 2011
<i>Department of Biological Sciences, Aarhus University, Denmark</i>	
Course: Biological and Physical Oceanography	
Instructor	2009
<i>Engineering Mathematics, Dalhousie University, Canada</i>	
Course: Ecosystem Modelling of Marine and Freshwater Environments	

Guest Lecturer	2009
<i>Oceanography, Dalhousie University, Canada</i>	
Course: Fisheries Oceanography	
Teaching Assistant	2007
<i>Oceanography, Dalhousie University, Canada</i>	
Course: Fisheries Oceanography	
Guest Lecturer	2005 – 2007
<i>Oceanography, Dalhousie University, Canada</i>	
Course: Fisheries Oceanography	

## 4 ADVISING

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### 4.1 Primary advisor/Advisory committee chair

- 2016- S. Lal, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa* (co-advisor with M. McManus)
- 2016-2017 C. Esquivel, *Undergraduate, Global Environmental Science, University of Hawai'i at Mānoa*
- 2015 T. Jackson, *Undergraduate, Biology, University of Hawai'i at Mānoa*  
Jackson is currently preparing a manuscript for submission based on her thesis.
- 2014-2017 J. Wong-Ala, *Undergraduate, Global Environmental Science, University of Hawai'i at Mānoa*  
During mentorship, Wong-Ala was awarded the 2015 National Oceanic and Atmospheric Administration Ernest F. Hollings Scholarship Program, 2015 Pacific Islands Fisheries Science Center Young Scientist Opportunity, 2015 Massachusetts Institute of Technology CONVERGE Opportunity, and a number of travel awards to international conferences. In addition, Wong-Ala won the 2015 Early Career Scientist Best Presentation Award at the 2015 International Council for the Exploration of the Sea Annual Science Conference (Copenhagen, Denmark). Wong-Ala published her thesis as a paper in *Frontiers of Marine Science* and is now a MSc student at Oregon State University.
- 2014-2017 M. Ferguson, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*  
During mentorship, Ferguson was awarded a full scholarship to attend an ADMB-TMB (AD Model Builder – Template Model Builder) workshop at the University of Washington. Ferguson is currently preparing a manuscript for submission based on her thesis.
- 2014-2016 C. Chang, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*  
During mentorship, Chang was awarded a full scholarship to attend the 2015 Open Science Grid User School (University of Wisconsin Madison). Chang is currently preparing a manuscript for submission based on her thesis.

#### 4.2 *Advisory committee member*

- 2019- J. Perelman, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2018- J. Bullington, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2018- J. Black, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2017-2018 E. Brush, *PhD Candidate, Zoology, University of Hawai'i at Mānoa*
- 2017-2018 E. Barba, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2016-2018 M. Hoban, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2016-2018 E. Lenz, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2016 H.Y. Chang, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2016 J. Buehler, *PhD Candidate, Zoology, University of Hawai'i at Mānoa*
- 2016-2018 C. Genovese, *PhD Candidate, Zoology, University of Hawai'i at Mānoa*
- 2015-2018 R. Geronimo, *PhD Candidate, Geography, University of Hawai'i at Mānoa*
- 2014-2017 M. Gerringer, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2014 G. Pérez-Andújar, *MSc Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2014- S. Scherrer, *PhD Candidate, Marine Biology, University of Hawai'i at Mānoa*
- 2013-2018 A. Leitner, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2013 E. Nuss, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2013-2017 G. Del Raye, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2013-2016 G. Giorli, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2013-2016 J. Wren, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2013 E. Norton, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*

#### 4.3 *Exam committee member/Thesis reviewer/Other formal mentorship*

- 2017 D. Hull, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2017 M. Siegelman, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2016 R. Geronimo, *PhD Candidate, Geography, University of Hawai'i at Mānoa*
- 2016 A. Gallego, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2016 A. Smith, *Undergraduate, Global Environmental Science, University of Hawai'i at Mānoa*
- 2015 A. Trujillo, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2015 V. Futch, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 2008-2009 Assistant supervisor for undergraduate and graduate students in the Department of Engineering Mathematics and Internetworking, Dalhousie University, Canada
- 2004-2007 Assistant supervisor for undergraduate students in the Department of Oceanography, Dalhousie University, Canada

4.4 *Informal mentoring – providing advice to those (students, postdoctoral fellows) for whom I have no formal advisory committee role.*

2018-	Department of Bioscience, Aarhus University, Denmark (5 students)
2016	Department of Bioscience, Aarhus University, Denmark (2 students)
2016	Punahou School, Honolulu, Hawai'i (1 student)
2013-	University of Hawai'i at Mānoa (15 students)
2012	Center for Macroecology, Evolution and Climate, DTU Aqua & University of Copenhagen, Denmark (2 students)
2009-2012	Department of Bioscience, Aarhus University, Denmark (3 students)

## 5 FUNDING

### 5.1 Current funding

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
H2020 Marie Skłodowska-Curie Actions	“SPITFIRE” (SPatial variability and Implications of the Timing of Fish Responses to the Environment)	11/2018-10/2020	208 400 EUR (1 556 215)	Ferreira (co-PI), Durant (co-PI), Neuheimer (project partner)
AIAS-COFUND Fellowship, Aarhus Universitets Forskningsfond & European Union's 7 <sup>th</sup> Framework Programme, Marie Curie Actions (609033)	Timing is everything: Developing a mechanistic understanding of fish timing strategies and their role as conduits of climate change (FutureFish)	02/2018-01/2020	1 514 169	Neuheimer
University of Hawaii Sea Grant Program, USA	Enabling real-time predictive modeling of microbial pathogen risk along the Honolulu shoreline	02/2018-01/2020	89 930 USD (585 387)	Nelson (PI), Neuheimer (Co-I), Steward (Co-I), McManus (Co-I)
H2020 Marie Skłodowska-Curie Actions	Parasitism and climate change: A tipping point for blue mussel populations? (TPOINT)	24 months	207 312 EUR (1 547 700)	Selbach (co-PI), Mouritsen (co-PI), Neuheimer (project partner)

