

# REBEKAH A. OOMEN

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## RESEARCH INTERESTS

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Organismal and population responses to environmental change; genomic basis of plasticity and adaptation; reaction norm evolution; divergence with gene flow; sexual selection; structural genomic variation; marine ecology; bioinformatics; climate change; conservation; sociality; bioacoustics; artificial intelligence

## EMPLOYMENT

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- 2023- Assistant Professor, Department of Marine Biology & Coastal Science, University of New Brunswick Saint John
- 2023- Researcher, Department of Marine Sciences, University of Gothenburg, Tjärnö Marine Lab
- 2023- Researcher II, Centre for Ecological & Evolutionary Synthesis and the Natural History Museum, University of Oslo
- 2022-2023 NSERC Postdoctoral Research Fellow, Centre for Coastal Research, University of Agder
- 2022-2023 Researcher & Adviser, Centre for Ecological & Evolutionary Synthesis and the Natural History Museum, University of Oslo
- 2021- Affiliate Researcher, Centre for Artificial Intelligence Research, University of Agder
- 2020- Researcher II, Centre for Coastal Research, University of Agder
- 2019-2022 James S. McDonnell Foundation Postdoctoral Research Fellow in Understanding Dynamic and Multi-scale Systems, Centre for Ecological & Evolutionary Synthesis, University of Oslo
- 2019 Researcher, Norwegian Sequencing Centre, University of Oslo

## EDUCATION

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- 2013-2019 PhD, Ecology & Evolution, Dalhousie University (Supervisor: Dr. Jeff Hutchings)
- 2011-2012 MSc, Ecology & Evolution, Dalhousie University (Supervisor: Dr. Jeff Hutchings)
- 2006-2010 BScFS (Honours), Forensic Science, Trent University (Supervisor: Dr. Chris Kyle)

## SELECT AWARDS & HONOURS

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- 2023 Early Career Award, Canadian Society for Ecology & Evolution (national; 1,700 CAD)
- 2023 Crafoord Grant, The Royal Swedish Academy of Sciences & Crafoord Fund (300,000 SEK)
- 2022 Communication of Science Prize, Institute of Biosciences, University of Oslo (10,000 NOK)
- 2023-2026 Swedish Research Council (VR) Starting Grant (international; 4 million SEK)
- 2021-2023 BAR International Artist-in-Residence, Pikene på Broen, Kirkenes, Norway
- 2020 Top Dissertation in the Department of Biology in 2019, Dalhousie University
- 2019-2022 James S. McDonnell Foundation Postdoctoral Fellowship (international; 200,000 USD)
- 2018 Doctoral Research Award, Canadian Society for Ecology & Evolution (national; 500 CAD)

## PUBLICATIONS

PEER REVIEWED (N<sub>published</sub> = 23, h-index = 13, citations > 700 [[Google Scholar](#)]) † indicates mentee co-author

*Preprints / in review / in revision*

27. Norderhaug, KJ, H Knutsen, K Filbee-Dexter, M Sodeland, PE Jorde, T Wernberg, **RA Oomen**, & E Moland [in review]. The Red List blind spot: IUCN criteria do not account for important intraspecific diversity.
26. Böhne, A\*, R Fernández\*, J Leonard\*, AM Mc Cartney\*, S McTaggart\*, J Melo-Ferreira\*, R Monteiro\*, **RA Oomen**\*, OV Pettersson\*, TH Struck\* [2023; in review] Contextualising samples: Supporting reference genomes for European biodiversity through sample and sample data collection. *PCI Genomics*. Preprint: <https://doi.org/10.1101/2023.06.28.546652> \*contributed equally
25. **Oomen, RA**, H Knutsen, EM Olsen, S Jentoft, NC Stenseth, & JA Hutchings [2022; revision requested]. Comparison of *de novo* and reference genome-based transcriptome assembly pipelines for differential expression analysis of RNA sequencing data. *BMC Research Notes* [ID: RESN-S-18-01771]. Preprint: <https://doi.org/10.1101/2022.08.20.504634>
24. **Oomen, RA**, E Juliussen†, EM Olsen, H Knutsen, S Jentoft, & JA Hutchings [2021; second revision requested]. Cryptic microgeographic variation in responses of larval Atlantic cod to warming. *Evolutionary Applications* [ID: EVA-2021-004-OA]. Preprint: <https://doi.org/10.1101/2021.02.03.429645>

