

**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  $\delta D$  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 3<sup>rd</sup> 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).**