

Curriculum vitae with early achievements track record

* PERSONAL INFORMATION

*Family name, First name:	Riegler, Michael Alexander		
*Date of birth:	18.09.1984	*Sex:	male
*Nationality:	Austrian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	https://scholar.google.com/citations?user=Vd_ApDoAAAAJ&hl=en		
URL for personal website:	https://www.simula.no/people/michael		

* EDUCATION

	Name of faculty/department, name of university/institution, country
2017 (dissertation defended)	Dr. Scient (Ph.D.), Department of Informatics, University of Oslo, NO (submitted 12 months ahead of schedule)
2014	Magister (Mag.), Department of Informatics and Department of Economics, University of Klagenfurt, AT

CAREER BREAKS (if applicable)

	Reason
2017	Parental leave first child (6 month)
2020	Parental leave second child (5 month)

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

Current Position

	Job title/name of employer/country
2019-	Chief Research Scientist, SimulaMet - Simula Metropolitan Center for Digital Engineering, NO
2021-	Adjunct Associate Professor, University of Tromsø, NO

Previous positions held (list)

	Job title/name of employer/country
2019-2020	Adjunct Associate Professor, Kristiania University College, NO
2018-2019	Senior Research Scientist, SimulaMet- Simula Metropolitan Center for Digital Engineering, NO

2017-2018	Research Scientist, Simula Research Laboratory, NO
2014-2017	PhD Student, Simula Research Laboratory, NO

FELLOWSHIPS, AWARDS AND PRIZES (if applicable)

	Name of institution/country
2019	<i>One of the five ESHRE 2019 most promising researchers (ESRHE Young Ambassador), European Society of Human Reproduction and Embryology</i>
2018	<i>Researcher of the Year of Simula Research Laboratory, Simula Research Laboratory</i>
2018	<i>IEEE ISM 2018 Best paper award</i>
2018	<i>MediaEval 2018 Distinctive Mention award</i>
2018	<i>IEEE CBMS 2018 Best paper award</i>
2018	<i>One of four Rising Stars/Leaders in the multimedia research community, ACM SIGMM</i>
2017	<i>TEWI Hall of fame – Award from University of Klagenfurt for most successful alumni</i>
2014	<i>Award for best performing student 2012/2013 from the Faculty of Management and Economics at the University of Klagenfurt</i>
2014	<i>Scholarship from Klagenfurt University for extraordinary study achievements</i>
2013	<i>Scholarship from Klagenfurt University for extraordinary study achievements</i>
2013	<i>Excellence Scholarship Industrialists' association Carinthia (Exzellenzstipendium der Industriellenvereinigung Kärnten)</i>
2012	<i>Scholarship from Klagenfurt University for extraordinary study achievements</i>

PROJECT MANAGEMENT EXPERIENCE (if applicable)

Year	Project owner - Project - Role - Funder
2021-2026	<u>ILMA</u> - Interview training of child-welfare and law-enforcement professionals interviewing maltreated children supported via artificial avatars (R, RCN Fripro, 12MNOK)
2021-2023	<u>AIDirector</u> (PL, RCN <u>Innovation project, automatic sport video editing using AI, 4MNOK</u>)
2018-2020	<u>AutoCap</u> (R, RCN BIA, Automatic Anomaly Detection in Video Capsule Endoscopy, 12MNOK)
2019-2024	<u>ReproAI</u> (R, RCN FRIMEDBIO, improved assisted human reproduction technology using AI, 12MNOK)
2016	<u>DigSys</u> (R, RCN pre-project, Non-Invasive, Scalable Automatic Screening of the GI System, 500KNOK)
2014-2017	<u>EONS</u> (R, RCN FRINATEK, Efficient Execution of Large Workloads on Elastic Resources, 12MNOK)

2017-2020	<u>PRIVATON</u> (R, RCN, Protecting Shared Data with Privacy Automations, 12MNOK)
2018	<u>GastroEye</u> (R, Italian, GI video capsule analysis, 700KNOK)
2017-2019	<u>INTROMAT</u> (R, RCN Lighthouse, INTROducing Mental health through Adaptive Technology, 72MNOK)

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS (if applicable)

Year	Students	University/institution - Country	
2017-	11 (4 main and rest as co-supervisor)	PhDs (two finished as main supervisor, two as co-supervisor)	University of Oslo, Norway, OsloMet, Norway University of Tromsø, Norway University of Trento, Italy
2014-	58	Masters (38 successfully finished since 2015)	University of Oslo, Norway OsloMet, Norway University of Trento, Italy
2021-	1	Bachelor	University of Catalunya, Spain