*Published / accepted*

23. Kao, AB, AK Hund, FP Santos, J-G Young, D Bhat, J Garland, **RA Oomen**, & HF McCreery. 2023. Opposing responses to scarcity emerge from functionally unique sociality drivers. *The American Naturalist*, 202:302-321. doi:[10.1086/725426](https://doi.org/10.1086/725426)
22. Theissinger K, G Formenti, C Fernandes, ..., **RA Oomen**\*, ..., J Höglund (25 authors + European Reference Genome Atlas [ERGA] Consortium). 2023. How genomics can help biodiversity conservation. *Trends in Genetics*, 39:545-559. doi:[10.1016/j.tig.2023.01.005](https://doi.org/10.1016/j.tig.2023.01.005) \*middle 21 authors contributed equally
21. **Oomen, RA**, H Knutsen, EM Olsen, S Jentoft, NC Stenseth, & JA Hutchings. 2022. Warming accelerates the onset of the molecular stress response and increases mortality of larval Atlantic cod. *Integrative and Comparative Biology*, 62:1784-1801. doi:[10.1093/icb/icac145](https://doi.org/10.1093/icb/icac145)
20. **Oomen, RA** & JA Hutchings. 2022. Genomic reaction norms inform predictions of plastic and adaptive responses to climate change. *Journal of Animal Ecology*, 91:1073-1087. doi:[10.1111/1365-2656.13707](https://doi.org/10.1111/1365-2656.13707) *Invited Faculty Opinions Recommended Sidnie Manton Award Finalist*
19. Rasmussen JH†, M Moyano, L Fuiman, & **RA Oomen**. 2022. FishSizer: Software solution for efficiently measuring larval fish size. *Ecology & Evolution*, 12:e8672. doi:[10.1002/ece3.8672](https://doi.org/10.1002/ece3.8672)
18. Goodwin M\*, KT Halvorsen\*, L Jiao\*, KM Knausgård\*, AH Martin\*, M Moyano\*, **RA Oomen**\*†, JH Rasmussen\*†, TK Sørдалen\*, & SH Thorbjørnsen\*. 2022. Unlocking the potential of deep learning for marine ecology: overview, applications, and outlook. *ICES Journal of Marine Science*, fsab255. doi:[10.1093/icesjms/fsab255](https://doi.org/10.1093/icesjms/fsab255) \*contributed equally †corresponding
17. Formenti, G, K Theissinger, C Fernandes, ..., **RA Oomen**\*, ..., M Bálint (25 authors + European Reference Genome Atlas [ERGA] Consortium). 2022. The era of reference genomes in conservation genomics. *Trends in Ecology & Evolution*, 37:197-202. doi:[10.1016/j.tree.2021.11.008](https://doi.org/10.1016/j.tree.2021.11.008) \*middle 21 authors contributed equally
16. Wolf, JF†, L MacKay\*, SE Haworth\*, ML Cossette\*, MN Dedato\*, KB Young\*, CI Elliott\*, & **RA Oomen**. 2021. Preprinting is positively associated with early career researcher status in ecology and evolution. *Ecology & Evolution*, 11:13624-13632. doi:[10.1002/ece3.8106](https://doi.org/10.1002/ece3.8106) \*contributed equally

15. Raatikainen, KJ, J Purhonen, T Pohjanmies, M Peura, ..., **RA Oomen\***, ..., J Ziemacki\* (31 authors). 2021. Pathways towards a sustainable future envisioned by early-career conservation researchers. *Conservation Science and Practice*, 3:e493. doi:[10.1111/csp2.493](https://doi.org/10.1111/csp2.493) \*last 24 authors contributed equally
14. Deininger, A, AH Martin, JC Pardo, PR Berg\*, J Bhardwaj\*, D Catarino\*, A Fernandez-Chacon\*, K Martinez-Swatson\*, K Ono\*, **RA Oomen\***, M Sodeland\*, TK Sørtdalen\*, A-E Synnes\*, SH Thorbjørnsen\*, & J Thormar\*. 2021. Coastal research seen through an early career lens – a perspective on barriers to interdisciplinarity in Norway. *Frontiers in Marine Science*, 8:634999. doi:[10.3389/fmars.2021.634999](https://doi.org/10.3389/fmars.2021.634999) \*contributed equally
13. **Oomen, RA** & JA Hutchings. “Evolution of Reaction Norms.” In *Oxford Bibliographies in Evolutionary Biology*. Ed. D Futuyma. New York: Oxford University Press, October 28, 2020. doi:[10.1093/OBO/9780199941728-0130](https://doi.org/10.1093/OBO/9780199941728-0130) *Commission*
12. **Oomen, RA**, A Kuparinen, & JA Hutchings. 2020. Consequences of single-locus and tightly linked genomic architectures for evolutionary responses to environmental change. *Journal of Heredity*, 111:319-332. doi:[10.1093/jhered/esaa020](https://doi.org/10.1093/jhered/esaa020) *Editor's Choice* & [High-impact Article \(Most Read\)](#)
11. Mérot, C\*, **RA Oomen\***, A Tigano\*, & M Wellenreuther\*. 2020. A roadmap for understanding the evolutionary significance of structural genomic variation. *Trends in Ecology & Evolution*, 35:561-572. doi:[10.1016/j.tree.2020.03.002](https://doi.org/10.1016/j.tree.2020.03.002) \*contributed equally *Featured Article*
10. Roney, NE, **RA Oomen**, H Knutsen, EM Olsen, & JA Hutchings. 2018. Fine-scale population differences in Atlantic cod reproductive success: a potential mechanism for ecological speciation in a marine fish. *Ecology & Evolution*, 8:11634-11644. doi:[10.1002/ece3.4615](https://doi.org/10.1002/ece3.4615)
9. Roney, NE, **RA Oomen**, H Knutsen, EM Olsen, & JA Hutchings. 2017. Temporal variability in offspring quality and individual reproductive output in a broadcast-spawning marine fish. *ICES Journal of Marine Science*, 75:1353-1361. doi:[10.1093/icesjms/fsx232](https://doi.org/10.1093/icesjms/fsx232)
8. **Oomen, RA** & JA Hutchings. 2017. Transcriptomic responses to environmental change in fishes: insights from RNA sequencing. *FACETS*, 2:610-641. doi:[10.1139/facets-2017-0015](https://doi.org/10.1139/facets-2017-0015)
7. **Oomen, RA** & JA Hutchings. 2016. Genetic variation in plasticity of life-history traits between Atlantic cod (*Gadus morhua*) populations exposed to contrasting thermal regimes. *Canadian Journal of Zoology*, 94:257-264. doi:[10.1139/cjz-2015-0186](https://doi.org/10.1139/cjz-2015-0186)
6. Kuparinen, A, NE Roney, **RA Oomen**, JA Hutchings, & EM Olsen. 2015. Small-scale life history variability suggests potential for spatial mismatches in Atlantic cod management units. *ICES Journal of Marine Science*, 73:286-292. doi:[10.1093/icesjms/fsv181](https://doi.org/10.1093/icesjms/fsv181)
5. **Oomen, RA** & JA Hutchings. 2015. Genetic variability in reaction norms in fishes. *Environmental Reviews*, 23:353-366. doi:[10.1139/er-2014-0077](https://doi.org/10.1139/er-2014-0077)
4. **Oomen, RA** & JA Hutchings. 2015. Variation in spawning time promotes genetic variability in population responses to environmental change in a marine fish. *Conservation Physiology*, 3:1-12. doi:[10.1093/conphys/cov027](https://doi.org/10.1093/conphys/cov027)
3. **Oomen, RA**, RM Gillett, & CJ Kyle. 2013. Comparison of 454 pyrosequencing methods for characterizing the major histocompatibility complex of nonmodel species and the advantages of ultra deep coverage. *Molecular Ecology Resources*, 13:103-116. doi:[10.1111/1755-0998.12027](https://doi.org/10.1111/1755-0998.12027)
2. **Oomen, RA**, MW Reudink, JJ Nocera, CM Somers, MC Green, & CJ Kyle. 2011. Mitochondrial evidence for panmixia despite perceived barriers to gene flow in a widely distributed waterbird. *Journal of Heredity*, 102:584-592. doi:[10.1093/jhered/esr055](https://doi.org/10.1093/jhered/esr055) *Cover article*
1. Reudink, MW, CJ Kyle, JJ Nocera, **RA Oomen**, MC Green, & CM Somers. 2011. Panmixia on a continental scale in a widely distributed colonial waterbird. *Biological Journal of the Linnean Society*, 102:583-592. doi:[10.1111/j.1095-8312.2010.01608.x](https://doi.org/10.1111/j.1095-8312.2010.01608.x)