## 5.3 Past funding

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
National Oceanic and Atmospheric Administration, USA	Funding for MSc student M. Ferguson	09/2016-12/2017	24 912 USD (162 152)	Ferguson - supervised by Neuheimer
Research Council of Norway, Norway	Visiting Researcher funds for Neuheimer to visit the Centre for Ecological and Evolutionary Synthesis, University of Oslo	06/2017	19 580 NOK (14 930)	Durant
R. Toonen, University of Hawai'i at Mānoa, USA	Funds to support GES student Wong-Ala	09/2016-05/2017	8 000 USD (52 072)	Wong-Ala - supervised by Neuheimer
Aarhus University, Denmark	Visiting Researcher funds & honorarium for Neuheimer to visit the Department of Bioscience, Aarhus University	07/2016-08/2016	103 339	Neuheimer & Grønkjær
National Science Foundation, USA	Participant stipend for Training in Bayesian Modeling for Practicing Ecologists workshop.	05/2016	1000 USD (6 509)	N. Thompson Hobbs (Award # 1145200)
Joint Institute for Marine and Atmospheric Research, USA	Travel award for C-MORE Scholar Wong-Ala	09/2015	4 500 USD (29 290)	Wong-Ala - supervised by Neuheimer
National Oceanic and Atmospheric Administration, USA	Funding for MSc student Ferguson	09/2015-05/2016	24 912 USD (162 152)	Ferguson - supervised by Neuheimer

## 5.3 Past funding (cont.)

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
Center for Microbial Oceanography - Research & Education (C-MORE), USA	C-MORE Scholar - Funding for Wong-Ala	09/2015-05/2016	8 000 USD (52 072)	Wong-Ala - supervised by Neuheimer
M. Hixon, University of Hawai'i at Mānoa, USA	Funds to support computing on UH High-Performance Computing	2015-2016	1 400 USD (9 113)	Neuheimer
University of Oslo, Norway	Visiting Researcher funds for stay at the Centre for Ecological and Evolutionary Synthesis - Investigating natural mortality in fish early life stages	09/2015	23 880 NOK (18 209)	Neuheimer
University of Copenhagen, Denmark	Visiting Researcher Honorarium for stay at the Center for Macroecology Evolution & Climate - Investigating match-mismatch dynamics in larval fish	05/2014 - 06/2014	73 678	Neuheimer
National Oceanic and Atmospheric Administration, USA	Funding for MSc student Ferguson	09/2014-05/2015	24 912 USD (162 152)	Ferguson - supervised by Neuheimer
Center for Microbial Oceanography - Research & Education (C-MORE), USA	C-MORE Scholar - Funding for Wong-Ala	09/2014-05/2015	8 000 USD (52 072)	Wong-Ala - supervised by Neuheimer
University of Hawaii Sea Grant Program, USA	Leveraging a new observation network to understand management options for a key living resource - Onaga ( <i>Etelis coruscans</i> )	2014-2016	67 887 USD (441 876)	Weng (PI), Neuheimer (Co-I)

## 5.3 Past funding (cont.)

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
E. Goetze, University of Hawai'i at Mānoa, USA	Funding for MSc student Chang	09/2014-05/2015	26 400 USD (171 838)	Chang-supervised by Neuheimer
DTU Aqua & University of Copenhagen, Denmark	Postdoctoral Fellowship	2012	697 068	Neuheimer
Aarhus University, Denmark	Postdoctoral Fellowship	2009 - 2012	780 360	Neuheimer
Natural Sciences and Engineering Research Council of Canada, Canada	NSERC Visiting Fellowship, St. Andrew's Biological Station, Fisheries and Oceans Canada (Declined)	2009	90 000 CAD (441 572)	Neuheimer
Australian Endeavour Scholarships and Fellowships, Australia	Australian Endeavour Research Fellowship	2009	23 500 AUD (110 469)	Neuheimer
Mathematics of Information Technology and Complex Systems (MITACS), Canada	ACCELERATE Mathematics of Information Technology and Complex Systems (MITACS) Postdoctoral Internship	2009	7 500 CAD (36 798)	Neuheimer
Fisheries and Oceans Canada, Canada	Postdoctoral Grant, Northwest Atlantic Fisheries Centre	2009	7 500 CAD (36 798)	Neuheimer
University of California, Santa Cruz and the National Marine Fisheries Service, USA	Postdoctoral Fellowship (Declined)	2009	45 000 USD (292 905)	Neuheimer

## 5.3 Past funding (cont.)

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
Mathematics of Information Technology and Complex Systems (MITACS), Canada	Mathematics of Information Technology and Complex Systems (MITACS) Postdoctoral Internship	2008	15 000 CAD (73 595)	Neuheimer
Fisheries and Oceans Canada, Canada	Postdoctoral Grant, Northwest Atlantic Fisheries Centre	2008	15 000 CAD (73 595)	Neuheimer
Dalhousie University, Canada	Postdoctoral Fellowship	2007	36 000 CAD (176 623)	Neuheimer
Natural Sciences and Engineering Research Council of Canada (NSERC), Canada	Postgraduate Scholarship - Doctoral	2005	42 000 CAD (206 067)	Neuheimer
Natural Sciences and Engineering Research Council of Canada (NSERC), Canada	Postgraduate Scholarship - Master's	2003	34 600 CAD (169 760)	Neuheimer
Dalhousie University, Canada	Dalhousie University Research Funding Grant	2002	13 739 CAD (67 408)	Neuheimer
Dalhousie University, Canada	Dalhousie University Faculty of Graduate Studies Scholarship	2002	2 761 CAD (13 546)	Neuheimer

## 6 NOMINATIONS &amp; AWARDS

2019	ASLO Yentsch-Schindler Award for Early-Career Aquatic Scientists	Nomination
2017	Board of Regents Excellence in Teaching Award, University of Hawai'i at Mānoa, USA	Departmental nomination
2017	Peter V. Garrod Distinguished Graduate Mentoring Award, University of Hawai'i at Mānoa, USA	Departmental nomination

2017	Travel award to attend 31 <sup>st</sup> Wakefield Symposium as invited speaker, Alaska Sea Grant, USA	1 581 USD (10 291)
2016	Participant stipend for Training in Bayesian Modeling for Practicing Ecologists workshop, USA	1 000 USD (6 509)
2016	ASLO Yentsch-Schindler Award for Early-Career Aquatic Scientists	Nomination
2014	Sloan Research Fellowship	Nomination
2014	Simons Investigators in the Mathematical Modeling of Living Systems	University nomination
2014	NSF Data-Enabled Science & Engineering Research Traineeship Program, Co-PI	University nomination
2014	ASLO Yentsch-Schindler Award for Early-Career Aquatic Scientists	Nomination
2013	ASLO Yentsch-Schindler Award for Early-Career Aquatic Scientists	Nomination
2013	Sloan Research Fellowship	Nomination
2008	Dalhousie University Doctoral Thesis Award in the Natural and Medical Sciences and Engineering	Departmental Nomination
2006	Canadian Conference For Fisheries Research Clemens-Rigler Travel Award, Canada	250 CAD (1 227)
2005	Canadian Conference For Fisheries Research Clemens-Rigler Travel Award, Canada	250 CAD (1 227)
2005	Faculty of Graduate Studies Conference Travel Grant, Canada	750 CAD (3 680)
1998	Carleton University William E. Beckel Scholarship, Canada	2 500 CAD (12 266)
1997	Carleton University Faculty of Science Award, Canada	500 CAD (2 453)
1997	Carleton University President's Scholarship, Canada	2 000 CAD (9 813)
1997	University of Guelph University Scholarship, Canada	1 600 CAD (7 850)
2001	Dean's Honours List - University of Guelph	
2000	Dean's Honours List - University of Guelph	
1998	Dean's Honours List - Carleton University	
1997	Dean's Honours List - Carleton University	