TEACHING ACTIVITIES (if applicable)

Year	Course name, topic, name of university/institution/country/number of students
2022	Special topics in Multimedia systems: Synthetic data generation using generative adversarial neural networks, University of Klagenfurt, Austria, 50+
2018-2022	INF5050: Protocols and routing in the internet (machine learning part), University of Oslo, Norway, 50+
2019, 2020	PGR-103: Object Orientated Programming, Kristiania University College, Norway, 200+
2019	TEK305: Machine Learning, Kristiania University College, Norway, 30+
2013	623.908 Tutorial for Computer Games, University of Klagenfurt, Austria, 50+

COMMISSIONS OF TRUST IN ACADEMIC, PUBLIC OR PRIVATE ORGANISATIONS (if applicable)

	Name of university/institution/country – and role
2017-	Expert group member on artificial intelligence in health, The Norwegian Board of Technology, NO
2022	Research Proposal reviewer, Irish research council, IRL

Other commissions of trust - in business, organisations or public life

	Name of board/body/country – and role

2021-	SimulaMet Employee Representative board member, SimulaMet, NO
2019-	OsloMet AI lab board member, OsloMet, NO

MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES / NETWORKS (if applicable)

	Name of academies, scientific societies, networks
2019-	Member of the Academy of Norway, Akademiet for yngre forskere
2014-	ACM and IEEE member

MAJOR COLLABORATIONS (if applicable)

Name of university/ institution/ faculty/ department/ centre, company/ governmental or non-governmental organisation	Topic
University of Delft, Netherlands	Machine Learning and multi modal analysis
Dublin City University, Ireland	Machine Learning and Biomedical sensors
University of Klagenfurt, Austria	Distributed systems, content-based information retrieval
Bærum/Ulleval/Karolinska hospitals, Norway/Sweden	Medical technologies

Early achievements track record

My research interests include machine learning, artificial intelligence, and artificial intelligence for medicine. My experience covers machine learning with a focus on deep learning and system performance for medical applications and multimodal data analysis. **Total number of publications (journals, peer-review conferences): ~251, Number of citations: 4190, h-index: 33, i10-index: 96**

- Riegler MA, Stensen MH, Witczak O, Andersen JM, Hicks SA, Hammer HL, Delbarre E, Halvorsen P, Yazidi A, Holst N, Haugen TB. Artificial intelligence in the fertility clinic: status, pitfalls, and possibilities. *Human Reproduction*. 2021 Sep;36(9):2429-42.
- Hicks SA, Jha D, Thambawita V, Halvorsen P, Singstad BJ, Gaur S, Pettersen K, Goodwin M, Parasa S, de Lange T, Riegler MA. MedAI: Transparency in Medical Image Segmentation. *Nordic Machine Intelligence Journal*. 2021 Nov 1;1(1):1-4.
- Smedsrud PH, Thambawita V, Hicks SA, Gjestang H, Nedrejord OO, Næss E, Borgli H, Jha D, Berstad TJ, Eskeland SL, Lux M. Kvasir-Capsule, a video capsule endoscopy dataset. *Scientific Data*. 2021 May 27;8(1):1-0.
- Hicks SA, Isaksen JL, Thambawita V, Ghouse J, Ahlberg G, Linneberg A, Grarup N, Strümke I, Ellervik C, Olesen MS, Hansen T., Riegler MA. Explaining deep neural networks for knowledge discovery in electrocardiogram analysis. *Scientific reports*. 2021 May 26;11(1):1-1.
- Smedsrud PH, Thambawita V, Hicks SA, Gjestang H, Nedrejord OO, Næss E, Borgli H, Jha D, Berstad TJ, Eskeland SL, Lux M., Riegler MA. and Halvorsen P. Kvasir-Capsule, a video capsule endoscopy dataset. *Scientific Data*. 2021 May 27;8(1):1-0.

In addition to my scientific work, I am also active in research outreach, comparable and open science and open data (www.datasets.simula.no, <https://multimediaeval.github.io/>) In my career I helped organizing and hosting several scientific challenges, published several openly available datasets and contributed to the public dissemination of research through articles in newspapers internationally (US, Germany, Austria) and in Norway, etc. I also chaired the open software and dataset tracks at MMSys, MMM in the past and chairing the open software track of the ICMR 2022 conference.