## NON-PEER REVIEWED

6. Lien, A, MØ Nygård, AT Laugen, A Lie, A Slettan, BS Johansen, ..., **RA Oomen**, ..., YA Olsen [33 authors]. Utbygging vil ødelegge for biologisk mangfold på campus Gimlemoen ('Development will destroy biodiversity on campus Gimlemoen'). *Fædrelandsvennen* (regional newspaper), 26/06/2023. <https://www.fvn.no/mening/debattinnlegg/i/O8X2zO/utbygging-vil-oedelegge-for-biologisk-mangfold-paa-campus-gimlemoen>
5. **Oomen, RA**, H Knutsen, E Moland, EM Olsen, JA Knutsen, L Bernatchez, NC Stenseth, & P Hart. 2022. Nothing so boundless, nothing so patient: Obituary for Professor Jeffrey Alexander Hutchings (1958-2022). *Fish and Fisheries*, 23:519-521. doi:[10.1111/faf.12661](https://doi.org/10.1111/faf.12661)
4. **Oomen, RA**, SH Thorbjørnsen, M Goodwin, & NC Stenseth. Sørlandstorsken bruker antakelig sin egen dialekt ('South coast cod probably have their own dialect'). *Agderposten* (Regional newspaper), 05/10/2020. <https://www.agderposten.no/meninger/torsken-var-bruker-antakelig-sorlandsdialekt/>
3. **Oomen, RA**. What if by overestimating the complexity of the genomic basis of a trait, we're underestimating the complexity of its evolutionary dynamics? *American Genetic Association Blog*, 29/07/2020. <http://blog.theaga.org/what-if-by-overestimating-the-complexity-of-the-genomic-basis-of-a-trait-were-underestimating-the-complexity-of-its-evolutionary-dynamics/>
2. Baalsrud, HT\*, EM Olsen\*, **RA Oomen\***, & NC Stenseth\*. Torskekrisen i Oslofjorden skyldes mer enn bare klimaendringer ('The cod crisis in the Oslo fjord is due to more than just climate change'). *Aftenposten* (Norway's largest newspaper), 12/11/2019. <https://www.aftenposten.no/viten/i/pLxOqW/torskekrisen-i-oslofjorden-skyldes-mer-enn-bare-klimaendringer> \*authors listed alphabetically – Oomen led the initiative
1. **Oomen, RA**. Decoding how fishes respond to environmental change. *Medium*, 16/08/2017. <https://medium.com/facets/decoding-how-fishes-respond-to-environmental-change-ec7dbd02b8a3>

## INVITED TALKS

## INVITED PLENARIES &amp; KEYNOTES

2023	<i>Early Career Award, Canadian Society for Ecology &amp; Evolution meeting, Winnipeg, MB, Canada</i>
2022	<i>JSMF-SFI Postdocs in Complexity Conference, Santa Fe Institute, NM, US (Career talk)</i>
2022	<i>International Symposium on Reference Genomes for Biodiversity, University of Cologne, Germany, (Keynote)</i>
2022	<i>LUOVA Spring Symposium, University of Helsinki, Finland (Keynote)</i>
2018	<i>Oslo Symposium for Genomics, Ecology, and Evolution, Oslo, Norway</i>
2018	<i>PhD Award, Canadian Society for Ecology &amp; Evolution meeting, Guelph, ON, Canada</i>

## INVITED SYMPOSIUM PRESENTATIONS

2022	<i>'Det Gode Liv // The Sweetness of Living', Barents Spektakel, Kirkenes, Norway [panel]</i>
2020	<i>'Fisheries genomics: illuminating the past, present, and future of exploited fish populations', American Fisheries Society meeting, Columbus, OH, US (online due to COVID-19)</i>
2020	<i>'The expanding role of "omics" in fisheries management: past, present, and future applications', American Fisheries Society meeting, Columbus, OH, US (online due to COVID-19)</i>

- 2019 *'Prediction in the Anthropocene: combining theory and practice'*, Canadian Society for Ecology & Evolution meeting, Fredericton, NB, Canada
- 2019 *'Celebrating Nils Chr. Stenseth's 50 years in science'*, The Norwegian Academy of Sciences and Letters, Oslo, Norway
- 2018 *'Evolutionary Conservation'*, Canadian Society for Ecology & Evolution meeting, Guelph, ON, Canada
- 2018 *'Human impacts on aquatic species and ecosystems'*, European Congress of Conservation Biology, Jyväskylä, Finland
- 2017 *'Bridging the eco-evolutionary gap'*, Association for the Sciences of Limnology and Oceanography meeting, Honolulu, HI, US
- 2008 Ontario Genomics Institute Summer Fellowship Symposium, The MaRS Centre, Toronto, ON, Canada

