

# Curriculum vitae with track record

Updated May.2022

## \* PERSONAL INFORMATION

*Family name, First name:	Haave, Marte		
*Date of birth:	22.06.1976	*Sex:	Female
*Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID ID: 0000-0002-8590-2067/		
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## \* EDUCATION

2011	Ph.D. Faculty of Mathematics and Natural Science, Dep. of biological Sciences, University of Bergen, NIFES (National Institute of Nutrition and Seafood Research, Norway
2001	Cand. Scient (Master's): Faculty of Natural sciences), Biological Institute, Norwegian University of Science and Technology (NTNU) Norway.

## Current Position

2020-present	Associate professor (20%) at the University of Bergen, Department of Chemistry, Norway
2012-present	Senior Researcher NORCE Climate & Environment (previously Uni Research), Bergen, Norway

## Previous positions held

2011-2012	Advisor, section for hazardous wastes, Franzefoss Recycling AS, Bergen, NORWAY
2011-2013	Independent Research consultant (20%), Nordic Research Conference Network and Nordic Innovation Center (NICE), Norway
2006-2011-	UiB/ NIFES PhD scholarship
2004-2005	Institute for Biomedicine, Anatomy and Cell biology, Research technician
2001-2004	Schering-Plough AS, Pharmaceutical representative, Head of district, Action manager

## PROJECT MANAGEMENT EXPERIENCE

### Projects funded by Research Council of Norway, international research programmes, private or public organisations

2020-present	North Atlantic Microplastic Centre (NAMC), Scientific centre leader, funded by Sparebanken Vest, "Agenda Vestlandet"
2020-present	Towards an Environmental Risk Assessment of Microplastics – Optimization of Monitoring Methods and Test Battery for Ecotoxicology Testing (MICRO –OPT), funded by Handelens Miljøfond
2020-2021	Plastsmart/Bergen Chamber of Commerce "Microplastic in Laundries" Scientific Project leader. Norwegian Retailers' Environment fund
2019-2021	Beach-Cleaning the coast of Jæren". PI. With Jæren Recreational Council. Funded by the Norwegian Environmental Agency
2018-2020	NORCE – "quantification of Microplastic in fillet and organs of farmed salmon- a comparison of methods for detection and quantification-SalmoDetect" FHF project

	#901521, Funded by FHF
2018-2022	Bergen Municipality, "Mapping microplastic in the urban environment – concentrations, sources and distribution" (Urban Microplastic- RFFV #284827, Project leader, funded by Bergen Municipality and Regional Research Funds West
2018-2020	"Microplastics in salmon farms" Project Leader. Funded by Lerøy Seafood Group
2016-2017	"Cost-efficient methods for mapping microplastics in Byfjorden in Bergen". Project Leader. Funded by RFFV #258890
2013-2016	Statoil (Equinor), manager for framework agreement and projects on environmental monitoring for land-based facilities in Western Norway

## SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

	No. of	Master's students/ Ph.D./Postdocs	Name of faculty/department/centre, name of university/institution/country
2021-ongoing	2	(MSc) Emilie Hæggernes (MSc) Angelina Olsen	University of Bergen /Chemical Institute/ NORCE Climate & Environment, Norway
2019-2020	1	(MSc) Taran Henriksen	University of Bergen /Dep.- of biological sciences/ NORCE Climate & Environment, Norway
2018-2019	1	(MSc), Max Beaurepaire	Internship student École Normale Supérieure de Lyon/ University of Lyon, France
2009-2010	1	(MSc) Annette Bernhard	University of Bergen / Dep.- of biological sciences/NIFES, NORWAY

