

CURRICULUM VITAE

ANNA B. NEUHEIMER

Associate Professor,
Department of Biology, Aarhus University

abneuheimer@gmail.com
www.abneuheimer.org

1 EDUCATION

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>
	University Pedagogical Programme, 2021 <i>Aarhus University, Aarhus</i>
	Danish Language Training, A2B, Akademisk Samtale, 2021 <i>Aarhus University, Aarhus</i>
	Danish Language Training, A2B, Udtaler, 2021 <i>Aarhus University, Aarhus</i>
	Brightspace Online Course, 2021 <i>Aarhus University, Aarhus</i>
	Responsible Integrity Course, 2020 <i>Aarhus University, Aarhus</i>
Professional Development	Danish language training, Prøve i Dansk 3, 2020 <i>Aarhus, Denmark</i>
	The Foundation Course in PhD Supervision, 2020 <i>Aarhus University, Aarhus, Denmark</i>
	Media Training, 2018 <i>Aarhus University, Aarhus, Denmark</i>
	Applied Longitudinal Analysis Workshop, 2017 <i>American Statistical Association, Honolulu, USA</i>
	Training in Bayesian Modeling for Practicing Ecologists, 2016 <i>Colorado State University, Fort Collins, USA</i>
	Software Carpentry Course, 2015

University of Hawai'i at Mānoa, Honolulu, USA

*Hawaiian Studies, HWST 107 Hawai'i : Center of the Pacific, 2013
(Audited) University of Hawai'i at Mānoa, Honolulu, USA*

Stock Assessment Course, 2011

International Council for the Exploration of the Sea, Denmark

University Pedagogy Course, 2011

Aarhus University, Aarhus, Denmark

2 ACADEMIC APPOINTMENTS & RESEARCH EXPERIENCE

Associate Professor with tenure <i>Department of Biology, Aarhus University, Denmark.</i>	2021 - Present
Assistant Professor <i>Department of Biology, Aarhus University, Denmark.</i>	2020 - 2021
Associate Professor, 2-year AIAS-COFUND Fellowship <i>Aarhus Institute of Advanced Studies (AIAS), Aarhus University, Denmark</i>	2018 - 2020
Associate Professor with tenure <i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	2018-2019
Assistant Professor <i>School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA</i>	2013 - 2018
Postdoctoral Fellow <i>Center for Macroecology, Evolution and Climate, DTU Aqua & University of Copenhagen, Denmark. Advisor: B.R. MacKenzie</i>	2012
Postdoctoral Fellow <i>Department of Biology, Aarhus University, Denmark. Advisor: P. Grønkjær</i>	2009 - 2012
Endeavour Research Fellow <i>Commonwealth Scientific and Industrial Research Organisation, Australia. Advisor: R.E. Thresher</i>	2009 - 2010
Postdoctoral Fellow <i>Engineering Mathematics and Internetworking, Dalhousie University, Canada. Advisor: W. Gentleman</i>	2007 - 2009

Ph.D. Candidate	2002 – 2007
<i>Oceanography, Dalhousie University, Canada (Degree awarded 15 May 2008)</i>	
Biotechnology Research Policy Intern	2001 – 2002
<i>Canadian Biotechnology Secretariat, Canada</i>	
Research Assistant	2001
<i>Zoology, University of Guelph & Huntsman Marine Science Centre, Canada</i>	
Honours Research Project	2001
<i>Zoology, University of Guelph, Canada</i>	
Marine Biology and Oceanography Field Course	2000
<i>Huntsman Marine Science Center, Canada</i>	
Field Experience	
• 2023 Kattegat	
<i>3-day sampling zooplankton and ichthyoplankton; Vessel: RV AURORA</i>	
• 2021 Kattegat	
<i>2 x 3-day sampling zooplankton and ichthyoplankton; Vessel: RV AURORA</i>	
• 2014 Station ALOHA, North Pacific Subtropical Gyre	
<i>13-day cruise to sample food web; Vessel: RV Kilo Moana</i>	
• 2011 Aarhus Bay, Denmark:	
<i>1-day instruction assistant for Fisheries Oceanography course; Vessel: RV Tyra</i>	
• 2011 Aarhus Bay, Denmark:	
<i>1-day instruction assistant for Fish Biology course; Vessel: RV Tyra</i>	
• 2010 Aarhus Bay, Denmark:	
<i>1-day flatfish sampling; Vessel: RV Tyra</i>	
• 2003 Southern Gulf of St. Lawrence, Canada:	
<i>13-day cod prey-field survey (principal investigator); Vessel: RV Opilio</i>	