#### OTHER INVITED TALKS

- 2023 Departmental Seminar, *Dalhousie University, Halifax, NS, Canada [TBD]*
- 2023 Baltic Sea Festival, *Tekniska, Stockholm, Sweden*
- 2023 True Northern Arts Festival, *Festspillene i Nord-Norge, Harstad, Norway*
- 2023 ReCod Meeting, *Ar, Sweden*
- 2023 Webinar to the SKREI Research Centre (National Cod Museum), *Museum Nord, Norway*
- 2023 'In Cod We Trust' Transborder Café introduction, *Barents Spektakel, Kirkenes, Norway*
- 2023 'Dialects of the Deep' Exhibition, *Barents Spektakel, Kirkenes, Norway*
- 2022 Chewing The Tundra, *Kunsthalle Exnergasse, Vienna, Austria [panel]*
- 2022 Open Meeting About the Fish that Disappears: 'Torsken i Skagerrak er borte. Hvorfor?', *Langesund Bad, Norway*
- 2022 Passion For Ocean Festival, *Arendal, Norway*
- 2022 Only Connect Festival of Sound Public Lecture, *MUNCH Museum, Oslo, Norway*
- 2022 Departmental Seminar, *Biology Department, University of New Brunswick Saint John, Canada*
- 2021 Young Researchers Night, *Teateret, Kristiansand, Norway*
- 2021 Ultima Oslo Contemporary Music Festival, *Sentralen, Oslo, Norway [panel]*
- 2021 Galleri ARTendal, *Arendal, Norway*
- 2021 Arendalsuka, *Arendal, Norway*
- 2021 Guest lecture in Evolutionary Biology, *University of Agder, Kristiansand, Norway*
- 2020 Young Researchers Night, *Teateret, Kristiansand, Norway*
- 2020 Guest lecture in Evolution, *University of Hawai'i, Hilo, HI, US*
- 2020 Departmental Seminar, *Department of Zoology, Punjabi University, Patiala, India*
- 2020 JSMP-SFI Postdocs in Complexity Virtual Meeting II, *Santa Fe Institute, Santa Fe, NM, US*
- 2020 Guest lecture in Evolutionary Biology, *University of Agder, Kristiansand, Norway*
- 2019 Scientific Advisory Board Meeting, *Centre for Coastal Research, Flødevigen Research Station, His, Norway*
- 2018 Departmental Seminar, *Dalhousie University, Halifax, NS, Canada*
- 2013 Seminar, *Flødevigen Research Station, His, Norway*



- 2013 Guest lecture in Ecology & Evolution of Fishes, *Dalhousie University, Halifax, NS, Canada*  
 2008 Guest lecture in Introduction to Biology, *York University, Toronto, ON, Canada*

## CONTRIBUTED TALKS

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### CONFERENCE PRESENTATIONS

- 2023 *Norwegian Biodiversity & Genomics Conference, Oslo, Norway*  
 2022 *British Ecological Society Climate Change Genomics Workshop, online*  
 2021 *Canadian Society for Ecology & Evolution meeting #CSEE2021Tweets*  
 2021 *Temporal Genomic Twitter Symposium 2021 #TempGenTweets2021*  
 2020 *Genomic Forecasting Symposium 2020, online due to COVID-19*  
 2020 *Society for Molecular Biology & Evolution meeting, Québec City, QC, Canada (cancelled due to COVID-19)*  
 2020 *Evolution in Sweden conference, Tjärnö, Sweden*  
 2019 *Society for Molecular Biology & Evolution meeting, Manchester, UK*  
 2019 *International Conference on Fish Telemetry, Arendal, Norway [poster]*  
 2019 *Society for Molecular Biology & Evolution Speciation Genomics Workshop, Tjärnö, Sweden*  
 2018 *JSMF-SFI Postdocs in Complexity Conference, Santa Fe, NM, USA*  
 2018 *Biology Graduate Student Symposium, Halifax, NS, Canada*  
 2018 *Biology Graduate Student Symposium, Halifax, NS, Canada [poster] \*best poster*  
 2017 *Centre for Ecological & Evolutionary Synthesis Student Conference, Oslo, Norway \*best talk*  
 2017 *Canadian Society for Ecology & Evolution meeting, Victoria, BC, Canada*  
 2017 *Canadian Society for Ecology & Evolution meeting, Victoria, BC, Canada [poster]*  
 2016 *Centre for Ecological & Evolutionary Synthesis Student Conference, Oslo, Norway*  
 2016 *Canadian Conference For Fisheries Research, St. John's, NF, Canada*  
 2015 *Centre for Ecological & Evolutionary Synthesis Student Conference, Oslo, Norway*  
 2015 *European Marine Biology Symposium. Helgoland, Germany*  
 2015 *Canadian Conference For Fisheries Research, Ottawa, ON, Canada*  
 2014 *Centre for Ecological & Evolutionary Synthesis Student Conference, Oslo, Norway*  
 2013 *Centre for Ecological & Evolutionary Synthesis Student Conference, Oslo, Norway*  
 2012 *Evolution 2012, Ottawa, ON, Canada*  
 2012 *Biology Graduate Student Symposium. Halifax, NS, Canada*  
 2011 *Canadian Society for Ecology & Evolution meeting, Banff, AB, Canada [poster]*  
 2011 *Biology Graduate Student Symposium, Halifax, NS, Canada*  
 2010 *Canadian Society for Ecology & Evolution meeting, Québec City, QC, Canada*  
 2008 *Ontario Genomics Institute Summer Fellowship Symposium, The MaRS Centre, Toronto, ON*

