

Jennifer M. Questel

US Citizen

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EDUCATION

PhD, Oceanography (2016)
College of Fisheries and Ocean Sciences
University of Alaska Fairbanks, Fairbanks, AK

BS, Zoology (2008)
Department of Biology
State University of New York at Oswego, Oswego, NY

PROFESSIONAL DEVELOPMENT

Researcher, Temporary (March 2018-current)
Institute of Marine Science, University of Alaska Fairbanks

Post-doctoral Research Associate (September 2016 - February 2018)
Department of Marine Sciences, University of Connecticut

Graduate Research (May 2008 – August 2016) and Teaching Assistant (Summer 2013; Fall 2015)
College of Fisheries and Ocean Sciences, University of Alaska Fairbanks

PUBLICATIONS

PEER-REVIEWED ARTICLES (Google Scholar: n=20, times cited=208, h-index=6)

Bucklin, A., Yeh, H.D., **Questel, J.M.**, Richardson, D., Reece, B., Copley, N., Wiebe, P.
(accepted) Time-series metabarcoding analysis of zooplankton diversity of the NW
Atlantic continental shelf. ICES Journal of Marine Science.

Yeh, H.D., **Questel, J.M.**, Maas, K.R., Bucklin, A. (in review) Metabarcoding analysis of prey
and microbiota composition of the copepod *Calanus finmarchicus* in the North Atlantic
Ocean. Deep-Sea Research Part II.

Bucklin, A., DiVito, K., Smolina, I., Choquet, M., **Questel, J.M.**, Hoarau, G., O'Neill, R.J. (2018)
Population Genomics of Marine Zooplankton. Chapter 19 in: Population Genomics.
Eds. Rajora, O.M. and Oleksiak, M., Springer, Cham.

Blanchard, A.L., Day, R.H., Gall, A.E., Aerts, L.A.M., Delarue, J., Dobbins, E.L., Hopcroft, R.R.,
Questel, J.M., Weingartner, T.J., Wisdom, S.S. (2017) Ecosystem variability in the
offshore Northeastern Chukchi Sea. Progress in Oceanography 159:130-153.

McFarlin, K.M., **Questel, J.M.**, Hopcroft, R.R., Leigh, M.B. (2017) Bacterial community
structure and functional potential in the northeastern Chukchi Sea. Continental Shelf
Research 136:20-28.

Questel, J.M., Blanco-Bercial, L., Hopcroft, R.R., Bucklin, A. (2016) Phylogeography and
connectivity of the *Pseudocalanus* (Copepoda: Calanoida) species complex in the eastern
North Pacific and Pacific Arctic Region. Journal of Plankton Research 38:610-623.

Ershova, E.A., **Questel, J.M.**, Kosobokova, K., Hopcroft, R.R. (2016) Population structure and production of four sibling species of *Pseudocalanus* spp. in the Chukchi Sea. *Journal of Plankton Research* 39:48-64.

Questel, J.M., Clarke, C., Hopcroft, R.R. (2013) Seasonal and interannual variation in the planktonic communities of the northeastern Chukchi Sea during the summer and early fall. *Continental Shelf Research* 67:23-41.

Mathis, J.T., **Questel, J.M.** (2013) Assessing seasonal changes in carbonate parameters across small spatial gradients in the Northeastern Chukchi Sea. *Continental Shelf Research* 67:42-51.

Day, R.H., Weingartner, T.J., Hopcroft, R.R., Aerts, L.A.M., Blanchard, A.L., Gall, A.E., Gallaway, B.J., Hannay, D.E., Holladay, B.A., Mathis, J.T., Norcross, B.L., **Questel, J.M.**, Wisdom, S.S. (2013) The offshore northeastern Chukchi Sea, Alaska: A complex high-latitude ecosystem. *Continental Shelf Research* 67:147-165.

Questel, J.M., Walsh, M.G., Smith Jr., R.J., Welsh, A.B. (2011) New data on mitochondrial diversity and origin of *Hemimysis anomala* in the Laurentian Great Lakes. *Journal of Great Lakes Research* 38:14-18.

Walsh, M.G., Lantry, B.F., Boscarino, B., Bowen, K., Gerlofsma, J., Schaner, T., Back, R., **Questel, J.M.**, Smythe, A.G., Cap, R., Goehle, M., Young, B., Chalupnicki, M., Johnson, J.H., Mckenna, J.E. (2010) Early Observations on an Emerging Great Lakes Invader *Hemimysis anomala* in Lake Ontario. *Journal of Great Lakes Research* 36:499-504.

TECHNICAL REPORTS (<https://www.chukchiscience.com/science/plankton>)

Hopcroft, R.R., **Questel, J.M.**, Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the northeastern Chukchi Sea: Report for Survey year 2014.

Hopcroft, R.R., **Questel, J.M.**, Lamb, J., Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the northeastern Chukchi Sea: Report for Survey year 2013.

Hopcroft, R.R., Hariharan, P., **Questel, J.M.**, Lamb, J., Lessard, E., Foy, M., Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the northeastern Chukchi Sea: Report for Survey year 2012.

Hopcroft, R.R., **Questel, J.M.**, Hariharan, P., Stark, T.C., Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the northeastern Chukchi Sea: Report for Survey year 2011.

Hopcroft, R.R., **Questel, J.M.**, Hariharan, P., Stark, T.C., Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the northeastern Chukchi Sea: Report for Survey year 2010.