3 TEACHING EXPERIENCE

Course co-creator / Elected steering committee chair / Instructor	2020 - Present
<i>Department of Biology, Aarhus University, Denmark</i>	
Course: Global Change Biology	
Course creator / Instructor	2020 - Present
<i>Department of Biology, Aarhus University, Denmark</i>	
Course: Exploring Your Hypotheses With Statistics	
Course co-creator / Instructor	2020 - Present
<i>Department of Biology, Aarhus University, Denmark</i>	
Course: Productive Writing for Biologists	
Co-Instructor	2018 - Present

Department of Biology, Aarhus University, Denmark
Courses: Aquatic Biology, Marine Ecosystems, Experimental Aquatic Ecology,
Bio- Entrepreneurs, Biological Research in Theory and Practice.

- Instructor 2014 - 2017
School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA
Course: OCN 621 Biological Oceanography
- Course creator / Instructor 2013 - 2017
School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA
Course: OCN 682 Introduction to Programming and Statistics in R
- Organizer 2017
School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA
Course: OCN 780 Departmental Seminar
- Guest lecturer 2013-2017
School of Ocean and Earth Science and Technology, University of Hawai'i at Mānoa, USA
Courses: OCN 490 Communications of Research Results; OCN 627: Ecology of Pelagic Animals
- Course creator / instructor 2016
Department of Biology, Aarhus University, Denmark
Short-course: Programming and Statistics for the Aquatic Sciences
- Guest lecturer 2012
Danish Technical University, DTU Aqua, Denmark
Courses: Fisheries Oceanography
- Contributor 2011
Department of Biological Sciences, Aarhus University, Denmark
Course: Biological Research in Theory and Practice
- Co-Instructor 2011
Department of Biological Sciences, Aarhus University, Denmark
Course: Fisheries Oceanography
- Guest lecturer 2010 - 2011
Department of Biological Sciences, Aarhus University, Denmark
Course: Biological and Physical Oceanography
- Instructor 2009
Engineering Mathematics, Dalhousie University, Canada
Course: Ecosystem Modelling of Marine and Freshwater Environments
- Guest lecturer 2009
Oceanography, Dalhousie University, Canada
Course: Fisheries Oceanography
- Teaching assistant 2007

Oceanography, Dalhousie University, Canada
Course: Fisheries Oceanography

Guest lecturer

2005 – 2007

Oceanography, Dalhousie University, Canada
Course: Fisheries Oceanography

4 ADVISING

4.1 Primary advisor/Advisory committee chair

- 2024- L.O. Bering, *PhD Candidate, Department of Biology, Aarhus University*
2024- M. Jürgensen, *Undergraduate, Department of Biology, Aarhus University*
2023- N.R. Bach, *MSc Candidate, Department of Biology, Aarhus University*
2022 N. Nielsen, *Undergraduate, Department of Biology, Aarhus University*
2022-2024 S. Ferreira, *Postdoctoral Fellow, Department of Biology, Aarhus University*
2021-2022 C. Larsen, *MSc Candidate, Department of Biology, Aarhus University*
2021-2022 J. Bonde, *Undergraduate & MSc Candidate, Department of Biology, Aarhus University*
2020-2024 K.-E. Jørgensen, *PhD Candidate, Department of Biology, Aarhus University*
2020-2021 T. Hüttel, *Undergraduate, Department of Biology, Aarhus University*
- 2020-2022 N. Tang Christensen, *MSc Candidate, Department of Biology, Aarhus University*
2019-2020 A. Mørch, *MSc Candidate, Department of Biology, Aarhus University*
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*
2014-2017 J. Wong-Ala, *Undergraduate, Global Environmental Science, University of Hawai'i at Mānoa*
2014-2017 M. Ferguson, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
2014-2016 C. Chang, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*

4.2 Advisory committee member

- 2016-2019 S. Lal, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
2019-2020 J. Perelman, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
2018-2020 J. Bullington, *MSc Candidate, Oceanography, University of Hawai'i at Mānoa*
2018-2020 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*
- 2014-2019 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

