

Markku Kanninen

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PROFILE

Dr. Markku Kanninen is an expert in tropical forestry, climate change, forest ecology, and forest management. He has published over 350 publications, including over 100 internationally peer-reviewed scientific articles. He holds a Dr.Sc. degree from the University of Helsinki, Finland.

He has been involved in tropical forest research since 1979. Prior to his retirement, he was professor of Tropical Silviculture and director of the Viikki Tropical Resources Institute (VITRI), University of Helsinki, Department of Forest Sciences (2010-2020). He was the Director of the Environmental Services and Sustainable Use of Forests Program of Center for International Forestry Research (CIFOR) (2003-2010) and the Deputy Director General of Tropical Agriculture Research and Higher Education Centre CATIE (Costa Rica) (1996-2003).

Markku is a pioneer of research on climate change and natural resources. He was the Director of The Finnish Research Program on Climate Change (1990-1995), and he has been involved in science policy dialogue on forests and climate change since the early 1990's. He has been actively involved in the work of the Intergovernmental Panel on Climate Change (IPCC) since 1990. He was a Lead Author in The IPCC Special Report on 1.5 degrees (2018), and member of the 15-person Finnish Climate Panel (2011-2019).

Markku is a member of the Finnish Academy of Sciences and Letters. He has received the Nobel Peace Prize as a member of the IPCC in 2007.

PERSONAL

Date of Birth October 22, 1952, Jyväskylä, Finland

Citizenship Finnish

Degrees

28 March 1977 M.For.

05 May 1977 M.Sc. (Forestry)

09 December 1982 Lic.Sc. (Forestry)

28 April 1985 Dr.Sc. (Forestry)

All at the University of Helsinki

Languages

Finnish (mother tongue), English (excellent), Spanish (excellent), Bahasa Indonesia (good), Swedish (good), German (some), Portuguese (some)

Expertise

Tropical forestry, tropical forest ecosystems in the context of climate change adaptation and mitigation, carbon sequestration, management of tropical forests, plantations, and landscapes

CURRENT POSITION

01 November 2020 to present Professor emeritus, Viikki Tropical Resources Institute (VITRI), University of Helsinki, Department of Forest Sciences.

EMPLOYMENT HISTORY (past 35 years)

01 July 2010 31 October 2020	Professor of Tropical Silviculture & Director of Viikki Tropical Resources Institute (VITRI), University of Helsinki, Department of Forest Sciences.
01 March 2003- 31 December 2010	Director, Environmental Services and Sustainable Use of Forests Program - Center for International Forestry Research (CIFOR).
01 January 2002- 31 January, 2003	Deputy Director General (Vice Rector), CATIE-Tropical Agriculture Research and Higher Education Centre.
01 January 1996- 31 December, 2001	Director, Research Program, CATIE-Tropical Agriculture Research and Higher Education Centre.
01 January- 31 December 1995	Secretary General, Research Council on Environment and Natural Resources, Academy of Finland.
01 October 1993- 30 June 1994	Acting Professor of Tropical Silviculture, Department of Forest Ecology, University of Helsinki.
01 - 31 May 1991	Acting Professor of Silviculture and head of the department, Department of Forest Ecology, University of Helsinki.
01 March 1990- 31 December 1995	Project manager, The Finnish Research Program on Climate Change (SILMU).
01 October 1985- 28 February 1990	Research manager, Foundation for Research of Natural Resources in Finland.

OTHER PROFESSIONAL PRACTICE**Selected International activities (past 25 years+)**