### OTHER CONTRIBUTED TALKS

- 2023 Centre for Marine Evolutionary Biology Spring Assembly, *online*

2022	Centre for Coastal Research Annual Meeting, <i>Thon Hotel Norge, Kristiansand, Norway</i>
2021	Centre for Coastal Research Annual Meeting, <i>Caledonien Hotel, Kristiansand, Norway</i>
2019	Friday Informal Seminar Hour, <i>Dalhousie University, Halifax, NS</i>
2019	Lunch Seminar, <i>University of Oslo, Oslo, Norway</i>
2016	Friday Informal Seminar Hour, <i>Dalhousie University, Halifax, NS</i>
2016	Lunch Seminar, <i>Flødevigen Research Station, His, Norway</i>
2014	Lunch Seminar, <i>Flødevigen Research Station, His, Norway</i>
2013	Friday Informal Seminar Hour, <i>Dalhousie University, Halifax, NS</i>

## FUNDING

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Personal funding total = 3.3 million CAD / 22.3 million NOK

RESEARCH (Funding towards own research programme = 2.99 million CAD / 20.4 million NOK)

2023	Canadian Foundation for Innovation John R. Evans Leaders Fund [ <i>Ecology and Conservation of Endangered Species in Coastal and Marine Systems</i> ] (Co-Investigator with Kurt Samways & Kim Davies; 150k CAD).
2023	New Brunswick Innovation Foundation Talent Recruitment Fund (PI; 55k CAD)
2023	University of New Brunswick Start-up Funds (PI; 15k CAD)
2023	The Royal Swedish Academy of Sciences & Anna-Greta and Holger Crafoord's Fund Grant (PI; 300,000 SEK)
2023-2027	European Research Council (ERC) Advanced Grant [ <i>FishLEGs</i> ] (Partner [PI: Craig Primmer, U. Helsinki]; 2.5 million EUR total, 10k EUR to R. Oomen)
2023-2026	Swedish Research Council (VR) Starting Grant [ <i>CODTYPES</i> ] (PI; 4 million SEK)
2022-2026	Horizon Europe [ <i>Biodiversity Genomics Europe</i> consortium; Topic HE-CL6-2021-BIODIV-01-01] (Lead from U. Oslo [Partner]; 21M EUR total; 451k EUR to R. Oomen)
2022	James S. McDonnell Foundation Micro Working Group Grant [ <i>CodNet</i> ] (PI; 9,024 USD)
2022-2023	Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellowship (PI; 90,000 CAD)
2020	University of Agder Research Topic Application Training Position (PI; ~3 million NOK)
2020	Centre for Coastal Research Internal Research Funds Competition (PI; 50,000 NOK)
2019-2022	James S. McDonnell Foundation 21 <sup>st</sup> Century Postdoctoral Fellowship in Understanding Dynamic and Multi-scale Systems [ <i>The spatial scale, molecular basis, and demographic consequences of variable responses to environmental change</i> ] (PI; 200,000 USD)
2019-2022	Norwegian Research Council MARINFORSK Project Grant [ <i>CodSize</i> , No. 294926] (Partner and coauthor [PI: Esben Olsen, IMR]; 8.7 million NOK total, 1.5 million NOK to U. Oslo)
2019	American Genetic Association Evolutionary, Ecological, or Conservation Genomics Research Award (PI; 8,360 USD)
2019	Centre for Coastal Research Internal Research Funds Competition (PI; 100,000 NOK)
2015	Prediction and Observation of the Marine Environment Mobility Grant (PI; 54,000 NOK)
2014-2016	Norwegian Research Council HAVKYST Project Grant [ <i>Genetic variability in population responses of Atlantic cod to environmental change</i> ] (Named PhD student [PI: Jeff Hutchings]; 2.1 million NOK)

2014	Research Council of Norway Leiv Eiriksson Mobility Grant (PI; 365,000 NOK)
2013	Michael Smith Foreign Study Supplement (6000 CAD)
2010	NSERC Undergraduate Student Research Award (4,500 CAD)
2009	NSERC Undergraduate Student Research Award (4,500 CAD)
2009	Northern Scientific Training Grants Program Award (PI; 2,500 CAD)
2008	Ontario Genomics Institute Industry Research Fellowship Award (provincial; 1000 CAD)

#### TRAVEL & NETWORKING

(Total awarded = 17k CAD / 105k NOK)

2023	UiO:Life Science Event Support Grant, University of Oslo (Lead; 50,000 NOK)
2020	Event support grant, Centre for Coastal Research, University of Agder (Lead; 10,000 NOK)
2020	Event support grant, Department of Biosciences, University of Oslo (Lead; 10,000 NOK)
2020	Event support grant, Centre for Ecological & Evolutionary Synthesis (Lead; 10,000 NOK)
2019	Canadian Society for Ecology & Evolution Travel Grant (500 CAD)
2018	Dalhousie Faculty of Graduate Studies Travel Grant (500 CAD)
2017	Robert and Ella Wenzins Endowment (12,000 NOK)
2016	Clemens-Rigler Travel Award (235 CAD)
2015	Clemens-Rigler Travel Award (330 CAD)
2012	Canadian Society for Ecology & Evolution Travel Grant (500 CAD)

#### ARTISTIC & OUTREACH

(Total awarded = 71k CAD / 442k NOK)

2022	Communication of Science Prize, Institute of Biosciences, University of Oslo (10,000 NOK)
2022	Arts Council of Norway 'Interdisciplinary Event Scheme' (Executive Producer; 150,000 NOK)
2022	Arts Council of Norway 'Other Music Measures' (Executive Producer; 80,000 NOK)
2022	Arts Council of Norway 'Visual Art Project Support' (Executive Producer; 70,000 NOK)
2021	Norwegian Research Council MARINFORSK Event Support Grant [ <i>Torsketrokking</i> , No. 329748] (PI; 31,000 NOK)
2019-2021	Arts Council of Norway 'Audio and Visual Fund' (Executive Producer; 100,000 NOK)
2018	Society for Conservation Biology Student Blogging Contest (international; 100 USD)