- 2019 J. Perelman, *PhD Candidate, Oceanography, University of Hawai'i at Mānoa*
- 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 Biology, Aarhus University, Denmark (12 students)
- 2016 Department of Biology, 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)

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>
AAGE V. JENSEN NATURFOND	Integrated ecological, genomic and oceanographic analysis for planning marine habitat protection	11/2024-10/2027	7 493 236	Project coordinator: Neuheimer Co-PIs: Bekkevold, Grønkjær, Hansen, Larsen
Interreg Öresund-Kattegat-Skagerrak project	Climate adapted tools for a sustainable blue bioeconomy in the Kattegat-Skagerrak (BlueBioClimate)	10/2023-09/2026	5 679 419	Hemmer-Hansen (Project lead) Co-PIs: Grønkjær Neuheimer (Work Package Lead), et al.
Research Council Faroe Islands	Key processes governing pelagic productivity in sub-arctic North Atlantic fjord ecosystems (FjordProcess)	01/2022-12/2024	7 386 504	Homrum (PI) Co-PIs: Neuheimer, Jacobsen, Nordi, Erenbjerg, Grønkjær, Hátún, Albretsen, Hansen
Department of Biology, Aarhus University	Starting grant for tenure-track professorship	02/2020-01/2023	1 600 000	Neuheimer
Aarhus University Research Foundation, Aarhus University	Starting grant for tenure-track professorship	02/2020-12/2023	2 400 000	Neuheimer

5.2 Past funding

<i>Funding agency</i>	<i>Project title</i>	<i>Project period</i>	<i>Amount of award (DKK)</i>	<i>Principal investigators</i>
AU EduIT Strategiske midler	Portfolio Design: Making students more	2022-2023	91 439	Neuheimer (project leader)

	capable, confident and employable via the Data Skills Portfolio			
H2020 Marie Skłodowska-Curie Actions	Parasitism and climate change: A tipping point for blue mussel populations? (TPOINT)	06/2019-05/2021	207 312 EUR (1 547 700)	Selbach (co-PI), Mouritsen (co-PI), Neuheimer (project partner)
SCALGO	Gold sponsor: Nordic Remote Sensing Conference 2019	09/2019	15 000	Neuheimer (co-PI) Alexander (co-PI)
COWI	Silver sponsor: Nordic Remote Sensing Conference 2019	09/2019	7 500	Neuheimer (co-PI) Alexander (co-PI)
3D Analyse	Exhibition sponsor: Nordic Remote Sensing Conference 2019	09/2019	4 500	Neuheimer (co-PI) Alexander (co-PI)
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 7th 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)
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	06/2017	19 580 NOK (14 930)	Durant

Ecological and Evolutionary Synthesis, University of Oslo					
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 Biology, 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	
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	05/2014 - 06/2014	73 678	Neuheimer	

	Evolution & Climate – Investigating match- mismatch dynamics in larval fish				
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)	
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	ACCELERATE Mathematics of Information Technology and Complex Systems	2009	7 500 CAD (36 798)	Neuheimer	

(MITACS), Canada	(MITACS) Postdoctoral Internship			
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
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 & AWARDS

2021	Successful pre-proposal, BlueBio 2 nd Joint Transnational Call 2021, Co-Manage Project (Lead: Ciannelli)	Invitation
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 st 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

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 27 January 2022.

