

Date of birth: 19. July 1964 (Pyhäjärvi, OI.)

Nationality: Finnish

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Degrees/education: Studies at the University of Turku 1986-2000 ([kirjaamo@utu.fi](mailto:kirjaamo@utu.fi))

- Doctor of Philosophy, *Ecology* 18.2.2000
- Master of Science, *Systematic-ecological zoology* 19.5.1994
- Bachelor of Science, *Systematic-ecological zoology* 4.5.1990

Title of Docent, *Aquatic Ecology* (Univ. of Turku) 25.9.2003

*Fields of research and special fields of expertise:*

- Marine Biology & Aquatic Ecology, Biological Oceanography
- Ecology of the Baltic Sea environment, especially the Archipelago Sea
- Long-term climatic changes, especially climatic seawater salinity decrease and eutrophication processes in the Baltic Sea and their effects on marine/aquatic biodiversity
- Predictive statistical time series modelling (e.g. *ARIMA*, *Transfer Functions*), *Generalized Linear Mixed Models* (GLIMMIX) and *Statistical Downscaling* using environmental monitoring data series.

*Work history*

- The present position: *Associate Professor (2<sup>nd</sup> phase) of Archipelago Research* since 6/2019, located at the *Biodiversity Unit* under the *University of Turku (UTU) Strategy for 2018-2029* and *in the thematic collaboration of The Sea and Maritime Studies*.
- Former academic position: *Station manager at the Archipelago Research Institute (ARI)* at (UTU) from 9/2016 to 6/2019. Job description: comprehensive responsibility for the educational/research actions at the Seili research station of the University of Turku and cooperation/coordination of partners' research activities.
- Former administrative position: *Station manager* at ARI, UTU (2/2003 to 8/2016). Job description (inter alia): the head of the personnel and practical conducting, arrangement, and coordination of the Institute's research infrastructure within the University of Turku and between national and international cooperation partners' research activities.
- Senior researcher/ Coordinator of the project "*Comprehensive approach to marine environmental problems – Defining the essential relationships in the Archipelago Sea by multi-scale synthesis*" at the *Finnish Game and Fisheries Research Institute* (6/2002 to 2/2003).
- Several phases Senior researcher (on research leave) 2002–2013, Post Doc 2000–2001, and Postgraduate researcher 1997–1999 funded by, e.g., *Jenny and Antti Wihuri Foundation*, *EU BONUS+*, *Academy of Finland*, *Tekes*, and the *Tor and Maj Nessling Foundation*.

*Qualifications/training:*

Post-doc phase (selected achievements)

- *Post-doc researcher* at *Sir Alister Hardy Foundation for Ocean Science*, Plymouth, Devon, UK, 15.1–31.3.2001. The work focused on the interconnections of physical controlling mechanisms of the Baltic and the North Sea ecosystems and their regulative effects on pelagic biota by using combined time series in meteorological, hydrological and zooplankton data.
- SCA statistical course: "*Effective Forecasting and Time Series Data Mining using Expert System Approach*" in the *Instituto de Investigación Tecnológica, Universidad Pontificia Comillas*, Madrid, Spain, 11.12–16.12.2001. Special qualification period for modern methods to study Baltic Sea historical time series in meteorological, hydrological, and zooplankton data.

MSc and Doctoral phases (selected achievements)

- Expedition on *R/V Aranda* to the Gulf of Finland, northern Baltic Proper, Eastern Gotland Basin, Bornholm Basin, and Arkona Basin in the Baltic Sea, arranged by *Finnish Marine Research Institute*, 22.5–6.6.2000. The objective of the cruise was to monitor with practical methodical infrastructure the state of the macrozoobenthos communities in relation to hydrographical observations with special emphasis on the long-term changes of deep-water oxygen conditions.

- Qualification work on Baltic Sea historical time series in meteorological, hydrological, and zooplankton data) using the *Statistical Downscaling* method at the *Baltic Sea Research Institute*, Warnemünde, Germany 16.1–24.1.1999.
- Expedition to the Weddell Sea (Southern Ocean, Antarctica) 3.1–14.2.1993 as a Finnish Team member of the *Nordic Antarctic Research Programme* from 1992 to 1993 with members from Norway, Sweden, and Finland with duties, *inter alia*, to carry out Finnish Antarctic zooplankton sampling.
- Analysis of historical zooplankton samples from the *British Discovery Expeditions* from 1929 to 1939 (Southern Ocean, Antarctica) at the *Institute of Oceanographic Science*, Whitley, Surrey, UK, 1.11–28.11.1992.