## 7 PUBLICATIONS

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Please note:

- The significance of author order varies due to the interdisciplinary nature of my work. Author order significance is identified with:
  - \* author order by “contribution-determines-sequence”: sequence of authors reflects the declining importance of their contribution with first author contributing most.
  - ^ author order by “first-last-author-emphasis”: Greatest contribution from first and last authors with declining levels of contribution for authors in between.
  - # author order by “first-last-author-emphasis-with-alphabetical”: Greatest contribution from first and last authors with equal levels of contribution for authors in between.
 (adapted from Tschardt et al. 2007. PLoS Biol 5(1): e18)
- Double underlining indicates my student (i.e. I chaired their advisory committee) while single underlining indicates students from other labs whom I mentored for the publication.
- Citation rate from Google Scholar as of 23 June 2019.

### 7.1 Peer-Reviewed

- **Neuheimer, A.B.** 2019. The pace of life: Time, temperature and a biological theory of relativity. BioRxiv preprint. doi: 10.1101/609446. Under review at *Fish and Fisheries*.
- ^Leitner, A.B., **A.B. Neuheimer** & J. C. Drazen. Unraveling the mystery of seamount-enhanced primary production. *Under review at Nature Communications*.
- 1. ^Stige, L.C., L.A. Rogers, **A.B. Neuheimer**, M.E. Hunsicker, N.A. Yaragina, G. Ottersen, L. Ciannelli, Ø. Langangen, & J. M. Durant. Density- and size-dependent mortality in fish early life-stages. *In press. Fish and Fisheries*.
- 2. ^Conklin, E.E., **A.B. Neuheimer** & R.J. Toonen. 2018. Modeled larval connectivity of a multi-species reef fish and invertebrate assemblage off the coast of Moloka'i, Hawai'i. *PeerJ* 6:e5688 *Times cited: 1*
- 3. \***Neuheimer, A.B.**, B.R. MacKenzie & M.R. Payne. 2018. Temperature-dependent adaptation allows fish to meet their food across their species' range. *Science Advances*. 4:eaar4349 *Times cited: 1*  
*In the Press: EurekAlert!, Phys.org, ScienceDaily*
- 4. #Wong-Ala, J.A.T.K., C.M. Comfort, J.M. Gove, M.A. Hixon, M.A. McManus, B.S. Powell, J.L. Whitney, & **A.B. Neuheimer**. 2018. How life history characteristics and environmental forcing shape settlement success of coral reef fishes. *Frontiers in Marine Science* 5:65 doi: 10.3389/fmars.2018.00065. *Times cited: 2*
- 5. ^Giorli, G., J.C. Drazen, **A.B. Neuheimer\***, A. Copeland, & W.W.L. Au. 2018. Deep sea animal density and size estimated using a Dual-frequency IDentification SONar (DIDSON) offshore the island of Hawai'i. *Progress in Oceanography* 160:155-166. *Times cited: 2*

6. \*Comfort, C.M., K.A. Smith, M.A. McManus, **A.B. Neuheimer**, J.S. Sevadjan, & C.E. Ostrander. 2017. Observations of the Hawaiian mesopelagic boundary community in daytime and night time habitats using estimated backscatter. *AIMS Geosciences*. DOI: 10.3934/geosci.2017.3.304.
7. ^Leitner, A.B., **A.B. Neuheimer**, E. Donlon, C.R. Smith, & J.C. Drazen. 2017. Environmental and bathymetric influences on abyssal bait-attending communities of the Clarion Clipperton Zone. *Deep-Sea Research Part I* 125:65-80. *Times cited: 9*
8. ^Giorli, G., **A.B. Neuheimer**, A. Copeland, W. Au. 2016. Temporal and spatial variation of beaked and sperm whales foraging activity in Hawai'i, as determined with passive acoustics. *Journal of the Acoustical Society of America*. 140(4):2333. *Times cited: 6*
9. ^Giorli, G., **A.B. Neuheimer**, W. Au. 2016. Spatial variation of deep diving odontocetes' occurrence around a canyon region in the Ligurian Sea as measured with acoustic techniques. *Deep-Sea Research I*: 116:88-93. *Times cited: 1*
10. #**Neuheimer, A.B.**, M. Hartvig, J. Heuschele, S. Hylander, T. Kiørboe, K.H. Olsson, J. Sainmont, and K.H. Andersen. 2016. Adult and offspring size in the ocean: A database of size metrics and conversion factors. *Ecology* 97:1083. *Times cited: 4*
11. \*Gove, J.M., M.A. McManus, **A.B. Neuheimer**, J.J. Polovina, J.C. Drazen, C.R. Smith, M.A. Merrifield, A.M. Freidlander, J.S. Ehse, C. Young, A.K. Dillon, & G.J. Williams. 2016. Ocean oases: near-island biological hotspots in barren ocean basins. *Nature Communications*. 7:10581. *Times cited: 53*  



*In the Press: The New York Times, IFLScience, The Conversation, EurekAlert!, Phys.org, Newswise, Health Medicine Network, AZO Cleantech, Environmental Research Web*
12. ^Teneva, L.T., M.A. McManus, C. Jerolmon, **A. B. Neuheimer**, S. J. Clark, G. Walker, K. Kaho'ohalahala, E. Shimabukuro, C. Ostrander, J.N. Kittinger. 2016. Understanding reef flat sediment regimes and hydrodynamics can inform erosion mitigation on land. *Collabra*, 2: 1-12. *Times cited: 4*  