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. *Times cited: 1*
- 1. ^Ferreira, A.S.A. & **A.B. Neuheimer**. 2024. Estimating a thermal constant of spawning to explain spawning time of Pacific herring *Clupea pallasii* across space and time. *Marine Ecology Progress Series*. Advance View.
- 2. ^Ory, N.C., J.P. Gröger, J.P., A. Lehmann, F. Mittermayer, **A.B. Neuheimer**, & C. Clemmesen. 2024. Early arrival of spring-spawning Atlantic herring *Clupea harengus* at their spawning ground in the Kiel Fjord, western Baltic, relates to increasing winter seawater temperature. *Journal of Fish Biology*. 1-13.
- 3. ^Ferreira, A.S.A., **A.B. Neuheimer**, J.M. Durant. 2023. Impacts of the match-mismatch hypothesis across three trophic levels – a case study in the North Sea. *ICES Journal of Marine Science*. 80:308-316. *Times cited: 10*
- 4. *Christensen, J., P. Grønkjær, **A.B. Neuheimer**, & R. Kristiansen. 2023. Electroreception by small-spotted catshark (*Scyliorhinus canicula*) embryos in relation to predator detection and avoidance. *Marine and Freshwater Behaviour and Physiology*. 56 (5-6):125-135. *Selected for cover, Times cited: 1*
- 5. ^Bullington, J. A., A.R. Golder, G.F. Steward, M.A. McManus, **A.B. Neuheimer**, B.T. Glazer, O.D. Nigro, & C. E. Nelson. 2022. Refining real-time predictions of *Vibrio vulnificus* concentrations in a tropical urban estuary by incorporating

- dissolved organic matter dynamics. *Science of the Total Environment*. 829: 154075.
Times cited: 5
6. #Counsell, C.W.W., R.R. Coleman, S.S. Lal, B.W. Bowen, E.C. Franklin, **A.B. Neuheimer**, B.S. Powell, R.J. Toonen, M.J. Donahue, M.A. Hixon & M.A. McManus. In press. Opening the black box: interdisciplinary analysis of larval dispersal for a coral reef fish. *Marine Ecology Progress Series*. 684: 117-132. Times cited: 6
 7. ^Steele, R. & **A.B. Neuheimer**. In press. Assessing the ability of the growing degree-day metric to explain variation in size-at-age and age at moult of lobsters and crabs. *Canadian Journal of Fisheries and Aquatic Sciences*. Times cited: 7
 8. *Ciannelli, L. **A.B. Neuheimer**, L.C. Stige, K.T. Frank, J.M. Durant, M. Hunsicker, L.A. Rogers, S. Porter, G. Ottersen, & N.A. Yaragina. 2022. Ontogenetic spatial constraints of sub-arctic marine fish species. *Fish and Fisheries*. 23: 342-357. Times cited: 17
 9. ^C. Vollbrecht, J., Moehlenkamp, P., M. Gove, **A.B. Neuheimer**, & M.A. McManus. 2021. Long-term presence of the island mass effect at Rangiroa Atoll, French Polynesia. *Frontiers in Marine Science*. 7. Times cited: 6
 10. ^Black, J.A., **A.B. Neuheimer**, P.L. Horn, D.M. Tracey, & J.C. Drazen. 2021. Environmental, evolutionary, and ecological drivers of slow growth in deep-sea demersal teleosts. *Marine Ecology Progress Series*. 658:1-26. Selected by Editor as "Feature Article", Times cited: 6
 11. ^Ferreira, A.S.A., L.C. Stige, **A.B. Neuheimer**, B. Bogstad, N. Yaragina, I. Prokopchuk, & J. Durant. 2020. Match-mismatch dynamics in the Norwegian-Barents Seas system. *Marine Ecology Progress Series*. doi.org/10.3354/meps13276 Times cited: 29
 12. ^Jørgensen, K.-E.M., **A.B. Neuheimer**, H. Knutsen, P.-E. Jorde, & P. Grønkjær. 2020. Settlement processes induce differences in daily growth rates between two co-existing ecotypes of juvenile cod (*Gadus morhua*). *Marine Ecology Progress Series*. 650: 175-189. Times cited: 14
 13. ^Leitner, A.B., **A.B. Neuheimer** & J. C. Drazen. 2020. Evidence for long-term seamount-induced chlorophyll enhancements. *Scientific Reports* 10:12729. Times cited: 37
 14. ^Stige, L.C., 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. *Fish and Fisheries* 20:962-976. Times cited: 85
 15. ^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 Molokai, Hawai'i. *PeerJ* 6:e5688 Times cited: 11
 16. ***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: 30
In the Press: EurekaAlert!, Phys.org, ScienceDaily
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22. ^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: 7*
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- FICCOPrime**
- In the Press: The New York Times, IFLScience, The Conversation, EurekAlert!, Phys.org, Newswise, Health Medicine Network, AZO Cleantech, Environmental Research Web*
25. ^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: 7*
- In the Press: Hawaii Public Radio, Phys.org*
26. *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: 30*
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28. #**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: 44*

