

Nationality: New Zealander with permanent residency in Denmark, two children.

Education:

- *Ph.D. (July 1995).* University of Canterbury, Christchurch, New Zealand
- *B.Sc. (Hons.) (first class)(July 1990).* University of Canterbury, Christchurch, New Zealand

Employment history:

- *March 2018-present:* Deputy Head of Department (education), Department of Geosciences and Natural Resource Management, Copenhagen University, Denmark.
- *2014-present:* Professor of Geochemical, Mineralogical and Petrological Earth processes at the Department of Geosciences and Natural Resource Management, Copenhagen University, Denmark.
- *September 2003-2014:* Associate Professor in Igneous Petrology at the Department of Geography and Geology, Copenhagen University, Denmark.
- *July 2000-August 2003:* Manager of the Danish Lithosphere Centre Axiom multi-collector ICPMS laboratory (Copenhagen, Denmark).
- *1998-July 2000:* Post-doctoral researcher at Danish Lithosphere Centre, investigating geochemical consequences of magma interaction processes and crustal evolution (including a 6 month visit to the Department of Geology, University of Maryland, College Park, USA).
- *1996-1997:* Post-Doctoral research associate at the School of Earth Sciences, La Trobe University, Melbourne. Research focused on andesite petrogenesis (Mt. Ruapehu, NZ) and granitoid petrogenesis (Lachlan Fold Belt, Australia).

Research management and financing:

- 2021: Carlsberg Infrastructure Grant (3,374,264 DKK) for 21st Century mineral identification with micro-XRF
- 2019: DFF Research Grant 2 (6,185,380 DKK) for Assessing the periodicity and mechanisms of continental crustal growth.
- 2017: Grant of 56,600 DKK as a contribution for inviting plenary speakers to the conference “The Nordic Geological Winter Meeting 2018
- 2016: Collaborator on two Geocenter grants (Sam Weatherly- GEUS: Mushy Mineralising Systems – 585356DKK; Emily Pope – SNM: The Evolution of Earth’s Deep Water Cycle: Developing a Method for Evaluating δD of the Ancient Mantle – 900000 DKK).
- 2013: Grant of 60,000 dkk from Carlsberg Foundation towards ‘How accurate is geochronology? A test case at Ilimaussaq, SW Greenland’.
- 2013: Collaborator on two Geocenter grants (Lindström: The Triassic-Jurassic boundary: Impact of a Large Igneous Province on the geobiosphere and Andresen: Upernavik Glacier – a case study for improving predictions of future dynamic mass loss from Northwest Greenland)
- 2013: Associate investigator on grant of \$31700(NZD) from Otago University towards ‘Using mantle ‘fossils’ to elucidate the cause of Dunedin Volcano eruption’ (James Scott as PI)
- 2010: Grant of 2.2 million dkk from Danish Agency for Science, Innovation and Technology (FNU) towards ‘Igneous processes during the transition from subduction to crustal break-up, New Zealand.
- 2010: Grant of 150,000 dkk from Carlsberg Foundation towards ‘Microdrilling investigations of igneous processes.
- 2009: Geocenter grant (1.3million dkk) towards post-doctoral position developing Chemical dating of monazite using the microprobe.
- 2008-2010: Collaborator on Framework Grant (1.5 million dkk; shared with 3 others) from the Danish Agency for Science, Innovation and Technology (FNU) (P.M. Holm, Copenhagen as primary applicant)
- 2007-2008: Grant of 100,000dkk from Carlsberg Foundation towards geochronological and geochemical investigations of basement rocks on Bornholm, Denmark.
- 2006: Geocenter grant (1million dkk) with Troels Nielsen as P.I. towards Ph.D. investigating kimberlites in West Greenland.
- 2005-2007: Framework grant of 1.5 million dkk (shared with 3 others) from the Danish Agency for Science, Innovation and Technology (FNU) (C. Tegner, Århus as primary applicant).
- 2005: Grant of 100,000 dkk received from Carlsberg Foundation towards purchase of New-Wave Micromill sampling system.