*In the Press: Hawaii Public Radio, Phys.org*
13. \*Giorli G., W. Au, H. Ou, & **A.B. Neuheimer**. 2016. Differences in the foraging strategy of deep diving odontocetes in the Ligurian Sea determined by passive acoustic recorders. *Deep-Sea Research Part I*, 107:1-8. *Times cited: 11*
14. #Andersen, K.H., T. Berge, R.J. Gonçalves, M. Hartvig, J. Heuschele, S. Hylander, N.S. Jacobsen, C. Lindemann, E.A. Martens, **A.B. Neuheimer**, K. Olsson, A. Palacz, F. Prowe, J. Sainmont, S.J. Traving, A.W. Visser, N. Wadhwa, and T. Kiørboe. 2016. Characteristic Sizes of Life in the Oceans, from Bacteria to Whales. *Annu. Rev. Mar. Sci.* 8:3.1-3.25. *Times cited: 61*
15. #**Neuheimer, A.B.**, M. Hartvig, J. Heuschele, S. Hylander, T. Kiørboe, K.H. Olsson, J. Sainmont, and K.H. Andersen. 2015. Adult and offspring size in the ocean over 17 orders of magnitude follows two life history strategies. *Ecology* 96:3303-3311. *Times cited: 18*
16. \***Neuheimer, A.B.**, & B.R. MacKenzie. 2014. Explaining life history variation in a changing climate across a species' range. *Ecology*. 95:3364-3375. *Times cited: 8*

17. \*Brander, K., **A.B. Neuheimer**, K.H. Andersen, & M. Hartvig. 2013. Overconfidence in model projections. *ICES Journal of Marine Science* 70:1065-1068. *Times cited: 37*
18. \***Neuheimer, A.B.**, & P. GrønkJær. 2012. Climate effects on size-at-age: Growth in warming waters compensates for earlier maturity in an exploited marine fish. *Global Change Biology*, 18:1812-1822. *Times cited: 45*  
*In the Press: Jyllands Posten*
19. \***Neuheimer, A.B.**, R.E. Thresher, J.M. Lyle & J.M. Semmens. 2011. Tolerance limit for fish growth exceeded by warming waters. *Nature Climate Change* 1:110-113. *Selected for cover, Times cited: 165*  
*In the Press: Nature Climate Change, Australasian Science, Phys.org*
20. \***Neuheimer, A.B.**, W.C. Gentleman, & P. Pepin. 2010. Explaining regional variability in copepod recruitment: Implications for a changing climate. *Progress in Oceanography* 87: 94-105. *Times cited: 19*
21. \***Neuheimer, A.B.**, & C.T. Taggart. 2010. Can changes in length-at-age and maturation timing in Scotian Shelf haddock (*Melanogrammus aeglefinus*) be explained by fishing? *Canadian Journal of Fisheries and Aquatic Sciences* 67: 854-865. *Times cited: 40*
22. \***Neuheimer, A.B.**, W.C. Gentleman, P. Pepin, & E. Head. 2010. How to build and use individual-based models (IBMs) as hypothesis testing tools. *Journal of Marine Systems* 81:122-133. *Times cited: 27*
23. \***Neuheimer, A.B.**, W.C. Gentleman, C.L. Galloway & C.L. Johnson. 2009. Modeling larval *Calanus finmarchicus* on Georges Bank: Time-varying mortality rates and a cannibalism hypothesis. *Fisheries Oceanography* 18: 147-160. *Times cited: 26*
24. \*Gentleman, W.C., & **A.B. Neuheimer**. 2008. Functional responses and ecosystem dynamics: How clearance rates explain the influence of satiation, food-limitation and acclimation. *Journal of Plankton Research* 30: 1215-1231. *Times cited: 57*
25. \*Gentleman, W.C., **A.B. Neuheimer**, & R.G. Campbell. 2008. Modeling copepod development: Current limitations and a new realistic approach. *ICES Journal of Marine Science* 65: 399-413. *Times cited: 36*
26. \***Neuheimer, A.B.**, C.T. Taggart, & K.T. Frank. 2008. Size-at-age in haddock (*Melanogrammus aeglefinus*) - application of the growing degree-day (GDD) metric. *Proceedings of the 24th Lowell Wakefield Fisheries Symposium: Resiliency of Gadid Stocks to Fishing and Climate Change Symposium: 111-123. Times cited: 7*
27. **Neuheimer, A.B.** 2007. Growth in fishes: size-at-age, temperature and food. Ph.D. Thesis, Department of Oceanography, Dalhousie University, Halifax, Canada. *Times cited: 3*
28. \***Neuheimer, A.B.**, & C.T. Taggart. 2007. The growing degree-day and fish size-at-age: the overlooked metric. *Canadian Journal of Fisheries and Aquatic Sciences* 64: 375-385. *Times cited: 209*

## 7.2 Other

- **Neuheimer, A. B.**, Hartvig, M., Heuschele, J., Hylander, S., Kiørboe, T., Olsson, K. H., Sainmont, J. and Andersen, K. H. 2015. Offspring Size in Marine Animals. *The*

Bulletin of the Ecological Society of America, 96: 662–663. doi:10.1890/0012-9623-96.4.662

- Wong-Ala, J., A.B. Neuheimer, B.S. Powell & M. Hixon. 2015. The influence of life history variability on population connectivity: Development and application of a trait-based biophysical model of individuals. International Council for the Exploration of the Sea Document CM 2015/E:11.
- **Neuheimer, A.B.**, M.R. Payne, & B.R. MacKenzie. 2015. Controlling factors in fish early life history and how they combine to influence trophic links across the North Atlantic Ocean. International Council for the Exploration of the Sea Document CM 2015/S:06.
- **Neuheimer, A.B.** 2011. Fish in Hot Water. Article for Australasian Science, December 2011, p. 34-35. (*Invited*)
- **Neuheimer, A.B.**, & C.T. Taggart. 2009. Climate and fishing: Disentangling factors affecting the growth in Scotian shelf haddock (*Melanogrammus aeglefinus*). International Council for the Exploration of the Sea Document CM 2009/E:31.
- **Neuheimer, A.B.**, W.C. Gentleman, P. Pepin & E. Head. 2008. How to build and use individual-based models (IBMs) as hypothesis testing tools. International Council for the Exploration of the Sea Document CM 2008/L:09.
- **Neuheimer, A.B.**, C.T. Taggart, & J.M. Hanson. 2008. Disentangling variation in fish growth: Evidence for size-selection in southern Gulf of St. Lawrence cod (*Gadus morhua*). International Council for the Exploration of the Sea Document CM 2008/J:06.
- Gentleman, W.C., & **A.B. Neuheimer**. 2008. Functional responses and ecosystem dynamics: The roles of satiation, food-limitation and acclimation. International Council for the Exploration of the Sea Document CM 2008/Q:03.

