

CURRICULUM VITAE

1. Full name and date

Ojala, Antti Eero Kalevi
male
Date of CV: 25.09.2017

2. Date and place of birth, nationality, current residence

23.01.1972, Espoo, Finland
Finnish
Pihjalamarjantie 8 B, FI-02940, Espoo, Finland

3. Education and degrees awarded

PhD, Department of Geology, University of Turku, Quaternary geology, 23.08.2001
MSc, Department of Geology, University of Turku, Quaternary geology, 27.02.1997
Title of Docent in civil engineering, Tampere University of Technology, 23.5.2013
Title of Docent in environmental geology, Tampere University of Technology, 1.5.2004

4. Linguistic skills

Finnish – mother tongue
English – good
Swedish – average

5. Current position

Senior scientist, Geological Survey of Finland (GTK), since 2003
Lecturer at Tampere University of Technology
Lecturer at University of Helsinki

6. Previous work experience

2012/5-	Senior scientist – Geological Survey of Finland
2013-2015	Research Director – Department of Geosciences and Geography, University of Helsinki (2-3 months per year)
2011/9-2012/5	Professor – Department of Geosciences and Geography, University of Helsinki
2009-2011/9	Senior scientist – Geological Survey of Finland
2008-2009	Chief scientist – Geological Survey of Finland
2003-2008	Senior scientist – Geological Survey of Finland
2000-2003	Research scientist – Geological Survey of Finland
2000	Visiting Research Fellow – Department of Geoscience, University of Massachusetts
1997-2000	Postgraduate Fellowship – Quaternary Geology, University of Turku
1995-1996	Research associate – Geological Survey of Finland (total 8 months)

7. Research funding as well as leadership and supervision

Recent research grants

2012-2016, QUAL – Quantifying climate variability since Late-glacial in Southern Svalbard. Academy of Finland (grant #259343), (349 k€), ROLE: Principal investigator
2008-2011, CLIM-ECO – Climate variability in NW Europe during the last 4000 years and its ecological consequences. Academy of Finland (grant #121828), (251 k€), ROLE: Principal investigator

2003-2005, NUTRIBA – Nutrients from a large river basin - experimental and modelling approach (Baltic Sea Research Programme, BIREME) Academy of Finland (grant #121828), (30 k€), ROLE: consortium collaborator

Recent and ongoing research activities: (duration, name, funding)

- 2014-2017, PGSdyn – Appearance and dynamics of post-glacial faults in Finland, Posiva Oy
- 2015–, Glaciodynamic mapping of Quaternary deposits in Finland, Geological Survey of Finland
- 2006–, Classification, appearance and engineering-geological properties of clayey deposits in Uusimaa region (Finland), Geological Survey of Finland and cities of Espoo, Helsinki and Vantaa
- 2015-2017, Concentration gradients and speciation of Fe and S in lake sediments, (leader: D. Hammarlund)
- 2013-2015, SHORELINES – A database approach to classify and reconstruct ancient shoreline based on LiDAR DEM mapping, Geological Survey of Finland
- 2011-2015, Deposition and enrichment of As, Mn, Fe, and Al in the Vörå creek and estuary, northern Baltic Sea (leaders: M. Åström and C. Yu)
- 2011, Sediment stratigraphy and characteristic changes in sedimentary environment in lakes isolated from the Baltic Sea basin in the Olkiluoto area during post-glacial times, Posiva Oy
- 2007-2010, IPY-CRYO – The Quaternary record of environmental change on the ice-free terrain of Vestfonna glacier, the Academy of Finland (grant #1116509 to Prof. V.-P. Salonen)
- 2009-2010, Past glaciations in Fennoscandia, Posiva Oy
- 2003-2010, Arctic Research and Global Change, Geological Survey of Finland
- 2006, Regional Development of River Basins in the Olkiluoto-Pyhäjärvi Area, SW Finland, 2000 BP – 8000 AP, Posiva Oy
- 1999-2002, FIGARE – Modelling Past Global Change - Forecasting the Future, the Academy of Finland (grant to Prof. M. Saarnisto)
- 2001-2005, HOLIVAR – Holocene Climate Variability, European Science Foundation
- 2003-2004, ORIJÄRVI – The reflection of the Iron Age settlement history in the sediment deposits of Lake Orijärvi, Mikkeli, Finnish Cultural Foundation (leader: T. Alenius)
- 1999-2002, LAMSCAN – Detecting Rapid Environmental Changes by Studies of Annually Laminated (varved) Lake Sediments in Northern Scandinavia: Linkages to the North Atlantic Ocean Circulation, Nordic Arctic Research Programme (leader: I. Snowball)
- 1997-2000, VARVES – The Chronology, climatic implications and secular variations in the magnetic field of Finland during the Holocene based on annually laminated sediments, the Academy of Finland (grant to Prof. V.-P. Salonen)
- 2002-2005, SEAREG – Sea Level Change Affecting the Spatial Development in the Baltic Sea Region, EC Baltic Sea Region INTERREG III B (leader: P. Schmidt-Thome)
- 2002-2006, Organogenic deposits, Geological Survey of Finland
- 1999-2003, Carbon in Finnish lake sediments, Geological Survey of Finland
- 2002, VID PORE, Geological Survey of Finland
- 2002-2006, KallioINFO, National Technology Agency of Finland (TEKES) (leader: A. Kuivamäki)

