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 inIgneous Petrology at the Department of Geography and Geology, CopenhagenUniversity, Denmark.

· July 2000-August 2003: Manager of the DanishLithosphere Centre Axiom multi-collector ICPMS laboratory (Copenhagen, Denmark).

· 1998-July 2000: Post-doctoral researcher atDanish Lithosphere Centre, investigating geochemical consequences of magmainteraction processes and crustal evolution (including a 6 month visit to theDepartment of Geology, University of Maryland, College Park, USA).

· 1996-1997: Post-Doctoral researchassociate at the School of Earth Sciences, La Trobe University, Melbourne.Research focused on andesite petrogenesis (Mt. Ruapehu, NZ) and granitoidpetrogenesis (Lachlan Fold Belt, Australia).

Researchmanagement and financing:

· 2021: Carlsberg InfrastructureGrant (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 acontribution for inviting plenary speakers to the conference "The NordicGeological Winter Meeting 2018

 $\cdot$  2016: Collaboratoron two Geocenter grants (Sam Weatherly- GEUS: Mushy Mineralisering Systems – 585356DKK; Emily Pope – SNM: The Evolution of Earth's Deep Water Cycle: Developing aMethod for Evaluating  $\delta$ D of the Ancient Mantle – 900000 DKK).

 $\cdot$  2013: Grant of 60,000 dkk from Carlsberg Foundation towards 'How accurate is geochronology? A test case at Ilimaussaq, SW Greenland'.

· 2013: Collaborator on twoGeocenter grants (Lindström: The Triassic-Jurassic boundary: Impact of a Large Igneous Province on thegeobiosphere 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 OtagoUniversity towards 'Using mantle 'fossils' to elucidate the cause of DunedinVolcano 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 fromsubduction to crustal break-up, New Zealand.

· 2010: Grant of 150,000 dkkfrom Carlsberg Foundation towards 'Microdrilling investigations of igneousprocesses.

· 2009: Geocenter grant (1.3million dkk) towards post-doctoral position developing Chemical dating ofmonazite using the microprobe.

· 2008-2010: Collaborator on Framework Grant (1.5 million dkk; shared with 3 others) from the Danish Agencyfor Science, Innovation and Technology (FNU) (P.M. Holm, Copenhagen as primaryapplicant)

· 2007-2008: Grant of 100,000dkk from Carlsberg Foundation towards geochronological and geochemicalinvestigating of basement rocks on Bornholm, Denmark.

· 2006: Geocenter grant (1million dkk) with Troels Nielsen as P.I. towards Ph.D. investigatingkimberlites 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 dkkreceived from Carlsberg Foundation towards purchase of New-Wave Micromillsampling system.

## Scientific focus areas

· Growth and origin of the continental crust, igneouspetrology and geochemistry, volcanology, mineral chemistry, radiogenic isotopegeology and geochronology, economic geology.

International relations and collaborations:

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

Research community service:

- · Editor Journal ofPetrology since January 2019.
- · Editor Bulletin of the Geological Society of Denmark.
- $\cdot$  Regular reviewer for high-levelinternational petrology and geochemistry journals
- · Regular examiner forPh.D. theses in Scandinavia

## Supervision of students

• Regular supervisor of students in their 3rdyear Bachelor project, 33 completed Masters students.

Ph.D.students completed

· Marie Katrine Traun (2023) Geochemistryand magmatic petrology of silicic volcanism of the southern Andes

· Rikke Vestergaard (2023)Making and shaping of South Greenland: Assessing crustal growth and evolutionof the Ketilidian Orogen through the lens of U-Pb-O-Hf isotopes in zircon.

· Robin-Marie Bell (2016) Goldmineralization in the Nanulak region, S Greenland.

· Anouk Borst (2016) REEmineralogy in the Ilimaussaq Intrusion, Greenland.

 $\cdot$  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 supervisorwith Troels Nielsen GEUS).

· Jane Chadwick (2007) (TrinityCollege, Dublin, supervised while a Marie Curie student visitor to DLC)

· Anna Pietranik (2007)(University of Wroclaw, Poland, supervised while a Marie Curie student visitorto DLC)

## Postdoctoral supervision

- · Andreas Petersson: (ongoing) Crustal evolution in Scandinavia.
- · Alicia van Ham-Meert: (2019-2020) Sr isotopes as a tracer ofarchaeological wood.
- · Alexander Rodler: (2017-18) Sr isotopes as a tracer of archaeologicalwood
- · Barry Reno, IGG, 2010-2011 (Total Pb dating and REE analysis by microprobe)

Additional academic responsibilities:

· Regular member of evaluationcommittees for hiring of academic staff at IGN.

· Group leader for the researchgroup in Geochemical, Petrological and Mineralogical processes at IGN 2016-2017.

· Member of organizing committeefor the Nordic Geological Winter Meeting 2018, held at the Danish TechnicalUniversity.

· Academic staff memberresponsible 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 atGoldschmidt 2004 conference, Copenhagen, entitled 'In situ investigations ofproperties and processes.

· Member of board of the DanishGeological Society (from 2014).

· Member of the GeoscienceSociety of New Zealand (from 1992).

CurrentTeaching Responsibilities:

• Planet Earth: First year introductory geologycourse, including field trip to Bornholm (7.5 ECTS), responsible for ca. 75% ofteaching. Course coordinator (course given in Danish).

· Geology and Geochemistry of the Lithosphere: Second-third year course in petrology and geochemistry, including afield trip to Spain (7.5 ECTS), course coordinator, field trip organizer and responsible for 50% of teaching.

· Structural Geology: Second-third year course nbasic mapping, map analysis and tuctural geology. Course coordinator and responsible for 100% of teaching.

· Integrating FundamentalConcepts in Geoscience: Compulsory Masters course (15 ECTS), responsible for 25% of teaching(geochemistry and petrology of the continental crust). Course coordinator

· Masters Field techniquescourse: 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).