## TEACHING ACTIVITIES

	Teaching position – topic, name of university/institution/country
2021	Microplastic Course, <b>BIO316</b> /selected topics in toxicology/University of Bergen/Norway
2019	Participating Organizer for "Microplastics Introductory Course" for students and researchers at during Ocean Outlook conference at IMR, with Woods Hole Oceanographic Institution (WHOI, USA) (20 participating students at lab-course)/Norway
2018	Main organizer for 1 day "Microplastics Introductory Course" for students and researchers at Woods Hole Oceanographic Institution during <b>Ocean Outlook conference</b> , with WHOI (USA) and Institute of Marine Research (IMR)/ (25 participating students at lab-course)/USA
2017-2018	Lecturer – <b>BIO216, and BIO316</b> /selected topics in toxicology/University of Bergen/Norway
2017-2017	Lecturer <b>HTEK101</b> , Introduction to marine biology/ University of Bergen, Norway
2017-2017	" <b>Plastkurs /Plastic course</b> " 1 hr Lecture for teachers, Centre for Science Education, University of Bergen/ Norway
2017-2017	" <b>Plastforsøpling/ Plastic littering</b> " 1 hr Lecture for teachers, Centre for Science Education, University of Bergen/ Norway
2016-2018	Host for students in Practical science course (BIO298 and BIO299) from BIO/University of Bergen, Norway

## INSTITUTIONAL RESPONSIBILITIES (if applicable)

2016-2018	Research Group leader at Uni Research Environment, SAM- Marin, NORWAY
2012-2016	HSE responsible, through Eco Online (Eco Exposure / Eco Archive)/Uni Research, Norway

## MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES / NETWORKS

2018-2019	Member of the Norwegian Scientific Committee for Food Safety (VKM) scientific panel on Microplastics, Norway
2018-2020	NORCE, Interdisciplinary research coordinator for microplastic research through the institute strategy project "PET- Plastic Plattform"

## MAJOR COLLABORATIONS

Leader of the North Atlantic Microplastic Centre	International network of microplastic researchers, focus on analytical methods, occurrence, exposure, effects and hazards
NIVA/ Norwegian institute for Water research/section for environmental contaminants, Norway	Microplastic monitoring and effects
NVI/ Norwegian Veterinary Institute/ Bergen	Microplastic occurrence and effects
SINTEF Ocean/ Dep. for Environment and New Resources	Microplastic analyses and effects
Aalborg University, The Faculty of Engineering and Science, Division of Water and Environment	Microplastic analyses
Alfred Wegener Institute for Polar and Marine Research, Helmholtz, Helgoland	Microplastic occurrence and analyses