29. ***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: 29*
30. *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: 58*
31. ***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: 78*
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32. ***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: 329*
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33. ***Neuheimer, A.B.**, W.C. Gentleman, P. Pepin, & E.J.H. Head. 2010. Explaining regional variability in copepod recruitment: Implications for a changing climate. *Progress in Oceanography* 87: 94-105. *Times cited: 23*
34. ***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: 57*
35. ***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: 32*
36. ***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: 32*
37. *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: 98*
38. *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: 38*
39. ***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: 12*
40. **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*
41. ***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: 377*

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)

8.1 *Invited presentations*

1. Neuheimer, A.B. 2022. A biological theory of relativity: ideas and opportunities for applying thermal time models to marine ecology. *Centre for Ocean Life, DTU Aqua, Denmark*.
2. **Neuheimer, A.B.** 2020. Past, current and future efforts of a biological oceanography lab. *Departmental Seminar, Aarhus University, Aarhus, Denmark*.
3. **Neuheimer, A.B.** 2020. Developing mechanistic, predictive models to support food security and biodiversity initiatives in marine systems. *Invited presentation to Villum Fonden, Aarhus University, Aarhus, Denmark*.
4. **Neuheimer, A.B.** 2019. The pace of life: Time, temperature and a biological theory of relativity. *Center for Ecological and Evolutionary Synthesis, University of Oslo, Oslo, Norway*.
5. **Neuheimer, A.B.** 2019. The pace of life: Time, temperature and a biological theory of relativity. *Department of Biology, University of Hamburg, Hamburg, Germany*.

6. **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.*
7. **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.*
8. **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.*
9. **Neuheimer, A.B.** 2018. How life history and the environment shape settlement success of coral reef fishes. *Department of Biology, Aarhus University, Aarhus, Denmark.*
10. 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.*
11. **Neuheimer, A.B.** 2017. Factors controlling larval fish timing at high latitudes: Implications for production, distribution and adaptation over time. *31st Wakefield Symposium, Anchorage, USA.*
12. **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)*
13. **Neuheimer, A.B.** 2016. How larval fish find their season at high and low latitudes. *Hawaii Pacific University, Honolulu, USA.*
14. **Neuheimer, A.B.** 2016. How larval fish find their season at high and low latitudes. *Department of Biology, Aarhus University, Aarhus, Denmark.*
15. **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.*
16. **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.*
17. **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.*
18. **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)*
19. **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.*
20. **Neuheimer, A.B.** 2012. Linking physiology to ecology for fish in a changing climate. *Center for Macroecology, Evolution & Climate, University of Copenhagen, Copenhagen, Denmark.*

21. **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.*
22. **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.*
23. **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)*
24. **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.*
25. **Neuheimer, A.B.** 2009. Disentangling variation in fish growth: Climate, food and fishing. *Commonwealth Scientific and Industrial Research Organisation Marine Laboratories, Hobart, Australia.*
26. **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.*
27. **Neuheimer, A.B.** 2009. Disentangling variation in fish growth: Temperature, food and fishing. *Department of Biological Sciences, Aarhus University, Aarhus, Denmark. (Invited)*
28. **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.*
29. **Neuheimer, A.B.** 2008. Disentangling variation in fish growth: Temperature, food and fishing. *Department of Oceanography, Dalhousie University, Halifax, Canada.*
30. **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.*
31. **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

32. **A.B. Neuheimer.** 2024. Using a "biological theory of relativity" to model time-scales in individual-based models (applications and plans for zooplankton and larval fish). *WGIPEM International Meeting, A Coruña, Spain.*
33. **A.B. Neuheimer.** 2023. Developing a biological theory of relativity to explain seasonal timing in the Kattegat marine ecosystem. *Department of Biology Annual Science Conference 2023. Aarhus, Denmark.*
34. **A.B. Neuheimer** & A.S.A. Ferreira. 2022. Using models of thermal time to observe the unobserved and identify meaningful change. *PICES Small Pelagic Fish: New Frontiers in Science and Sustainable Management. Lisbon, Portugal.*
35. W.C. Gentleman, **A.B. Neuheimer**, F. Maps, C.J. Johnson, and C.E. Brennan. 2019. Quantifying copepod characteristics that emerge from interactions of individual