## 8 PRESENTATIONS (*Underlining indicates mentee*)

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### 8.1 *Invited presentations*

1. **Neuheimer, A.B.** 2019. The pace of life: Time, temperature and a biological theory of relativity. *Department of Biology, University of Hamburg, Hamburg, Germany.*
2. **Neuheimer, A.B.** 2018. The pace of life: Time, temperature and a biological theory of relativity. *National Institute of Aquatic Resources, Technical University of Denmark, Lyngby, Denmark.*
3. **Neuheimer, A.B.** 2018. The pace of life: Time, temperature and a biological theory of relativity. *Aarhus Institute of Advanced Studies, Aarhus University, Aarhus, Denmark.*
4. **Neuheimer, A.B.**, B.R. MacKenzie, & M.R. Payne. 2018. Spawning time variability allows first-feeding cod to meet their food across their species' range. *Day of the Cod, National Institute of Aquatic Resources, Technical University of Denmark, Lyngby, Denmark.*
5. **Neuheimer, A.B.** 2018. How life history and the environment shape settlement success of coral reef fishes. *Department of Bioscience, Aarhus University, Aarhus, Denmark.*

6. Wong-Ala, J., C.M. Comfort, J. Gove, M.A. Hixon, M. A. McManus, B.S. Powell, J.L. Whitney & **A.B. Neuheimer**. 2017. Life history strategies shape larval reef fish recruitment off west Hawai'i Island. *Symposium on West Hawai'i's Marine Ecosystem, Kona, USA*.
7. **Neuheimer, A.B.** 2017. Factors controlling larval fish timing at high latitudes: Implications for production, distribution and adaptation over time. *31<sup>st</sup> Wakefield Symposium, Anchorage, USA*.
8. **Neuheimer, A.B.** 2017. How larval fish find their season at high and low latitudes. *Conference of Biological Oceanography Graduate Students, University of Hawai'i at Mānoa, Honolulu, USA. (Invited Plenary)*
9. **Neuheimer, A.B.** 2016. How larval fish find their season at high and low latitudes. *Hawaii Pacific University, Honolulu, USA*.
10. **Neuheimer, A.B.** 2016. How larval fish find their season at high and low latitudes. *Department of Bioscience, Aarhus University, Aarhus, Denmark*.
11. **Neuheimer, A.B.** 2015. How big and how many: Developing physiologically relevant modeling tools to explain fish size and abundance in a changing climate. *Centre for Ecological and Evolutionary Synthesis, Oslo, Norway*.
12. **Neuheimer, A.B.** 2015. How big and how many: Developing physiologically relevant modeling tools to explain fish size and abundance in a changing climate. *National Oceanic and Atmospheric Administration, Pacific Islands Fisheries Science Center, Honolulu, USA*.
13. **Neuheimer, A.B.** 2013. Explaining variation in size-at-age and life history timing for fish in a changing climate. *Second JIMAR/PIFSC Symposium: Climate and Change, Honolulu, USA*.
14. **Neuheimer, A.B.** 2013. Modeling phenology: Explaining variation in spawning time across a species' range. *Conference of Biological Oceanography Graduate Students, University of Hawai'i at Mānoa, Honolulu, USA (Invited Plenary)*
15. **Neuheimer, A.B.** 2012. Linking physiology, ecology & oceanography: Modeling marine organisms in a changing climate. *School of Marine and Atmospheric Sciences, Stony Brook University, Stony Brook, USA*.
16. **Neuheimer, A.B.** 2012. Linking physiology to ecology for fish in a changing climate. *Center for Macroecology, Evolution & Climate, University of Copenhagen, Copenhagen, Denmark*.
17. **Neuheimer, A.B.** 2012. Linking physiology, ecology & oceanography: Modeling marine organisms in a changing climate. *Texas Marine Science Institute, University of Texas at Austin, Austin, USA*.
18. **Neuheimer, A.B.** 2012. Linking physiology, ecology & oceanography: Modeling marine organisms in a changing climate. *School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, Honolulu, USA*.
19. **Neuheimer, A.B.** 2011. Linking physiology to ecology for fish in a changing climate. *Scripps Institute of Oceanography, University of California at San Diego, San Diego, USA. (Invited)*
20. **Neuheimer, A.B.** 2011. Linking physiology to ecology for fish in a changing climate. *National Institute of Aquatic Resources, Technical University of Denmark, Charlottenlund, Denmark*.

21. **Neuheimer, A.B.** 2009. Disentangling variation in fish growth: Climate, food and fishing. *Commonwealth Scientific and Industrial Research Organisation Marine Laboratories, Hobart, Australia.*
22. **Neuheimer, A.B.,** W.C. Gentleman, P. Pepin, & E. Head. 2009. Regional variability in copepod phenology: Application of a new individual-based model (IBM) and implications for a changing climate. *National Institute of Aquatic Resources, Technical University of Denmark, Charlottenlund, Denmark.*
23. **Neuheimer, A.B.** 2009. Disentangling variation in fish growth: Temperature, food and fishing. *Department of Biological Sciences, Aarhus University, Aarhus, Denmark. (Invited)*
24. **Neuheimer, A.B.,** W.C. Gentleman, P. Pepin & E. Head. 2009. How to build and use individual-based models (IBMs) as hypothesis testing tools. *Bedford Institute of Oceanography, Dartmouth, Canada.*
25. **Neuheimer, A.B.** 2008. Disentangling variation in fish growth: Temperature, food and fishing. *Department of Oceanography, Dalhousie University, Halifax, Canada.*
26. **Neuheimer, A.B.,** C.T. Taggart, & J.M. Hanson. 2008. Disentangling variation in fish growth: Evidence for size-selection in southern Gulf of St. Lawrence cod (*Gadus morhua*). *Bedford Institute of Oceanography, Dartmouth, Canada.*
27. **Neuheimer, A.B.,** & C.T. Taggart. 2007. Condition estimates and length-at-age in Scotian Shelf haddock (*Melanogrammus aeglefinus*). *Fisheries Oceanography Committee Meeting, Bedford Institute of Oceanography, Dartmouth, Canada.*