Hopcroft, R.R., Stark, T.C., **Questel, J.M.**, Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the central Beaufort Sea: Report for Sivulliq Survey year 2010.

Hopcroft, R.R., **Questel, J.M.**, Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the Klondike and Burger prospect regions of the Chukchi Sea: Report for Survey year 2009.

Hopcroft, R.R., **Questel, J.M.**, Clarke-Hopcroft, C.: Oceanographic assessment of the planktonic communities in the Klondike and Burger prospect regions of the Chukchi Sea: Report for Survey year 2008.

CONFERENCE PRESENTATIONS (PAST 5 YEARS)

- Questel, J.M.,** Hopcroft, R.R., Bucklin, A. (2018) Pan-Arctic biodiversity and phylogeography of zooplankton: molecular analysis of impacts of water column structure and currents. AGU Ocean Sciences Meeting. Portland, OR, USA.
- Questel, J.M.,** Aarbakke, O.N.S., Blanco-Bercial, L., Hopcroft, R.R., Norrbin, F., Halsband, C., Ershova, E.A., Kosobokova, K.N., Weydmann, Bucklin, A. (2017) Pan-Arctic phylogeography and connectivity of species of *Pseudocalanus* (Copepoda, Calanoida). International Conference on Copepoda. Los Angeles, CA, USA.
- Questel, J.M.,** Hopcroft, R.R., Bucklin, A. (2017) Metagenetic analysis of zooplankton biodiversity of the Pacific-Arctic Chukchi Borderlands Region. ASLO Aquatic Sciences Meeting. Honolulu, HI, USA.
- Questel, J.M.,** Aarbakke, O.N.S., Blanco-Bercial, L., Hopcroft, R.R., Norrbin, F., Halsband, C., Weydmann, A., Bucklin, A. (2017) Pan-Arctic phylogeography, connectivity, and demographic history of species of *Pseudocalanus* (Copepoda, Calanoida). Arctic Frontiers, Tromsø, Norway.
- Questel, J.M.,** Blanco-Bercial, L., Hopcroft, R.R., Bucklin, A. (2015) Phylogeography and connectivity of four sibling species of *Pseudocalanus* (Copepoda: Calanoida) in the North Pacific and Arctic Ocean. ASLO Aquatic Sciences Meeting. Granada, Spain.
- Questel, J.M.,** Blanco-Bercial, L., Hopcroft, R.R., Bucklin, A. (2015) Phylogeography and connectivity of four sibling species of *Pseudocalanus* (Copepoda: Calanoida) in the North Pacific and Arctic Ocean. Alaska Marine Science Symposium. Anchorage, AK, USA.
- Questel, J.M.,** Blanco-Bercial, L., Hopcroft, R.R., Bucklin, A. (2014) Distribution of *Pseudocalanus* spp. in the Pacific-Arctic as revealed by molecular markers." AGU Ocean Sciences Meeting. Honolulu, HI, USA.
- Questel, J.M.,** Blanco-Bercial, L., Hopcroft, R.R., Bucklin, A. (2014) Distribution of *Pseudocalanus* spp. in the Pacific-Arctic as revealed by molecular markers. Alaska Marine Science Symposium. Anchorage, AK, USA.

FUNDING AND AWARDS

Northern Gulf of Alaska Research Award (2015)

Martin V. Torok Memorial Award (2008)

Dough Halliday Summer Research Fellowship (2007)

Early Career Scientist Travel Awards, \$500 & \$600 (2017)

TEACHING AND MENTORING

LECTURER

College of Fisheries and Ocean Sciences, University of Alaska Fairbanks
The Oceans (Spring 2019)

TEACHING ASSISTANT

College of Fisheries and Ocean Sciences, University of Alaska Fairbanks
The Oceans (Fall 2016)
Marine Biology and Ecology Field Course (Summer 2013)

MENTOR

Provided mentoring and project design, zooplankton identification, molecular laboratory techniques, data analysis, and communication of research projects

Mollie Passacantando (Sophomore, Rutgers University): Mystic Aquarium/UConn NSF-Research for Undergraduate Experience program

Heidi Yeh (MSc; current): University of Connecticut, Department of Marine Science

LABORATORY

Trained and oversaw research for technicians at UConn in laboratory management, molecular techniques, and data analysis.

Hayley DeHart (MSc. College of Charleston)

FIELD EXPERIENCE

NSF LTER Gulf of Alaska Program (2018)

NOAA Office of Exploration and Research: Chukchi Borderlands (2016)

Chukchi Sea Environmental Studies Program (2008-2014)

Gulf of Alaska Seward Line Program (2008-2014)

NOAA Gulf of Alaska Ocean Acidification Program (2015)

AKMAP Program (2011)

Beaufort Sea Sivulliq Oceanographic Assessment (2010)

PROFESSIONAL SERVICE AND ORGANIZATIONS

PEER REVIEWER

Journal Article Peer Reviewer (2016-present)

Continental Shelf Research, Deep Sea Research II, Marine Biodiversity, Molecular Ecology, PLOS One, and Bulletin of the Southern California Academy of Sciences.

Grant Proposal Peer Reviews (2017)

Maryland SeaGrant

WORKING GROUPS

ICES Working Group on Integrated Morphological and Molecular Taxonomy

SCIENTIFIC MEMBERSHIPS

World Association of Copepodologists, The Oceanographic Society, American Society of Limnology and Oceanography, Society for Women in Marine Science, Association of Polar Early Career Scientists and Association for Women in Science.