- and environmental variability. *International Society for Ecological Modelling Global Conference, Salzburg, Austria.*
36. **A.B. Neuheimer**, J.A.T.K. Wong-Ala, C. Chang, & E. Goetze. 2019. Trait-based explanations of genetic connectivity patterns for zooplankton and fish. *The 4th Trait Workshop, Buckinghamshire, England.*
 37. **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.*
 38. 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. *43rd Annual Larval Fish Conference, Palma de Mallorca, Spain.*
 39. 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. *43rd Annual Larval Fish Conference, Palma de Mallorca, Spain.*
 40. 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. *43rd Annual Larval Fish Conference, Palma de Mallorca, Spain.*
 41. **A.B. Neuheimer** & L. Ciannelli. 2019. Session Introduction: Ecological and evolutionary processes affecting fish ELHS distribution and survival. *43rd Annual Larval Fish Conference, Palma de Mallorca, Spain.*
 42. 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.*
 43. **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.*
 44. 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.*
 45. 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.*
 46. 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.*
 47. **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.*
 48. 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.*

49. Gove, J.M., McManus, M.A., **Neuheimer, A.B.**, Polovina, J.J., Drazen, J.C., Smith, C.R., Merrifield, M.A., Friedlander, A.M., Ehses, J.S., Young, C.W., Dillon, A.K., & Williams, G.J. 2016. Ocean Oases: Near-island biological hotspots in barren ocean basins. *13th International Coral Reef Symposium, Honolulu, USA.*
50. Chang C., **A.B. Neuheimer**, & E. Goetze. 2016. Can biophysical processes explain copepod connectivity and distribution across the Atlantic Ocean? *ICES/PICES 6th Zooplankton Production Symposium, Bergen, Norway.*
51. 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.*
52. **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.*
53. **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.*
54. Leitner, A.B., **A.B. Neuheimer**, & J.C. Drazen. 2015. Seamount induced primary productivity hotspots. *Deep Sea Biology Symposium, Aveiro, Portugal.*
55. **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*
56. 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.*
57. **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*
58. **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*
59. **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*
60. **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*
61. 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*
62. **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.*

63. **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.*
64. **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*
65. **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*
66. **Neuheimer, A.B.** 2011. Linking physiology to ecology for fish in a changing climate. *Department of Biological Sciences, Aarhus University, Denmark.*
67. **Neuheimer, A.B.**, P. Grønkjær, & C.T. Taggart. 2011. Integrated temperature: A theory of relativity for aquatic ectotherms. *16 Danske Havforskermøde, Ebeltoft, Denmark.*
68. **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.*
69. **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.*
70. **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.*
71. **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.*
72. **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.*
73. **Neuheimer, A.B.**, C.T. Taggart, & J.M. Hanson. 2009. Cod size-at-age: Disentangling effects of climate and fishing. *3rd Global Ocean Ecosystem Dynamics Open Science Meeting, Victoria, Canada.*
74. **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. *3rd Global Ocean Ecosystem Dynamics Open Science Meeting, Victoria, Canada.*
75. **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.*
76. **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.*

77. **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.*
78. **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.*
79. **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.*
80. **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.*
81. Gentleman, W. C., & **A. B. Neuheimer**. 2007. Modeling copepod development: Current limitations and a new realistic approach. *4th International Zooplankton Production Symposium, Hiroshima, Japan.*
82. **Neuheimer, A.B.**, C.T. Taggart, & K.T. Frank. 2006. Growth in fishes: a near-universal metric. *24th Lowell Wakefield Fisheries Symposium, "Resiliency of Gadid Stocks to Fishing and Climate Change", Anchorage, U.S.A.*
83. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growth in fishes: a near-universal metric. *Northwest Atlantic Fisheries Organization Symposium, Dartmouth, Canada.*
84. **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.*
85. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growing degree-day and growth in fishes. *2006 Conference of Dalhousie Oceanography Graduate Students, Halifax, Canada.*
86. **Neuheimer, A.B.**, & C.T. Taggart. 2006. Growing degree-day predicts fish growth. *Canadian Conference for Fisheries Research, Calgary, Canada.*
87. **Neuheimer, A.B.**, W. Gentleman & C.T. Taggart. 2005. Estimating food consumption in fish: What really matters? *Bedford Institute of Oceanography, Dartmouth, Canada.*
88. **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.*
89. **Neuheimer, A.B.**, W. Gentleman & C.T. Taggart. 2005. Estimating daily ration in fish: What really matters? *Canadian Conference for Fisheries Research, Windsor, Canada.*
90. **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.*