*Language skills:* Finnish (native)  
English (fluent)  
Swedish (moderate)  
German (basic)

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RESEARCH FUNDING GRANTED (the past 17 years) (tot) 3 225 000 €

As a Principal Investigator or a deputy (PI)

Year	Financier	Purpose	Sum	Role
2023	Weisell Foundation	Secchi resampling at Italy	27 935 €	PI
2022	Academy of Finland	FINMARI infrastructure	136 065 €	PI
2022	Weisell Foundation	Nanoplastic research	92 924 €	PI
2022	Sakari Alhopuro Foundation (2 x)	Ecosystem comparison res.	99 486 €	PI
2021	Weisell Foundation	Nanoplastic research	91 731 €	PI
2021	European Maritime and Fisheries Fund	Smelt & Zander ecology	34 924 €	PI
2021	Sakari Alhopuro Foundation (2 x)	Ecosystem comparison res.	103 749 €	PI
2020	European Maritime and Fisheries Fund	Herring fishery research	28 730 €	PI
2019	Academy of Finland	FINMARI infrastructure	140 000 €	PI
2019	European Maritime and Fisheries Fund	Herring fishery research	37 500 €	PI
2019	EU Assemble+ 2019-2021	Transnational access	50 452 €	PI
2019	Turku University Foundation	DNA library for zooplankton	7 000 €	PI
2019	Southwest Finland ELY-Centre	Herring trap-nets (res.infra)	8 500 €	PI
2018	European Maritime and Fisheries Fund	Herring parasites research	25 000 €	PI
2018	Finnish Cultural Foundation	Herring time series infra	14 000 €	PI
2017	Academy of Finland	FINMARI infrastructure	152 692 €	PI
2017	Turku University Foundation	Microplastic research	4 000 €	PI
2015	Academy of Finland	FINMARI infrastructure	140 000 €	PI
2014	Finnish Cultural Foundation	Ixodes time series research	9 500 €	PI
2014	Donation by Sakari Alhopuro	Ixodes time series research	60 000 €	PI
2013	Jenny & Antti Wihuri Foundation	Ixodes time series research	14 000 €	PI
2013	Turku University Foundation	Herring time series research	2 858 €	PI
2012	Turku University Foundation	Ixodes time series research	3 000 €	PI
2012	Jenny & Antti Wihuri Foundation	Baltic time series research	20 000 €	PI
2011	Turku University Foundation	Herring time series research	2 760 €	PI
2009	EU BONUS+ / Academy of Finland	Time Series research	100 222 €	PI
2006	TEKES	Time Series research	74 000 €	PI

As a Project Partner (P) or Team member (T)

Year	Financier	Purpose	Sum	Role
2022	Sakari Alhopuro Foundation	Herring thyroxine research	60 000 €	T
2022	Academy of Finland	INA RI infrastructure	45 000 €	P
2021	The Finnish Cultural Foundation	Ixodes research	26 000 €	T
2020	Academy of Finland	INA RI infrastructure	54 000 €	P
2020	Ministry of Environment	Bothnian Sea loading model	31 224 €	P
2020	Sakari Alhopuro Foundation	Herring thyroxine research	60 000 €	T
2020	Sakari Alhopuro Foundation	Ixodes research	60 000 €	T
2020	Ministry of Environment	MAAMERI modelling	60 350 €	P
2020	Weisell Foundation	One Ocean expedition*	50 000 €	P
2016	Jane & Aatos Erkkö Foundation	Ixodes time series research	1 120 000 €	P

\* The expedition was finally cancelled due to COVID-19 pandemic and the granted funding was returned.

The more comprehensive list of funding granted is presented at my [ORCID profile](#).

PUBLICATIONS, TEACHING, RESEARCH SUPERVISIONS, OTHER MERITS

- Total number of publications 148 (*Google Scholar*) of which over 50 have gone through a scientific peer-review procedure. Presently 1700 citations in *Google Scholar* (H-index=22, i10-index=34), see: <https://scholar.google.fi/citations?user=XglboSIAAAAJ>.
  - Reviewer in 50 scientific publications during 1994–2023.
  - 25 years' experience of university-level lecturing, field course teaching and supervisions of various levels thesis (Doctoral, Master's and Bachelor's)
  - PhD-thesis supervisions: presently *Johannes Sahlstén* (marine ecology), *Petri Vahteri* (marine ecology), *Niko Tanski* (Ixodes research) and *Janne Rekilä* (microplastic research), latest graduated *Katja Mäkinen* (marine ecology; *dissertation 14.6.2019*), *Jani Sormunen* (Ixodes research; *dissertation 5.12.2018*).
  - Altogether some 20 MSc/Bachelor theses supervisions at UTU and *Turku University of Applied Science* (TUAS) and around 20 MSc/Bachelor theses review at UTU and ÅA.
  - *The President of the Republic of Finland* nominated me *Knight of the Order of the White Rose of Finland* (FWR K) on 6.12.2017 (applied by *Turku University* on the grounds of my academic merits).
  - *Military rank* lieutenant (reservist).
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