8. Merits in teaching and pedagogical competence

Involvement in planning and implementation of courses at universities

Lecture series at University of Helsinki

- (i) Physical properties and dating of Quaternary sediments (2 credits), 2004-2007
- (ii) Quaternary dating methods (2 credits), since 2008
- (iii) Limnic sedimentary environments (2 credits), since 2008
- (iv) Environmental geology (4 credits), 2011
- (v) Surficial deposit in Finland (4 credits), 2012

Lecture series at Tampere University of Technology

- (i) RAK 22210, Unconsolidated deposits in Finland (5 credits), since 2012
- (ii) Climate change and environment, 2011-2015

Student supervision:

Lasse Korkalainen, MSc (2000), Department of Geology, University of Turku, Finland
Emilia Kosonen, MSc (2008), Department of Geology, University of Helsinki, Finland
Kati Laakso, MSc (2008), Department of Geology, University of Helsinki, Finland
Tõnn Tuvikene, MSc (2011), Department of Geography, University of Tartu, Estonia
Tiina Lepistö, MSc (2012), Department of Geology, University of Helsinki, Finland
Ayhan Türkmen, MSc (2014), Department of Geology, University of Helsinki, Finland
Susanne Åberg, MSc (2013), Department of Geology, University of Helsinki, Finland
Annika Åberg, MSc (2013), Department of Geology, University of Helsinki, Finland
Netta Jousi, MSc student (ongoing since 2016), Department of Geosciences and geography, University of Helsinki, Finland

Teija Alenius, PhD (2007), "*Environmental change and anthropogenic impact on lake sediments during the Holocene in the Finnish - Karelian inland area*", Dept. of Geology, University of Helsinki, Finland
Niko Putkinen, PhD (2011), "*History of the Eastern Flank of the Scandinavian Ice Sheet during the Weichselian Cold Stage*", Dept. of Geosciences, University of Oulu, Finland
Maarit Saresma, PhD student (ongoing since 2014), "*Classification and appearance of Engineering-Geological Properties of Fine-Grained Deposits in Uusimaa*", Aalto University, Finland
Emilia Kosonen, PhD student (ongoing since 2008), "*Reconstruction of runoff intensity and winter snowfall in southern Finland for the last 4000 years using mineral matter grain-size variability data sets from two varved lakes*", Dept. of geosciences and geography, University of Helsinki, Finland
Mimmi Oksman, PhD student (ongoing since 2012), "*Variability of sea surface temperatures and sea ice in Baffin Bay and their influence on the North Atlantic Ocean circulation during the Holocene*", Dept. of geosciences and geography, University of Helsinki, Finland

9. Other academic merits

Opponent and examination committee appointments:

2006, Member of the examination committee on Lena Rubensdotter's dissertation "*Alpine lake sediment archives and catchment geomorphology; causal relationships and implications for paleoenvironment reconstructions*" at the Department of Physical Geography, University of Stockholm, Sweden.
2011, Member of the examination committee on Tania Stanton's dissertation "*High temporal resolution reconstructions of Holocene palaeomagnetic directions and intensity: an assessment of geochronology, feature reliability and environmental bias*" at the Department Geology, Quaternary Sciences, Lund University, Sweden.
2017, Member of the examination committee on Dominique Maier's dissertation "*Combining limnology and paleolimnology: A refined understanding of environmental sediment signal formation in a varved lake*" at the Department of Ecology and Environmental Science, Umeå University, Sweden.

Professional memberships:

- Member of the steering committee of the IGBP PAGES – Varves Working Group (2009-2015)
- Chairman (2008-2015) and secretary (2003-2007) of the Finnish National Committee of the Quaternary Research (INQUA)
- Member of the executive committee of the Geological Society of Finland (2008-2009)
- Member of the national IPCC working group (2008-2014) appointed by the Finnish Ministry of the Environment
- Member of the national AMAP (Arctic Monitoring and Assessment Programme) working group (2007-2010)

Editorial appointments:

- Member of the Boreas administrative board since 2017
- Editor of the Bulletin of the Geological Society of Finland (<http://www.geologinenseura.fi/bulletin/>)
- Guest editor of the Bulletin of the Geological Society of Finland Special issue: Glacial dynamics and landforms in northern Europe: recent advances using LiDAR, 2017, *in progress*
- Guest editor of the GFF Special issue: Unravelling Scandinavian Geomorphology: The LiDAR revolution, vol 137, 2015
- Editor of the extended abstracts of the first IGBP PAGES – Varves Working Group, 2010
- Guest editor of the Geophysica Special issue: Proceeding of the Finnish National IPY Conference, vol 45, 2009
- Editor of the several Special Papers of Geological Survey of Finland
- Guest editor of the PAGES Newsletter vol. 11. nro 2-3/2003 (HOLIVAR issue)

Referee activities:

- Evaluator of numerous research grant applications for e.g. Research Council of Canada, Deutsche Forschungsgemeinschaft, Schweizerischen Nationalfonds (SNF), RANNIS – Icelandic Research Fund
- Reviewer of about 50 papers for international scientific and scholarly journals and book chapters

10. Scientific and societal impact of research

- A total number of publications in peer reviewed scientific and scholarly journals: 80
- More than 100 oral and/or poster presentation with abstracts in international workshops and conferences since 1998
- A number of popularized articles and non-refereed scientific articles since 1997
- Design and compilation of the “Ancient shoreline” and the “Post-glacial faults and earthquake-induced landforms” data bases for GTK’s spatial data products services (in 2012-2016)