

# 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 Biological Sciences, University of New Brunswick Saint John (from July 1<sup>st</sup>)
- 2023- Researcher, Department of Marine Sciences, University of Gothenburg, Tjärnö Marine Lab
- 2022- Researcher & Adviser, 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
- 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. Thesis: 'The genomic basis and spatial scale of variation in thermal responses of Atlantic cod' (Supervisor: Dr. Jeff Hutchings)
- 2011-2012 MSc, Ecology & Evolution, Dalhousie University. Thesis: 'Adaptive and non-adaptive plasticity and fine-scale genetic variation in life-history reaction norms in Atlantic cod' (Supervisor: Dr. Jeff Hutchings)
- 2006-2010 BScFS (Honours), Forensic Science, Trent University. Thesis: 'Genetic homogeneity in American white pelicans' (Supervisor: Dr. Chris Kyle)

## SELECT AWARDS & HONOURS

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- 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 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 = 12, citations > 580 [[Google Scholar](#)]) † indicates mentee co-author

*Preprints / in review / in revision*

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<sup>†</sup>, 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*, early view. doi:[10.1086/725426](https://doi.org/10.1086/725426)

22. Theissinger K, G Formenti, C Fernandes, ..., **RA Oomen**<sup>\*</sup>, ..., J Höglund (25 authors + European Reference Genome Atlas [ERGA] Consortium). 2023. How genomics can help biodiversity conservation. *Trends in Genetics*, early view. 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*, icac145. 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<sup>†</sup>, 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<sup>\*</sup>, KT Halvorsen<sup>\*</sup>, L Jiao<sup>\*</sup>, KM Knausgård<sup>\*</sup>, AH Martin<sup>\*</sup>, M Moyano<sup>\*</sup>, **RA Oomen**<sup>\*†</sup>, JH Rasmussen<sup>\*†</sup>, TK Sørtdalen<sup>\*</sup>, & SH Thorbjørnsen<sup>\*</sup>. 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**<sup>\*</sup>, ..., 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<sup>†</sup>, L MacKay<sup>\*</sup>, SE Haworth<sup>\*</sup>, ML Cossette<sup>\*</sup>, MN Dedato<sup>\*</sup>, KB Young<sup>\*</sup>, CI Elliott<sup>\*</sup>, & **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**<sup>\*</sup>, ..., J Ziemacki<sup>\*</sup> (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<sup>\*</sup>, J Bhardwaj<sup>\*</sup>, D Catarino<sup>\*</sup>, A Fernandez-Chacon<sup>\*</sup>, K Martinez-Swatson<sup>\*</sup>, K Ono<sup>\*</sup>, **RA Oomen**<sup>\*</sup>, M Sodeland<sup>\*</sup>, TK Sørtdalen<sup>\*</sup>, A-E Synnes<sup>\*</sup>, SH Thorbjørnsen<sup>\*</sup>, & J Thormar<sup>\*</sup>. 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

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

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### INVITED PLENARIES & KEYNOTES

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

### INVITED SYMPOSIUM PRESENTATIONS

- 2022 *'Det Gode Liv // The Sweetness of Living', Barents Spektakel, Kirkenes, Norway [panel]*
- 2020 *'Fisheries genomics: illuminating the past, present, and future of exploited fish populations', American Fisheries Society meeting, Columbus, OH, US (online due to COVID-19)*
- 2020 *'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)*
- 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 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 JSMF-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

## 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

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

## FUNDING

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Personal funding total = 3.08 million CAD / 20.6 million NOK

RESEARCH (Funding towards own research programme = 2.77 million CAD / 18.7 million NOK)

- 2023 *The Royal Swedish Academy of Sciences & Anna-Greta and Holger Crafoord's Fund Grant for Research on Speciation (PI; 300,000 SEK)*
- 2023-2027 *European Research Council (ERC) Advanced Grant [FishLEGS] (Partner [PI: Craig Primmer, U. Helsinki]; 2.5 million EUR total, 10k EUR to R. Oomen)*

- 2023-2026 Swedish Research Council (VR) Starting Grant [*CODTYPES*] (PI; 4 million SEK)
- 2022-2026 Horizon Europe [*Biodiversity Genomics Europe* 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 [*CodNet*] (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 [*The spatial scale, molecular basis, and demographic consequences of variable responses to environmental change*] (PI; 200,000 USD)
- 2019-2022 Norwegian Research Council MARINFORSK Project Grant [*CodSize*, 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 [*Genetic variability in population responses of Atlantic cod to environmental change*] (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>Torsketromming</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)

Apr. 2023	Marie Skłodowska-Curie Action – Doctoral Networks [Title: <i>ClimAdapt</i> ]. Co-PI. 2.8 million EUR total requested, 595,497 EUR to R. Oomen.
Jun. 2023	Canadian Foundation for Innovation John R. Evans Leaders Fund [Title: <i>Ecology and Conservation of Endangered Species in Coastal and Marine Systems</i> ]. Co-Investigator with Kurt Samways & Kim Davies. 300k CAD total requested. 174k CAD to R. Oomen.
Aug. 2023	European Society for Evolutionary Biology Special Topic Network [Title: <i>The evolutionary role of structural genomic variation</i> ]. Co-PI. 30,000 EUR requested.
Sept. 2023	Norwegian Research Council Research Projects for Young Talents (Oceans)[Title: <i>FLOWFish</i> ]. Partner (PI: Kate McQueen). 8 million NOK requested.
Oct. 2023	Norwegian Research Council Research Projects for Young Talents (FRIPRO)[Title: <i>EPIC PLANTS</i> ]. Partner (PI: José Cerca). 8 million NOK 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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- 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, Thomas Marcussen, Adviser (Sampling Coordinator), University of Oslo
- 2023- Co-Supervisor, Giada Ferrari, Head Engineer, Norwegian Sequencing Centre
- 2021- Supervisor, Annika Lie, MSc thesis, University of Agder
- 2021- Supervisor, Jeppe Have Rasmussen, Postdoctoral Research Fellow, Centre for Coastal Research, University of Agder
- 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
- 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.

## 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