#### SCHOLARSHIPS

(Total awarded = 201k CAD / 1.3 million NOK)

2016-2017	Nova Scotia Graduate Scholarship (15,000 CAD)
2014-2016	Killam Predoctoral Scholarship (25,000 CAD)
2013-2015	NSERC Alexander Graham Bell Canada Graduate Scholarship D3 (105,000 CAD)
2013-2015	Dalhousie President's Award (tuition = 26,370 CAD)
2011	Sushi Nami Royale Graduate Scholarship (1,000 CAD)
2010-2011	NSERC Alexander Graham Bell Canada Graduate Scholarship M (17,500 CAD)
2010-2011	Ontario Graduate Scholarship (declined) (15,000 CAD)
2007	J.J. Robinette Scholarship for academic achievement (500 CAD)



- 2006-2009 Trent National Renewable Scholarship (10,000 CAD)  
 2006-2009 Queen Elizabeth Aiming for the Top Scholarship (400 CAD)

### GRANT PROPOSALS PENDING

(Date of anticipated results is given)

- Oct. 2023 Norwegian Research Council Research Projects for Young Talents (FRIPRO)[Title: *EPIC PLANTS*]. Partner (PI: José Cerca). 8 million NOK requested.  
 Dec. 2023 Philip-Sørensens Stiftelse [Title: Resolving mechanisms maintaining divergent Atlantic cod ecotypes in a hybrid zone]. PI. 250,000 SEK requested.

### OTHER AWARDS

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- 2012 Dalhousie Governors' Award for extracurricular leadership (institutional; 1,200 CAD)  
 2012 Biology Organization of Graduate Students Outstanding Executive Award (departmental)  
 2011 Phi Kappa Pi Joe Ghiz Memorial Award for student leadership (institutional; 750 CAD)

### TEACHING

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- 2023 Instructor of Record, Evolution (3-4<sup>th</sup> year), University of New Brunswick Saint John  
 2023 Co-Instructor of Record, Functional Ecology of Fishes (3-4<sup>th</sup> year; Marine Semester), University of New Brunswick Saint John  
 2020, 2021 Guest lecturer, Evolutionary Biology (1<sup>st</sup> year), University of Agder  
 2020 Guest lecturer, Evolution (1<sup>st</sup> year, 2 lectures), University of Hawai'i at Hilo  
 2016 Instructor of Record, High Throughput Sequencing & Bioinformatics, RNA-sequencing Module (MSc/PhD), University of Oslo  
 2013 Guest lecturer, Ecology & Evolution of Fishes (3<sup>rd</sup> year), Dalhousie University  
 2011, 2012 Laboratory demonstrator, Marine Life of Nova Scotia (non-majors), Dalhousie University  
 2011-2012 Biology tutor, Dalhousie University  
 2011 Teaching assistant, Genetics & Molecular Biology (2<sup>nd</sup> year), Dalhousie University  
 2010 Video demonstrator, Introduction to Forensics (1<sup>st</sup> year online course), Trent University  
 2009 Teaching assistant, Vertebrate Zoology (2<sup>nd</sup> year), Trent University  
 2009 Forensic Science Enrichment Camp leader (secondary school), Trent University  
 2008 Guest lecturer, Introduction to Biology (1<sup>st</sup> year), York University

### MENTORING & SUPERVISION

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- 2023- Supervisor, Simon Henriksson, PhD thesis, University of Gothenburg  
 2023- Supervisor, Annika Lie, Research Assistant, University of Agder  
 2023- Supervisor, Thomas Marcussen, Adviser (Sampling Coordinator), University of Oslo  
 2023- Co-Supervisor, Giada Ferrari, Head Engineer, Norwegian Sequencing Centre  
 2021-2023 Supervisor, Annika Lie, MSc thesis, University of Agder (now a Research Assistant at the University of Agder)

- 2021-2023 Supervisor, Jeppe Have Rasmussen, Postdoctoral Research Fellow, Centre for Coastal Research, University of Agder (now independent Carlsberg Foundation Fellow)
- 2021 Supervisor, Emilie Kvåle Sletterød Andersen, BSc thesis, University of Agder
- 2021 Supervisor, Julie Eriksen, BSc thesis, University of Agder
- 2021 Co-supervisor, Nora Isnes Johansen, BSc thesis, University of Agder
- 2021 Co-supervisor, Amalie Godstad, BSc thesis, University of Agder
- 2021 Supervisor, Fredrick Nicolai Clausen, BSc thesis, University of Agder
- 2021 Supervisor, Paul Elias Homme, BSc thesis, University of Agder
- 2020-2021 Co-supervisor, Griet Nobis, MSc thesis, Norwegian University of Life Sciences (now Aquatic Biological Consultant with Bioconsult)
- 2014-2016 Co-supervisor, Elisabeth Juliussen, MSc thesis, University of Oslo (now Environmental Advisor to the County Governor of Agder)
- 2013-2015 Co-op supervisor, 5 students\*, Institute of Marine Research Flødevigen, Norway
- 2011-2012 Undergraduate supervisor, Chelsea Boaler, Aquatron Laboratory, Dalhousie University
- 2011-2012 Undergraduate supervisor, Brianna Mosher, Aquatron Laboratory, Dalhousie University
- 2009-2010 Co-op mentor, 1 student\*, Natural Resources DNA Profiling & Forensic Centre, Trent University

\*I do not provide the names of minors due to privacy concerns.