Scientific focus areas

- Growth and origin of the continental crust, igneous petrology and geochemistry, volcanology, mineral chemistry, radiogenic isotope geology and geochronology, economic geology.

International relations and collaborations:

- Currently collaborating with the following on various projects: Åke Johansson and Martin Whitehouse (Swedish Museum of Natural History), Troels Nielsen (GEUS, Denmark), Quinten van der Meer (University of Iceland) and Emily Pope (Geological Museum, Copenhagen).

Research community service:

- Editor – Journal of Petrology since January 2019.
- Editor – Bulletin of the Geological Society of Denmark.
- Regular reviewer for high-level international petrology and geochemistry journals
- Regular examiner for Ph.D. theses in Scandinavia

Supervision of students

- Regular supervisor of students in their 3rd year Bachelor project, 33 completed Masters students.

Ph.D. students completed

- Marie Katrine Traun (2023) Geochemistry and magmatic petrology of silicic volcanism of the southern Andes

- Rikke Vestergaard (2023) Making and shaping of South Greenland: Assessing crustal growth and evolution of the Ketilidian Orogen through the lens of U-Pb-O-Hf isotopes in zircon.
 - Robin-Marie Bell (2016) Gold mineralization in the Nanulak region, S Greenland.
 - Anouk Borst (2016) REE mineralogy in the Ilimaussaq Intrusion, Greenland.
 - Quinten van der Meer (2015) Investigating sources of magmatism during the change from subduction to extension in Cretaceous New Zealand.
 - Llewellyn Pilbeam (2012) Identifying parental magmas of kimberlites, West Greenland (joint supervisor with Troels Nielsen GEUS).
 - Jane Chadwick (2007) (Trinity College, Dublin, supervised while a Marie Curie student visitor to DLC)
 - Anna Pietranik (2007) (University of Wroclaw, Poland, supervised while a Marie Curie student visitor to DLC)
- Postdoctoral supervision*
- Andreas Petersson: (ongoing) Crustal evolution in Scandinavia.
 - Alicia van Ham-Meert: (2019-2020) Sr isotopes as a tracer of archaeological wood.
 - Alexander Rodler: (2017-18) Sr isotopes as a tracer of archaeological wood
 - Barry Reno, IGG, 2010-2011 (Total Pb dating and REE analysis by microprobe)

Additional academic responsibilities:

- Regular member of evaluation committees for hiring of academic staff at IGN.
- Group leader for the research group in Geochemical, Petrological and Mineralogical processes at IGN 2016-2017.
- Member of organizing committee for the Nordic Geological Winter Meeting 2018, held at the Danish Technical University.
- Academic staff member responsible for operation and management of electron microprobe.
- Member of 'Studienævnet' (Study committee) and 'Undervisningsudvalg' (teaching committee) responsible for planning of teaching-related matters at Department of Geoscience and Natural Resource Management.
- Member of Work Environment and Safety Committee (2003-2013).
- Chair of special session at Goldschmidt 2004 conference, Copenhagen, entitled 'In situ investigations of properties and processes.
- Member of board of the Danish Geological Society (from 2014).
- Member of the Geoscience Society of New Zealand (from 1992).

Current Teaching Responsibilities:

- *Planet Earth*: First year introductory geology course, including field trip to Bornholm (7.5 ECTS), responsible for ca. 75% of teaching. Course coordinator (course given in Danish).
- *Geology and Geochemistry of the Lithosphere*: Second-third year course in petrology and geochemistry, including a field trip to Spain (7.5 ECTS), course coordinator, field trip organizer and responsible for 50% of teaching.
- *Structural Geology*: Second-third year course in basic mapping, map analysis and Structural geology. Course coordinator and responsible for 100% of teaching.
- *Integrating Fundamental Concepts in Geoscience*: Compulsory Masters course (15 ECTS), responsible for 25% of teaching (geochemistry and petrology of the continental crust). Course coordinator
- *Masters Field techniques course*: Joint organizer of 15 ECTS field course to Utah (run in 2006, 2010, 2014, 2016)

Publication summary:

93 published peer-reviewed articles, two bookchapters, H-Index = 36 (Web of Science 09-06-23).