### Track record

14 peer reviewed publications

### Peer reviewed papers

- Haave M**, Henriksen T (2022) Sources and Fate of Microplastics in Urban Systems. In: Rocha-Santos T., Costa M., Mouneyrac C. (eds) Handbook of Microplastics in the Environment. Springer, Cham. [https://doi.org/10.1007/978-3-030-10618-8\\_44-1](https://doi.org/10.1007/978-3-030-10618-8_44-1)
- Bastesen E, **Haave M**, Andersen GL, Velle G, Bødtker G and Krafft CG. (2021). Rapid Landscape Changes in Plastic Bays Along the Norwegian Coastline. *Frontiers in Marine Science* 8(166). DOI: 10.3389/fmars.2021.579913
- Haave M**, Gomiero A, Schönheit J, Nilsen H, Olsen AB (2021). Documentation of Microplastics in Tissues of Wild Coastal Animals. *Frontiers in Environmental Science* 9(31). DOI: 10.3389/fenvs.2021.575058
- Lusher, A. L., Hurley, R., Arp, H. P. H., Booth, A. M., Brate, I. L. N., Gabrielsen, G. W., Gomiero, A., Gomes, T., Grosvik, B. E., Green, N., **Haave, M.**, Hallanger, I. G., Halsband, C., Herzke, D., Joner, E. J., Kogel, T., Rakkestad, K., Rannekleiv, S. B., Wagner, M. and Olsen, M. (2021). Moving forward in microplastic research: A Norwegian perspective. *Environ Int* 157: 106794. DOI: 10.1016/j.envint.2021.106794
- VKM 2019 Skåre, JU; Alexander J, **Haave M**, Jakubowicz I, Knutsen HK, Lusher A, Ogonowski M, Rakkestad KE; Skaar I, ; Sverdrup LE, Wagner M (et al.) Microplastics; occurrence, levels and implications for environment and human health related to food. Scientific opinion of the Scientific Steering Committee of the Norwegian Scientific Committee for Food and Environment. Oslo, Norway: Norwegian Scientific Committee for Food and Environment (VKM) 2019 (ISBN 978-82-8259-332-8) 175 s. VKM Report (2019:16)
- Haave M**, Lorenz C, Primpke S, Gerdtts G. Different stories told by small and large microplastics - First report of microplastic concentrations in an urban recipient in Norway. *Marine Pollution Bulletin* 141: 501-513 <https://doi.org/10.1016/j.marpolbul.2019.02.015>.
- Johansen P-O, Isaksen TE, Bye-Ingebrigtsen E, **Haave M**, Dahlgren TG, Kvalø SE, Greenacre M, Durand D, Rapp HT. 2018. Temporal changes in benthic macrofauna on the west coast of Norway resulting from human activities, *Marine Pollution Bulletin*. 128: 483-495.
- Haave M**, Folven KI, Carroll T, Glover C, Heegaard E, Brattelid T, Hogstrand C, Lundebye AK. 2011. Cerebral gene expression and neurobehavioural development after perinatal exposure to an environmentally relevant polybrominated diphenylether (BDE47). *Cell Biol Toxicol*. 27: 343-361.
- Haave M**, Bernhard A, Folven KI, Brattelid T, Lundebye AK. 2011. Fish consumption reduces transfer of BDE47 from dam to murine offspring. *Chemosphere*. 84: 348-54.
- Haave M**, Bernhard A, Jellestad FK, Heegaard E, Brattelid T, Lundebye AK. 2011. Long-term effects of environmentally relevant doses of 2,2',4,4',5,5' hexachlorobiphenyl (PCB153) on neurobehavioural development, health and spontaneous behaviour in maternally exposed mice. *Behav Brain Funct*. 13: 7:3
- Hogstrand C, Carroll TS, Rasinger JD, Reffatto V, Lundebye AK, **Haave M**, Tassinari R, Altieri I, Maranghi F, Moracci G, Patriarca P, Mantovani A, Menditto A, Macri A. 2010. Systems biology investigation of the mechanisms of brominated flame retardant neurotoxicity. In: *Comparative Biochemistry and Physiology. Part A, Molecular & Integrative Physiology*. 157: S4 - S4
- Bøe SO, **Haave M**, Jul-Larsen A, Grudic A, Bjerkvig R, Lønning PE. 2006. Promyelocytic leukemia nuclear bodies are predetermined processing sites for damaged DNA. *J Cell Sci*. 119 (Pt 16): 3284-3295.

- Ropstad E, Oskam IC, Lyche JL, Larsen HJ, Lie E, **Haave M**, Dahl E, Wiger R, Skaare JU. 2006. Endocrine disruption induced by organochlorines (OCs): field studies and experimental models. *J Toxicol Environ Health A*. 69: 53-76.
- Haave M**, Ropstad E, Derocher AE, Lie E, Dahl E, Wiig Ø, Skaare JU, Jenssen BM. 2003. Polychlorinated biphenyls and reproductive hormones in female polar bears at Svalbard. *Environ Health Perspect*. 111: 431-6

### Other outputs of relevance (peer reviewed conference proceedings – only most recent)

- Haave M**, Olsen, AB, Schönheit J, Nilsen H, Gomiero A, Occurrence and effects of microplastics in tissues of coastal wildlife. In MICRO 2020. Fate and Impact of Microplastics: Knowledge and Responsibilities. 999 pp. MSFS+WNICBR (Eds). ISBN 978-84-09-28637-9. CC-BY-NC-SA, 2021.
- Bødtker G, Hovland B, **Haave M**, Andersen GL and Bastesen E. Long-term effect of microplastic on soil microbial community in coastal environment. In MICRO 2020. Fate and Impact of Microplastics: Knowledge and Responsibilities. 999 pp. MSFS+WNICBR (Eds). ISBN 978-84-09-28637-9. CC-BY-NC-SA, 2021.
- Gomiero, A, **Haave M**, Bjørøy Ø, Herzke D, Kögel T, Nikiforov, V, Øysæd, KB. In MICRO 2020. Fate and Impact of Microplastics: Knowledge and Responsibilities. 999 pp. MSFS+WNICBR (Eds). ISBN 978-84-09-28637-9. CC-BY-NC-SA, 2021
- Haave M**, Lorenz C, Primpke S, Gerdtz G. 2018. Microplastic occurrence and distribution from discharge points to deep basins in an urban model fjord. In: Baztan J., Bergmann M., Carrasco A., Fossi C., Jørgensen B., Miguelez A., Pahl S., Thompson R.C., Vanderlinden J-P. (Eds.) 2018, MICRO 2018. Fate and Impact of Microplastics: Knowledge, Actions and Solutions. 414 pp. MSFS-RBLZ. ISBN 978-84-09-06477-9 . CC-BY-NC-SA.