Department	2021	Head, Data Skills Taskforce, Aarhus University
	2020	Presenter, International evaluation, Aarhus University
	2020-	Steering committee member, EDU-IT Initiative, Aarhus University
	2020-	Elected steering committee chair, Global Change Biology course, Aarhus University
	2019	Elected Biological Oceanography Division Head, University of Hawai'i at Mānoa
	2018-2019	Co-organizer, Shut Up & Write Sessions, Aarhus University
	2017	Consolidated outcomes of Departmental Strategic Planning meeting, University of Hawai'i at Mānoa
	2015-2017	Founding member, Pacific Center for Ecological Sciences (PACES; Lead: B. Powell), University of Hawai'i at Mānoa
	2015-2016	Reviewer, Global Environmental Science undergraduate presentation & 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
	2013-2017	Member of Women in Oceanography, University of Hawai'i at Mānoa
	2013-2017	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 www.abneuheimer.org and twitter (@abneuheimer), various institutions
	Informal mentoring of undergraduate and graduate students, various institutions	
Institution	2022	Invited, AIAS seminar on life at AU
	2020-	Partner, AU-SPACE, Aarhus University
	2020-	Member, Tenure-track focus group, Strategy process at the Faculty of Natural Sciences, Aarhus University

National & International

- 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, University of Hawai'i at Mānoa
- 2017
- 2013- Informal mentoring of students in Geography, Zoology, Entomology, Marine Biology, Natural Resources & Environmental Management, and Engineering, University of Hawai'i at Mānoa
- 2017

- 2024- Chair-invited member, ICES Working Group on Ecosystem-Based Fisheries Management of the Western Baltic Sea
- 2024- Chair-invited member, ICES Working Group on Integrative, Physical-biological and Ecosystem Modelling
- 2023 Developed and Instructed, FjordProcess Individual-based Modelling Workshop, Tórshavn, Faroe Islands.
- 2023 Invited participant, *Marine Research in the North Atlantic Ocean - Annual Meeting, Nuuk, Greenland.*
- 2023- Member, West Baltic Cod Forum
- 2021- Member, Ekspertgruppen, Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), Aarhus University
- 2020- Member - MarGen - expertise in marine and aquatic ecology and genomics for sustainable management of fish and shellfish in Øresund-Kattegat-Skagerrak.
- 2020 Participant, International Blue Mussel Workshop, Aarhus, Denmark
- 2019 Session organizer, 43rd Annual Larval Fish Biology Conference, Palma de Mallorca, Spain
- 2019 Student presentation judge, 43rd Annual Larval Fish Biology Conference, Palma de Mallorca, Spain
- 2018- Co-organizer, Nordic Remote Sensing Conference 2019 (NoRSC '19), Aarhus, Denmark
- 2019
- 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

National &
International
(cont.)

- 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
- 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
- Providing data analysis advice to researchers internationally, academia and industry.
- Member, Women in Oceanography, University of Hawai'i at Mānoa, USA
- Member, the American Society of Limnology and Oceanography
- Member, Earth Sciences Women's Network
- 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

Public Outreach	2018	Public presentation, 2018 Forskningensdøgn/ Festival of Research, Aarhus University, Denmark
	2016	Informal mentoring of high school student (Punahou School)
	2013	Judge, 56 th Hawai'i State Science and Engineering Fair
	2011-2016	In the press: Research featured on national and international news outlets
	2003	Teaching Volunteer, The Maritime Museum of the Atlantic, Canada

10 OTHER SKILLS/INFORMATION

- Nationality: Canadian
- Languages:
 - English*: native speaker
 - Danish*: Prøve i Dansk 3 (2020), Studieprøven (2022)
 - French*: introductory
 - Computing*: R, Matlab, Python
- Sea safety training course (STCW A-VI/1-1) - 2021
- NAUI SCUBA Open Water Dive Certification 1997
- First Aid (Dansk Førstehjælpsråd), 2024