## 8.2 Other presentations

28. **A.B. Neuheimer,** B.R. MacKenzie, & M.R. Payne. 2019. Using biologically relevant time-scales to identify timing controls and predict match-mismatch dynamics. *ICES Symposium – Challenging the Scientific Legacy of Johan Hjort: Time for a New Paradigm in Marine Research? Bergen, Norway.*
29. P. GrønkJær, **A.B. Neuheimer,** H. Knutsen, P.E. Jorde, & K.E.M. Jørgensen. 2019. Differences in daily growth rates between two ecotypes of coexisting juvenile Atlantic cod (*Gadus morhua*) increase during settling. *43<sup>rd</sup> Annual Larval Fish Conference, Palma de Mallorca, Spain.*
30. L.C. Stige, L.A. Rogers, **A.B. Neuheimer,** M.E. Hunsicker, N.A. Yaragina, G. Ottersen, L. Ciannelli, Ø. Langangen, & J.M. Durant. 2019. Density- and size-dependent mortality in fish early life stages. *43<sup>rd</sup> Annual Larval Fish Conference, Palma de Mallorca, Spain.*
31. S. Ferreira, J.M. Durant, **A.B. Neuheimer,** B. Bogstad, N. Yaragina, & L. C. Stige. 2019. Match-mismatch dynamics between *Calanus finmarchicus* and *Gadus morhua* in the Barents Sea and the Norwegian Sea. *43<sup>rd</sup> Annual Larval Fish Conference, Palma de Mallorca, Spain.*
32. **A.B. Neuheimer** & L. Ciannelli. 2019. Session Introduction: Ecological and evolutionary processes affecting fish ELHS distribution and survival. *43<sup>rd</sup> Annual Larval Fish Conference, Palma de Mallorca, Spain.*
33. C. Chang, E. Goetze, & **A.B. Neuheimer.** 2018. Biophysical drivers of ocean-wide connectivity in holoplanktonic zooplankton. *International Council for the Exploration of the Sea Annual Science Conference, Hamburg, Germany.*

34. **A.B. Neuheimer**, B.R. MacKenzie, & M.R. Payne. 2018. Spawning time adaptation allows fish to meet their food across an ocean basin. *International Council for the Exploration of the Sea Annual Science Conference, Hamburg, Germany.*
35. Wong-Ala, J., **A.B. Neuheimer**, J. Whitney, C.M. Comfort, B. Powell, M. Hixon, J. Gove, & M. A. McManus. 2018. Life history strategies shape larval reef fish recruitment off west Hawai'i. *2018 Ocean Sciences Meeting, Portland, USA.*
36. Comfort, C.M., K.A. Smith, J.C. Sevadjan, M.A. McManus, **A.B. Neuheimer**, & C.E. Ostrander. 2017. Observation of the mesopelagic micronekton boundary community's diel migration at Oahu, Hawaii based on backscatter data. *2017 Aquatic Sciences Meeting, Honolulu, USA.*
37. Leitner, A.B., **A.B. Neuheimer**, & J.C. Drazen. 2017. Unraveling the mystery of seamount enhanced primary production: A global analysis of satellite chlorophyll data around seamounts. *2017 Aquatic Sciences Meeting, Honolulu, USA.*
38. **Neuheimer, A.B.**, L. Ciannelli, G. Ottersen, & J. Durant. 2017. Session Tutorial: Bridging the eco-evolutionary gap: Plastic and adaptive responses to climate change. *2017 Aquatic Sciences Meeting, Honolulu, USA.*
39. Ciannelli, L., **A.B. Neuheimer**, L.C. Stige, & M. Hunsicker. 2016. Life history spatial constraints and species adaptability to climate change. *PICES 2016 Annual Meeting, San Diego, USA.*
40. Gove, J.M., McManus, M.A., **Neuheimer, A.B.**, Polovina, J.J., Drazen, J.C., Smith, C.R., Merrifield, M.A., Friedlander, A.M., Ehes, J.S., Young, C.W., Dillon, A.K., & Williams, G.J. 2016. Ocean Oases: Near-island biological hotspots in barren ocean basins. *13<sup>th</sup> International Coral Reef Symposium, Honolulu, USA.*
41. Chang C., **A.B. Neuheimer**, & E. Goetze. 2016. Can biophysical processes explain copepod connectivity and distribution across the Atlantic Ocean? *ICES/PICES 6<sup>th</sup> Zooplankton Production Symposium, Bergen, Norway.*
42. Wong-Ala, J., **A.B. Neuheimer**, M. Hixon, & B. Powell. 2016. The Influence of Life History Variability on Population Connectivity: Development and Application of a Trait-Based Biophysical Model of Individuals. *Ocean Sciences Meeting, New Orleans, USA.*
43. **A.B. Neuheimer**, M.R. Payne & B.R. MacKenzie. 2015. Controlling factors in fish early life history and how they combine to influence trophic links across the North Atlantic Ocean. *International Council for the Exploration of the Sea Annual Science Conference, Copenhagen, Denmark.*
44. **Neuheimer, A.B.**, J. Wong-Ala, B.S. Powell & M. Hixon. 2015. The influence of life history variability on population connectivity: Development and application of a trait-based biophysical model of individuals. *International Council for the Exploration of the Sea Annual Science Conference, Copenhagen, Denmark.*
45. Leitner, A.B., **A.B. Neuheimer**, & J.C. Drazen. 2015. Seamount induced primary productivity hotspots. *Deep Sea Biology Symposium, Aveiro, Portugal.*
46. **Neuheimer, A.B.**, M.R. Payne, & B.R. MacKenzie. 2015. The roles of plasticity and adaptation in spawning time of Atlantic cod (*Gadus morhua*): explaining phenology and making predictions in a changing climate. *3rd International Climate Change Symposium, Santos City, Brazil*
47. Kahng, S., D. Wagner & **A.B. Neuheimer**. 2014. Temperature regime at the lower depth limits for warm-water corals in Hawai'i. *The Second International Workshop on Mesophotic Coral Reef Ecosystems. Red-Sea, Israel.*

