

# Curriculum vitae 2020

## PERSONAL INFORMATION

Family name, First name:	Fernø, Martin A.		
Date of birth:	03.07.1981	*Sex:	Male
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	<a href="https://orcid.org/0000-0002-5745-0825">https://orcid.org/0000-0002-5745-0825</a> <a href="https://publons.com/researcher/2370779/martin-a-fern/">https://publons.com/researcher/2370779/martin-a-fern/</a> <a href="https://www.researchgate.net/profile/Martin_Ferno">https://www.researchgate.net/profile/Martin_Ferno</a> <a href="https://scholar.google.com/citations?user=9DVMuskAAAAJ&amp;hl=en&amp;oi=ao">https://scholar.google.com/citations?user=9DVMuskAAAAJ&amp;hl=en&amp;oi=ao</a>		
URL for personal website:	<a href="https://www.uib.no/personer/Martin.Fern%C3%B8">https://www.uib.no/personer/Martin.Fern%C3%B8</a>		

## EDUCATION

	Name of faculty/department, name of university/institution, country
2008	Ph.D., Dept. of Physics and Technology, University of Bergen
2005	Master, Dept. of Physics and Technology, University of Bergen

## POSITIONS (academic, business, industry, public sector, national or international organisations)

	Job title/name of employer/country
2017-	Professor, University of Bergen, Norway
2012-2017	Associate professor, University of Bergen, Norway
2013-2016	Scientific Advisor, Christian Michelsen Research, Norway
2009-2012	Post doctor, University of Bergen, Norway

## FELLOWSHIPS, AWARDS AND PRIZES

	Name of institution/country
2015	UiB Meltzer prize for young, excellent researcher

## MOBILITY Research stays abroad lasting more than three months

	Name of faculty/department/centre, name of university/institution/country
2017	Visiting Professor, Montanuniversität Leoben, Austria
2015	Invited Professor, Université Bordeaux 1, France
2010-2011	Visiting Scholar, Stanford University, USA

## PROJECT MANAGEMENT EXPERIENCE

Projects (17) funded by Research Council of Norway (RCN), international programs and industry

	Project and role, funding from
2021-2023	Optimizing CO <sub>2</sub> Foam EOR Mobility Control for Field Pilots, RCN <b>co-PI, 6.7 MNOK</b>
2019-2023	Multi-phase flow in fracture networks, Academia-agreement UiB-Equinor <b>co-PI, 5 MNOK</b>
2019-2023	Foam dynamics in the presence of oil during multiphase flow in porous rock, RCN <b>WP PI, 10 MNOK, <a href="#">LINK</a></b>
2019-2022	BioPore, Austria Research Promotion Agency <b>WP PI, 7.6 MNOK, <a href="#">LINK</a></b>
2019	CCUS activities, Academia-agreement UiB-Equinor (AUE) <b>PI, 0.25 MNOK</b>
2018-2021	Subsurface Carbonate CO <sub>2</sub> Storage and Security, RCN <b>PI, 7 MNOK, <a href="#">LINK</a></b>
2018-2019	Wetting in porous media, a multi-method approach to measurement, imaging and modelling, AUE <b>WP PI, 9 MNOK</b>

2017-2020	Wettability changes during polymer injection in unconsolidated sands, Equinor <b>PI, 1.6 MNOK,</b>
2017-2020	Nanoparticles to Stabilize CO <sub>2</sub> -foam for Efficient CCUS in Challenging Reservoirs, RCN <b>PI, 7 MNOK, <a href="#">LINK</a></b>
2016-2023	Petroleum Research School of Norway, RCN <b>WP PI, 23 MNOK, <a href="#">LINK</a></b>
2016-2021	Thermo-Mechanical Subsurface Energy Storage, RCN WP contributor, <b>12.4 MNOK, <a href="#">LINK</a></b>
2016-2019	CO <sub>2</sub> Storage from Lab to On-Shore Field Pilots: Using CO <sub>2</sub> -Foam for Mobility Control in CCUS, RCN <b>WP PI, 15.5 MNOK, <a href="#">LINK</a></b>
2015-2017	Nanoparticles to Stabilize CO <sub>2</sub> Foam in EOR, AkzoNobel <b>PI, 1.5 MNOK</b>
2014-2016	Pore Level Observations on CH <sub>4</sub> -Hydrate Growth and Natural Gas Production, Statoil <b>PI, 2.5 MNOK</b>
2012-2015	Depositional and Burial History of the Chalk, Joint Chalk Research 7 <b>WP PI, 0.4 MNOK</b>
2013	Flow Visualization at the Pore- and Core-scale, Pc and Wettability Effects during CO <sub>2</sub> Injection <b>PI, 0.3 MNOK, Curtin University</b>
2012-2013	Osmotic Gradients in Micromodels, Statoil <b>PI, 0.45 MNOK</b>

#### SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

	No. of	MSc/PhD/Postdocs	Name of university/country
2016-	2 (1 female)	Postdocs	University of Bergen, Norway
2011-	14 (5 females)	PhD	University of Bergen, Norway
2010-	70 (25 females)	Master's	University of Bergen, Norway

#### TEACHING ACTIVITIES

	Teaching position – topic, name of university/institution/country
2020-	Continued Learning Course: CCUS / University of Bergen / Norway
2020-	Continued Learning Course: UN SDG 7 / University of Bergen / Norway
2020-	Energy Transition / University of Bergen / Norway
2020-	Energy Physics and Technology / University of Bergen / Norway
2019-	Whole Value Chain CCS / University of Bergen / Norway
2011-2018	Experimental Methods in Reservoir Physics / University of Bergen / Norway
2011-	Fundamentals of Reservoir Physics / University of Bergen / Norway
2015-2019	Introduction to Petroleum and Process Technology / University of Bergen / Norway

#### ORGANISATION OF MEETINGS

	Role and name of event/number of participants/country
2020	Bergen CCUS seminar / 50 / Norway
2020	Initialization of USE regional CCUS cluster / 30 / Norway
2019	Young Researcher's Night Bergen / 50 / Norway
2019	Bergen CCUS seminar / 70 / Norway
2017	Kick-off Hydrogen Bergen / 30 / Norway
2016	IOR Norway conference (technical committee) / 300 / Norway
2016	PhD poster session IOR Norway / 24 / Norway
2016	Interpore minisymposium / 200 / USA
2010-2015	Annual Petroleum Research School of Norway Oneday Seminar / 70 / Norway
2013	Collaborative Symposium on CO <sub>2</sub> EOR / 150 / USA
2012	Student session at Transatlantic Science Week / 80 / USA

**INSTITUTIONAL RESPONSIBILITIES Member of a committee/graduate student advisor etc.**

	Name of university/institution/country
2015-	PhD opponent: <u>University of Stavanger</u> , Norway (2018, 2015, 2013); <u>University of New South Wales</u> , Australia (2018); <u>TU Delft</u> , The Netherlands (2017) <u>Utrecht University</u> , the Netherlands(2017); <u>Heriot-Watt University</u> (2016); <u>Norwegian University of Science and Technology</u> , Norway (2016);, <u>UK Imperial College London</u> , UK (2015)
2012-	Member PhD committee, University of Bergen (six times)
2015-	Member of <u>14</u> Evaluation Committees for Post doc / Researcher / PhD positions at University of Bergen and University of Stavanger
2015-	Member of <u>five</u> Evaluation Committees for Professor / Assoc. Prof. / Adj. prof. positions at University of Bergen and University of Stavanger
2012-	6 External Master thesis sensor University of Stavanger and NTNU

**COMMISSIONS OF TRUST IN ACADEMIC, PUBLIC OR PRIVATE ORGANISATIONS**

	Name of university/institution/country – and role
2018-	Advisory Board Bergen Knowledge Hub – Academia Europaea
2018-	Program Committee Energy at Faculty of Mathematics and Natural Sciences, UiB
2018	Reviewer Elsevier book proposal Fundamentals of Nanotechnology in the Oil&Gas Industry
2017	International expert reviewer – ETH Zurich Research Commission project proposal
2017-2019	Editorial board Springer book series, Petroleum Engineering
2016	International expert reviewer – ACS Petroleum Research Fund project proposal
2016	Appointed Member National Workgroup for Evaluation of Technology Sciences, RCN
2016-2018	Member Program Committee UiB Energy Lab
2015	Member of UiB-HiB Collaboration Workgroup
2015	Member of Faculty Workgroup: Energy Strategies for the Future, University of Bergen
2013-	Secretary for NorTex Petroleum Cluster
2010 -	Coordinator for Petroleum Research School of Norway; <a href="http://www.NFiP.no">www.NFiP.no</a>
2009-2012	Elected Member of Department Council, Dept. of Physics and Technology, UiB
2007-2008	Elected Member of Faculty Board, Faculty of Mathematics and Natural Sciences, UiB

**MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES / NETWORKS**

	Name of academies, scientific societies, networks
2015 -	Young Academy of Europe

**MAJOR COLLABORATIONS**

Name of university	Topic
Dept. Energy Resource Engineering, Stanford University, USA	CO <sub>2</sub> storage and CO <sub>2</sub> foam
Five Norwegian Universities (UiO, UiS, NTNU, UiT, UNIS)	Research school upstream petroleum
University of Wyoming, USA	Capillary-driven flow in porous media
University of Stavanger, Norway	Polymer gel injection for EOR
University of Bordeaux, France	Porous media foam dynamics

**TRACK RECORD**

The total number of publications during the career: 120 (55 journal papers; 62 conf. proc.; 3 book chapters)

- Average 1 full-text manuscript per month since 2014;
- **100+** different co-authors from **21** universities, research institutes and companies
- Published in **20** different journals (highest impact factor 12.3 – 2018)
- Reviewer for **24** international scientific journals