## THESIS COMMITTEES

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- 2023- Sarah Harrison, MSc, University of New Brunswick Saint John

## OUTREACH & ARTISTIC DEVELOPMENT

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- 2023 **Co-creator / Executive Producer**, [TORSKETROMMING: Dialects of the Deep Östersjöfestivalen](#), Stockholm, 24/08-02/09/23 [workshop, performance, exhibition]  
[True Northern Arts Festival](#), Harstad, 24/06-01/07/23 [sound installation, concert]  
[Barents Spektakel](#), Kirkenes, 24/02-01/03/23 [lecture, concert, installation, panel] *Headliner*  
 Tekniska Museet, Stockholm, 11-12/02/23 [interactive workshop/performance]  
 DKS-LAB: Den kulturelle skolesekken Norge, Kirkenes, 02/23 [children's workshops]
- 2022 **Co-creator / Executive Producer**, [TORSKETROMMING: Cod Connection Chewing The Tundra](#), Kunsthalle Exnergasse, Vienna, 02/11-17/12/22 [installation, concert]  
[Biodiversity Genomics 2022](#), online, 07/10/22 [concert, Q&A]  
[Øyepå Lofoten International Art Festival \(LIAF\)](#), Kabelvåg, 22/09/22 [panel]  
 DKS-LAB: Den kulturelle skolesekken Norge, Kirkenes, 05-08/09/22 [children's workshops]  
[Passion for Ocean Festivalene](#), Stavanger, 04/09/22 [talk, performance]  
[Passion for Ocean Festivalene](#), Arendal, 27/08/22 [talk, performance, installation]  
[Torskens Kunstfestival](#), Torskeholmen, Grimstad, 16/07/22 [performance, installation]  
[Passion for Ocean Festivalene](#), Trondheim, 04/06/22 [talk, performance]  
[Only Connect Festival](#), Munch Museum, Oslo, 29-30/04/22 [performance, installation]

- [Barents Spektakel](#), Kirkenes, 26/02/22 [panel & demonstration]
- 2022 **Writer / contributor**, [UNDERFLATE](#), SALT Art & Music, 18/08-16/10/22 [exhibition, publication]
- 2022 Invited guest, [Women in Ecology & Evolution Podcast](#) “Open Science” episode, 04/05/22
- 2021 **Co-creator / Executive Producer**, [TORSKETROMMING: 2021 TOUR](#)
- [Arendalsuka](#), Bomuldsfabriken, Arendal, 17/08/21 [preview]
- [Ultima Contemporary Music Festival](#), Sentralen, Oslo, 19/09/21 [world premiere]
- ['As far as my Eye can Sea' exhibition](#), Bomuldsfabriken, Arendal, 23/09/21 [performance]
- [Young Researchers Night](#), Teateret, Kristiansand, 24/09/21 [talk & performance]
- In the media: [NRK](#), [VG-TV](#), [NRK Radio P1 Finnmarkssendinga](#), [Aftenposten](#), [Agderposten](#), [Fædrelandsvennen](#), [Titan](#), [ABC Nyheter](#), [Forskning.no](#), [Oppland Arbeiderblad](#), [Romsdals Budstikke](#), [Bladet Vesterålen](#), [Nynorsk Pressekontor](#), ++
- 2020 Invited guest, [Women in Ecology & Evolution Podcast](#) “Paper in Focus” segment, 23/10/20
- 2020 **Lead author**, Op-ed: [‘South coast cod probably have their own dialect’](#), in [Agderposten](#) (Regional newspaper), 05/10/20
- 2020 Feature guest, [TORSKE-TV](#) (‘COD-TV’), cod spawning live-stream with article and video interviews by the Institute of Marine Research, 16/03/20, picked up by [Sweden’s Fishermen Organisation](#) and [Diving Magazine](#)
- 2020 Exhibitor, [TORSKETROMMING](#) (‘COD DRUMMING’), Life Sciences Exhibition at the Technical Museum of Oslo, 13/02/20 *\*invited participant*
- 2019 **Lead author**, Op-ed: [‘The cod crisis in the Oslo fjord is due to more than just climate change’](#), in [Aftenposten](#) (Norway’s largest newspaper), 12/11/19
- 2019-2020 Executive Producer, [TORSKETROMMING](#), a scientific and artistic investigation into the role of sound in the Atlantic cod mating ritual
- 2019 Exhibitor, *Torsk og du!* (‘Cod and you!’), Oslo Science Expo
- 2017 Organizing Committee member, March for Science Oslo, Norway
- 2017 **Co-creator/performer** of *‘Shoulders of Giants’*, a science outreach music video (<https://youtu.be/3h8CW3WE8I8>) >9,000 views
- 2017 **Author**, [popular science article](#) for Oomen & Hutchings 2017, in *Medium*
- 2015 Feature guest, [Havforskerne](#) (‘Oceanographers’) episode 3, *Torsk* (‘Cod’)
- 2010 Guest appearance, *Daily Planet*, *Science in the City*

## PROFESSIONAL SERVICE

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- 2023 **Lead Organizer**, *Norwegian Biodiversity & Genomics Conference 2023*
- 2021,2022 Expert Reviewer, *ForBio Research School MSCA-IF Training Program*
- 2021 **Lead Organizer**, *‘Genomic Forecasting Symposium’*, *Society for Molecular Biology & Evolution 2021 virtual meeting*
- 2021-2023 **Council Representative for Norway**, European Reference Genome Atlas (ERGA) Council
- 2021- **Co-chair**, ERGA Ethical, Legal, and Social Issues (ELSI) Committee
- 2021- **Co-chair**, ERGA Justice, Equity, Diversity, and Inclusion (JEDI) Sub-committee