48. **Neuheimer, A.B.**, B.R. MacKenzie, & M.R. Payne. 2014. Explaining variation in life history timing across a species' range: Effects of climate on spawning time in Atlantic cod (*Gadus morhua*). *Arctic Change 2014, Ottawa, Canada*
49. **Neuheimer, A.B.**, M.R. Payne, & B.R. MacKenzie. 2014. Atlantic cod and bloom phenology: Exploring "critical period" adaptation across a species' range. *Johan Hjort Symposium on Recruitment Dynamics and Stock Variability, Bergen, Norway*
50. **Neuheimer, A.B.**, & MacKenzie, B.R. 2014. Explaining variation in life history timing across a species range: Effects of climate on spawning time in an exploited marine fish. *IMBER Ecosystem Studies of Sub-Arctic Seas, Copenhagen, Denmark*
51. **Neuheimer, A.B.**, M. Hartvig, J. Heuschele, S. Hylander, T. Kiørboe, K. H. Olsson, J. Sainmont, & K.H. Andersen. 2014. Patterns of adult and progeny size in the ocean: From rotifers to whales. *Ocean Sciences Meeting 2014, Honolulu, USA*
52. Drazen, J.C., C.A. Choy, **A.B. Neuheimer**, C.F. Phleger, & P.D. Nichols. 2014. Examining the Hawaiian Pacific food web from the epipelagic to the mesopelagic using fatty acid biomarkers. *Ocean Sciences Meeting 2014, Honolulu, USA*
53. **Neuheimer, A.B.** 2013. Explaining variation in life history timing: Fish spawning time in a changing climate. *School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, Honolulu, USA.*
54. **Neuheimer, A.B.** & MacKenzie, B.R. 2013. Explaining variation in life history timing across a species' range: Spawning time in an exploited marine fish. *International Council for the Exploration of the Sea Annual Science Conference, Reykjavik, Iceland.*
55. **Neuheimer, A.B.** & MacKenzie, B.R. 2013. Explaining variation in life history timing across a species' range: Effects of climate on spawning time in an exploited marine fish. *ASLO 2013 Aquatic Sciences Meeting, New Orleans, USA*
56. **Neuheimer, A.B.** & MacKenzie, B.R. 2012. Explaining variation in life history timing across a species range: Spawning time in an exploited marine fish. *National Institute of Aquatic Resources, Technical University of Denmark, Charlottenlund, Denmark*
57. **Neuheimer, A.B.** 2011. Linking physiology to ecology for fish in a changing climate. *Department of Biological Sciences, Aarhus University, Denmark.*
58. **Neuheimer, A.B.**, P. Grønkjær, & C.T. Taggart. 2011. Integrated temperature: A theory of relativity for aquatic ectotherms. *16 Danske Havforskermøde, Ebeltoft, Denmark.*
59. **Neuheimer, A.B.**, & P. Grønkjær. 2011. Declining length-at-age and age-at-maturity in North Sea cod (*Gadus morhua*): Temperature effects and implications for management in a changing climate. *16 Danske Havforskermøde, Ebeltoft, Denmark.*
60. **Neuheimer, A.B.**, R.E. Thresher & J.M. Lyle. 2010. Spatial variability in climate impacts on growth of a temperate marine fish (banded morwong, *Cheilodactylus spectabilis*). *The Fisheries Society of the British Isles Annual Symposium, Belfast, United Kingdom.*
61. **Neuheimer, A.B.** & P. Grønkjær. 2010. Declining length-at-age and age-at-maturity in North Sea cod (*Gadus morhua*): temperature effects and implications for management in a changing climate. *The Fisheries Society of the British Isles Annual Symposium, Belfast, United Kingdom.*

62. **Neuheimer, A.B.**, R.E. Thresher & J.M. Lyle. 2010. Climate impacts on growth of a temperate marine fish (Banded morwong *Cheilodactylus spectabilis*). *Australian Society for Fish Biology Annual Conference, Melbourne, Australia*.
63. **Neuheimer, A.B.**, & C.T. Taggart. 2009. Climate and fishing: Disentangling factors affecting growth in Scotian shelf haddock (*Melanogrammus aeglefinus*). *International Council for the Exploration of the Sea Annual Science Conference, Berlin, Germany*.
64. **Neuheimer, A.B.**, C.T. Taggart, & J.M. Hanson. 2009. Cod size-at-age: Disentangling effects of climate and fishing. *3<sup>rd</sup> Global Ocean Ecosystem Dynamics Open Science Meeting, Victoria, Canada*.
65. **Neuheimer, A.B.**, W.C. Gentleman, P. Pepin, & E. Head. 2009. Regional variability in copepod phenology: Application of a new individual-based model (IBM) and implications for a changing climate. *3<sup>rd</sup> Global Ocean Ecosystem Dynamics Open Science Meeting, Victoria, Canada*.
66. **Neuheimer, A.B.**, W.C. Gentleman, P. Pepin & E. Head. 2009. How to build and use individual-based models (IBMs) as hypothesis testing tools. *Atlantic Mathematical Biology Workshop, Halifax, Canada*.
67. **Neuheimer, A.B.**, W.C. Gentleman, P. Pepin & E. Head. 2008. How to build and use individual-based models (IBMs) as hypothesis testing tools. *International Council for the Exploration of the Sea Annual Science Conference, Halifax, Canada*.
68. **Neuheimer, A.B.**, C.T. Taggart, & J.M. Hanson. 2008. Disentangling variation in fish growth: Evidence for size-selection in southern Gulf of St. Lawrence cod (*Gadus morhua*). *International Council for the Exploration of the Sea Annual Science Conference, Halifax, Canada*.
69. **Neuheimer, A.B.** & W.C. Gentleman. 2008. Development and application of a new individual-based model (IBM) for copepods. *Advances in Marine Ecosystem Modeling Research Symposium, Plymouth, England*.
70. **Neuheimer, A.B.**, W.C. Gentleman, & C. Galloway. 2008. To eat her own: Cannibalism, climate and copepod nauplii. *American Society of Limnology and Oceanography Summer Meeting, St. John's, Canada*.
71. **Neuheimer, A.B.**, W.C. Gentleman, & C. Galloway. 2008. Modeling juvenile *Calanus finmarchicus* on Georges Bank: Where have all the nauplii gone? *International Council for the Exploration of the Sea Working Group on Physical-Biological Interactions, Sète, France*.
72. Gentleman, W. C., & **A. B. Neuheimer**. 2007. Modeling copepod development: Current limitations and a new realistic approach. *4<sup>th</sup> International Zooplankton Production Symposium, Hiroshima, Japan*.
73. **Neuheimer, A.B.**, C.T. Taggart, & K.T. Frank. 2006. Growth in fishes: a near-universal metric. *24<sup>th</sup> Lowell Wakefield Fisheries Symposium, "Resiliency of Gadid Stocks to Fishing and Climate Change", Anchorage, U.S.A.*
74. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growth in fishes: a near-universal metric. *Northwest Atlantic Fisheries Organization Symposium, Dartmouth, Canada*.
75. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growth in fishes – a near-universal metric. *Annual Workshop and General Meeting of the Atlantic Canada Coastal and Estuarine Science Society and Canadian Rivers Institute Symposium, Fredericton, Canada*.
76. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growing degree-day and growth in fishes. *2006 Conference of Dalhousie Oceanography Graduate Students, Halifax, Canada*.

77. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growing degree-day predicts fish growth. *Canadian Conference for Fisheries Research, Calgary, Canada.*
78. **Neuheimer, A.B.**, W. Gentleman & C.T. Taggart. 2005. Estimating food consumption in fish: What really matters? *Bedford Institute of Oceanography, Dartmouth, Canada.*
79. **Neuheimer, A.B.**, W. Gentleman & C.T. Taggart. 2005. Estimating food consumption in fish: What really matters? *2005 Conference of Dalhousie Oceanography Graduate Students, Halifax, Canada.*
80. **Neuheimer, A.B.**, W. Gentleman & C.T. Taggart. 2005. Estimating daily ration in fish: What really matters? *Canadian Conference for Fisheries Research, Windsor, Canada.*
81. **Neuheimer, A.B.** 2003. The development of an empirically-based prey consumption model for Atlantic cod of the southern Gulf of St. Lawrence. *2003 Conference of Dalhousie Oceanography Graduate Students, Halifax, Canada.*

## 9 PROFESSIONAL ACTIVITIES, SERVICE AND OUTREACH

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Department	2019	Voted Biological Oceanography Division Head, University of Hawai'i at Mānoa
	2018-	Co-organizer, Shut Up & Write Sessions, Aarhus University
	2017	Consolidated outcomes of Departmental Strategic Planning meeting, University of Hawai'i at Mānoa
	2015-	Founding member, Pacific Center for Ecological Sciences (PACES;
	2017	Lead: B. Powell), University of Hawai'i at Mānoa
	2015-	Reviewer, Global Environmental Science undergraduate presentation
	2016	& thesis, University of Hawai'i at Mānoa
	2015	Elected to Departmental Personnel Committee (DPC), University of Hawai'i at Mānoa
	2014	Led draft of amendment to Grad Student Handbook re: student presentation requirement, University of Hawai'i at Mānoa
	2013	Member of search committee (phytoplankton specialist), University of Hawai'i at Mānoa
	2013	Advised Physical Division students with the creation of their own conference (POGS), University of Hawai'i at Mānoa
	2013-	Member of Women in Oceanography, University of Hawai'i at Mānoa
	2017	Creator and faculty organizer for Biological Division student symposium, the annual Conference of Biological Oceanography Graduate Students (CBOGS, fulfills annual student presentation requirement), University of Hawai'i at Mānoa
2013-	Promotion of Departmental events via <a href="http://www.abneuheimer.org">www.abneuheimer.org</a> and twitter (@abneuheimer), various institutions	
	Informal mentoring of undergraduate and graduate students, various institutions	
Institution	2015-	Senior Fellow, Joint Institute for Marine and Atmospheric Research, University of Hawai'i at Mānoa
	2013-	Faculty supporter of the SOEST Maile Mentoring Bridge Program,
	2017	University of Hawai'i at Mānoa
	2013-	Informal mentoring of students in Geography, Zoology, Entomology,
	2017	Marine Biology, Natural Resources & Environmental Management, and Engineering, University of Hawai'i at Mānoa
National & International	2019	Session organizer, 43 <sup>rd</sup> Annual Larval Fish Biology Conference, Palma de Mallorca, Spain
	2018-	Co-organizer, Nordic Remote Sensing Conference 2019 (NoRSC '19),
	2019	Aarhus, Denmark

	2018	Reviewer for the National Oceanic and Atmospheric Association, USA
	2017	PhD examining committee invitation, University of Agder, Norway
	2019	Reviewer for the North Pacific Research Board, USA
	2017	Co-organizer, XIth International Larval Biology Symposium, Honolulu, USA
	2017	Session organizer, XIth International Larval Biology Symposium, Honolulu, USA
	2017	Session co-creator and co-convener, ASLO 2017 Aquatic Sciences Meeting, Honolulu, USA
	2017	Mentor, ASLO 2017 Aquatic Sciences Meeting, Honolulu, USA
	2017	Invited participant, Natural Mortality Workshop, University of Oslo, Norway
	2015-2017	Reviewer for the National Science Foundation, USA
	2016	Invited panellist, 2016 Ecological Dissertations in the Aquatic Sciences (Eco-DAS) Symposium, Honolulu, USA
	2015	Organizer & Participant, International Workshop on Fish Growth Models, USA
	2015	Invited participant, Natural Mortality Workshop, University of Oslo, Norway
National & International (cont.)	2014	Student presentation judge, 2014 Ocean Sciences Meeting, USA
	2013	Student presentation judge, Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting
	2012	Reviewer for EUR-OCEANS
	2011	Participant, MEMC/SUNFISH Joint Meeting, Denmark
	2008	Participant, Ecosystem Studies in Sub-Arctic Seas (ESSAS) Meeting, Canada
	2008	Participant, Workshop on Advancement in Modeling Physical-Biological Interactions in Fish Early-Life History (WKAMF) Collaborators Meeting, France
	2008	Participant, Gulf of Maine Zooplankton Workshop, Canada
	2008	Member, the International Council for Exploration of the Sea (ICES) Working Group on Physical-Biological Interactions
	2003-2004	President, Department of Oceanography Students Association, Dalhousie University, Canada
	2003	Teaching Volunteer, The Maritime Museum of the Atlantic, Canada
1999-2001	Co-President, Marine and Freshwater Biology Society, University of Guelph, Canada	
1999-2001	Board Member, College of Biological Sciences Student Government, University of Guelph, Canada	

National & International (cont.)	<p>Providing data analysis advice to researchers internationally, academia and industry.</p> <p>Member, Women in Oceanography, University of Hawai'i at Mānoa, USA</p> <p>Member, the American Society of Limnology and Oceanography</p> <p>Member, Earth Sciences Women's Network</p> <p>Reviewer: American Naturalist, Canadian Journal of Fisheries and Aquatic Sciences, Climate Research, Continental Shelf Research, Ecology, Ecosphere, Fisheries Oceanography, Fishery Bulletin, Global Change Biology, Great Lakes Research, Hydrobiologia, Journal of Experimental Marine Biology and Ecology, Journal of Fish Biology, Journal of Marine Systems, Journal of Northwest Atlantic Fishery Science, Journal of Plankton Research, Marine Ecology Progress Series, Marine Biology Research, Oecologia, PLoS ONE, Population Ecology, Progress in Oceanography, Reviews in Fish Biology and Fisheries, Thermal Biology</p>
Public Outreach	<p>2018 Public presentation, 2018 Forskningens Døgn/ Festival of Research, Aarhus University, Denmark</p> <p>2016 Informal mentoring of high school student (Punahou School)</p> <p>2013 Judge, 56<sup>th</sup> Hawai'i State Science and Engineering Fair</p> <p>2011-2016 In the press: Research featured on national and international news outlets</p> <p>2003 Teaching Volunteer, The Maritime Museum of the Atlantic, Canada</p>

## 10 OTHER SKILLS/INFORMATION

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- Nationality: Canadian
- Languages: English, Danish (Danskuddannelse 3 modul 5), introductory French, R, Matlab, Python
- NAUI SCUBA Open Water Dive Certification 1997
- Red Cross Certified: Adult and Pediatric First Aid/Cardiopulmonary Resuscitation/Automated External Defibrillator, 2015