### Latest reports 2019-2021: see also the Cristin database

- Ernstsen AH, Normann AK, Sandberg JH, Busch KET, **Haave M**, Gabrielsen GW. Blått kompass: Stø kurs mot bærekraft i norske havnæringer, Kap.5 Havplast – konsekvenser og løsninger En publikasjon fra Senter for hav og Arktis ISBN 978-82-93806-08-0
- Henriksen T, Alessio G, **Haave M**. Måling av mikroplast i næringsvaskeri. NORCE Norwegian Research Centre 2021 (ISBN 978-82-8408-164-9) 22 pp. NORCE
- Haave M**, Bastesen E. Sluttrapportering Registreringsarbeid under prosjektet «Ryddeaksjon Jærkysten» 2018–2020. : NORCE Norwegian Research Centre 2021 (ISBN 978-82-8408-135-9) 29 p. NORCE
- Velle G, Barlaup B, Espedal EO, Haave M, Landro Y, Normann E, Postler C, Skoglund H, Stranzl S, Støger E og Wiers T. 2020. Plast i elver på Vestlandet. NORCE LFI rapport 390. NORCE Bergen. ISSN 1892-8889
- Gomiero, A, **Haave M**, Øysæd KB, Herzke D, Nikiforov V, Bjørøy Ø, Kögel T. “Quantification of microplastics in fillet and organs of farmed salmon – a comparison of methods for detection and quantification- SALMODETECT, NORCE report 8-2020
- Haave M**, Bastesen E. «Foreløpige resultater av registreringsarbeid under prosjektet Ryddeaksjon Jærkysten» NORCE rapport 6-2020
- Gomiero, A, **Haave M**, Kögel T, Bjørøy Ø, Gjessing M, Berg LT, Horve E, Martins C, Olafsen T. (2020). Tracking of Plastic emissions from aquaculture industry. NORCE Report n. 4-2020
- Haave M**, & Gomiero A. «Mikroplastforurensning i laksefilet og oppdrettsmiljø - Screening av mikroplast i prosesser og ferdig produkt fra lakseoppdrett» NORCE rapport 2-2020
- Haave M**, Gomiero A, Olsen AB, Schönheit J, Nilsen H, Bruvik K. «Forekomst og effekter av mikroplast i dyr langs kysten», NORCE rapport 6-2019
- Haave M**. “Preliminary investigation of microplastic and rubber granules from artificial turfs”: Bergen Municipality. NORCE Report 03-2018. “Preliminary investigation of microplastics in stormwater drains in Bergen”. PI. Bergen municipality. Uni Research, SAM e-report 07-2017.

### Keynote and invited speaker

1. Invited Speaker at Forskningsdagene UNG, Sept. 2020
2. Invited keynote Speaker at the Keep Norway Beautiful-Conference 2020
3. Invited speaker at «Fagdag i Arendal- bærekraftig utvikling» Fylkesmannen i Agder.
4. Introduction to debate at the Main Stage at Arendal Kulturhus August 2019: «Bærekraft & business – tåler havet den belastningen vi nå utsetter det for?». Arendalsuka 20

### Seminars, popular scientific lectures, and public talks

Over 30 public talks and scientific contributions from 2017-2020, at various arenas, science seminars, leadership summits, the Research council’s “Science-days”, Student gatherings, and the Dale Oen youth conferences concerning plastic pollution and methodology. Project leader, face and voice of the Research Campaign for schools 2019 by the Norwegian Research Council (Forskningsskampanjen 2019) “The Hunt for Microplastics” <https://www.forskningsradet.no/om-forskningsradet/forskningskommunikasjon/forskningsskampanjen/>.

Over 30 media appearances in live and recorded on TV, radio, scientific and technical podcasts and newspapers. Scientific advisor to the production team and one of the front-figures in the plastic documentary “Plasthavet by Pandora Films (NRK, nov.2021).