- 2021- ERGA Pilot Project Sample Ambassador
- 2021-2023 ERGA Bylaws Working Group
- 2020 Expert Panel Member, Icelandic Research Fund
- 2020 **Lead Organizer**, 'Genomic Forecasting Symposium 2020' (online due to COVID-19)
- 2020 Symposium co-organizer, 'Genomic predictions of responses to the environment', *Society for Molecular Biology & Evolution 2020 meeting* (cancelled due to COVID-19)
- 2019, 2020 Canadian Society for Ecology & Evolution Excellence in Doctoral Research Award Panel
- 2018- **Editorial Board member**, *Scientific Data* (Nature Publishing Group)
- 2012- Reviewer [n>1]: *Molecular Ecology* [5], *Journal of Animal Ecology* [2], *ICES Journal of Marine Science* [2], *Aquaculture Research* [2], *Molecular Ecology Resources*, *PNAS*, *Evolutionary Applications*, *BMC Ecology & Evolution*, *Conservation Physiology*, *Ecology & Evolution*, and *Journal of Sea Research*

## ELECTED POSITIONS

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- 2021-2023 Council Representative for Norway, European Reference Genome Atlas (ERGA) Consortium
- 2011-2012 Graduate Student Senator, Dalhousie University Senate
- 2011-2012 President, Biology Organization of Graduate Students
- 2011-2012 Lett Symposium Coordinator
- 2009-2010 Student Departmental Representative, Forensic Science Department
- 2008-2010 Secretary, Forensic Science Society

## WORKING GROUPS/CONSORTIA

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- 2022- 'CodNet' Working Group [**Lead**], *Santa Fe Institute, Santa Fe, NM, USA*.
- 2022-2023 Earth BioGenome Project (EBP) [Affiliate Project Representative for EBP-Nor]
- 2021- Biodiversity Genomics Europe (BioGenEU) consortium for Horizon Europe Topic: HE-CL6-2021-BIODIV-01-01
- 2021- Earth BioGenome Project Norway (EBP-Nor) [**Scientific Coordinator 2022-**], *University of Oslo, Norway*
- 2020- The European Reference Genome Atlas (ERGA) Consortium (<https://www.erga-biodiversity.eu>)
- 2020-2022 'Promoting marine and maritime research in Horizon Europe', WP1: Sustainable food systems, including aquaculture and fisheries, *Norwegian Marine University Consortium and Norwegian Ocean Alliance to Horizon Europe*
- 2019-2021 'Coastal zones in times of change', *Centre for Coastal Research, Kristiansand, Norway*
- 2018-2022 'Sociality under scarcity', *Santa Fe Institute, Santa Fe, NM, USA*

## WORKSHOPS

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- 2023 *ELISE Workshop on AI for ocean restoration and marine protection, online*
- 2022 *British Ecological Society Climate Change Genomics Workshop, online*
- 2021 *Machine Learning in R, University of Oslo, Oslo, Norway*

- 2019 *Society for Molecular Biology & Evolution Speciation Genomics workshop, Tjärnö, Sweden*
- 2017 *Science Communication workshop, Alan Alda Centre for Communicating Science, Oslo, Norway* *\*invited participant*
- 2017 *Nature Masterclass workshop, Fredrikstad, Norway*

## ACADEMIC SERVICE

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- 2019 Centre for Ecological & Evolutionary Synthesis Student Awards Committee
- 2016 Young Researchers' Day CEES Organizing Committee
- 2011-2012 Dalhousie University Senate
- 2011-2012 Senate Academic Programs and Research Committee
- 2011-2012 Senate Discipline Committee
- 2011-2012 Faculty of Graduate Studies (FGS) Council
- 2011-2012 FGS Appeals Committee
- 2012 FGS Associate Dean Review Committee
- 2011-2012 Biology Organization of Graduate Students Executive Committee (Chair)
- 2011-2012 Biology Organization of Graduate Students Social Committee
- 2011-2012 Biology Graduate Student Retreat Organizing Committee (Chair)
- 2011-2012 Annual Bioball Committee
- 2011-2012 Association of Biobeer Servers
- 2011-2012 Dalhousie Association of Graduate Students (DAGS) Board Member
- 2011-2012 DAGS Academic & External Relations Committee
- 2011-2012 DAGS Governance Committee
- 2011-2012 Dalhousie Student Union (DSU) Council
- 2011-2012 Graduate Advisory Committee
- 2011-2012 Senate Caucus
- 2011-2012 DSU Grants Committee
- 2011-2012 DSU Student Accessibility Fund Committee
- 2011-2012 DSU Academic and External Committee
- 2011-2012 Department of Biology Committee of the Whole
- 2011-2012 Committee of the Whole Graduate Directorate Subcommittee
- 2011-2012 Lett Symposium Organizing Committee (Co-Chair)
- 2007-2010 Forensic Science Society Executive Committee

## EXTRACURRICULAR SERVICE

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- 2018- Board member and organizer, Kampenjazz Jazz Club, Oslo, Norway  
 Winner of Norway's Best Jazz Club 2018 by [Now's The Time](#)  
 "[...the big musical climax for me...](#)" – David Fricke, Senior Editor of *Rolling Stone*, 07/12/18
- 2017 Music Director, Save The Arctic fundraising concert, Oslo, Norway



2017 Music Director, March for Science Oslo, Norway  
2010-2011 Big sister with Big Brothers Big Sisters of Greater Halifax  
2010 Judging team captain at the Canada Wide Science Fair

## MEMBERSHIP

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Canadian Society for Ecology & Evolution  
European Society for Evolutionary Biology  
Society for the Study of Evolution  
Society for Molecular Biology & Evolution  
American Genetics Association  
American Fisheries Society  
Evidence for Democracy Network of Experts  
The Research Coordinated Network for Evolution in Changing Seas

## LANGUAGES

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English – Native  
Norwegian – Limited working proficiency (CEFR level B1 [writing, speaking] & B2 [reading, listening])  
French – Elementary proficiency (Grade 12)