2017-2018	IPCC, Lead Author (Chapter 5), Contributing Author (Chapter 3) of the IPCC Special Report on 1.5 degrees.
2013-2017	European Forests Institute (EFI), member of the Scientific Advisory Board.
2008-2017	UNFCCC Adaptation Fund Board, Member of the Board.
2011-2014	IUFRO: Co-Chair of the Task Force on Climate Change.
2011-2019	Finnish Climate Panel, Member.
2006-2010	Collaborative Partnership on Forests (CPF) - Joint Initiative on Science and Technology. Member of the Steering Committee.
2006	IPCC, Reviewer of 2006 IPCC Guidelines for National Greenhouse Gas Inventories.
2002-2003	IPCC, Lead Author (Chapter 4.3) of IPCC Good Practice Guidance for Land-Use, Land-Use Change and Forestry.
2001-2010	IUFRO: World Forests, Society and Environment (WFSE), Special Project. President, Scientific Advisory Council.
1994-1995	European Union/DG XII. Representative of Finland in the Programme Committee of the Research Programme on Environment and Climate.
1992-1993	Ministerial Conference on the Protection of Forests in Europe, co-chair of the working group on "Strategies for a process of long-term adaptation of forests of Europe to climate change".
1991-1995	IPCC, Representative of Finland in IPCC (Intergovernmental Panel on Climate Change), working group III.
1990-1993	Finnish representative in IPCC, Working Group III, Agriculture and Forestry subgroup.

Expert in development projects**Summary**

1982-2000 (short-term)	In total app. 36 months of field work as short-term expert in project evaluation, preparation and implementation in the following countries: Brazil, Mexico, Nepal, Nicaragua, Burkina Faso, Sierra Leone, SADD Region in Southern Africa (regional), Central America (regional).
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Details

- 1998-2000
(2 weeks/year) Nicaragua. Environmental Program in Nicaragua. Support to implementation of international convention on climate change and Montreal protocol. CATIE/Finnish Environment Institute. Consultant on climate change.
- 1995
(1 month) Nepal. Finnish International Development Agency (FINNIDA). Review and identification mission for co-operation in the forestry sector between Nepal and Finland. Team leader.
- 1995
(1 month) Spain, France, Portugal. European Forest Institute (EFI). Planning mission for co-operation in forest research in South-Western Europe. Expert (one-man team).
- 1995
(1 month) Nicaragua. Finnish International Development Agency (FINNIDA). Identification mission for co-operation in the environmental sector between Nicaragua and Finland. Team leader.
- 1994
(1 month) Nicaragua, Swedish International Development Authority (SIDA) and Swedish Agency for Research Co-operation with Developing Countries (SAREC). Identification mission for co-operation in research and undergraduate studies in renewable natural resources management between Nicaragua and Sweden. Team leader.
- 1990-1995 Mexico, Ministry of Agriculture and Hydraulic Resources/University of Helsinki, Department of Forest Mensuration and Management. Strengthening the Development and Planning of the Forestry Sector in Mexico. Expert in forest plantations.
Project field work: 05 - 18 February 1990; 25 - 30 May 1992 / 01 - 05 February 1993; 02 - 05 May 1993 / 21 - 31 October 1993; 1 - 10 May 1994 / 17 - 24 July 1994; 31 October - 11 November 1994
- 1990-1992 SADCC Region, Africa (Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, Swaziland, Tanzania, Zambia and Zimbabwe), Finnish International Development Agency (FINNIDA). Strengthening of forestry research and forestry research institutions in the SADCC Region. Member of the Project Core Team.
Project field work: 05 - 18 March 1992: Angola, Mozambique
- 1990
(1 month) Central America (Costa Rica, Nicaragua, Honduras, Guatemala), Finnish International Development Agency (FINNIDA). Appraisal of The Regional Forestry Programme for Central America. Head of the appraisal mission.
- 1989
(1 month) Central America (Costa Rica, Nicaragua, Honduras, Guatemala), Finnish International Development Agency (FINNIDA). Identification of possible development projects in forestry sector. Head of the project identification mission.
- 1987- 1989 Mexico, Ministry of Agriculture and Hydraulic Resources/University of Helsinki, Department of Forest Mensuration and Management. Strengthening the Development and Planning of the Forestry Sector in Mexico. Expert in silviculture and forest management.
Project field work: 31 July - 07 August 1989; 17 - 22 April 1989 / 28 January - 11 February 1989; 12 - 29 June 1988 / 17 - 28 January 1988; 23 August - 04 September 1987 / 24 March - 03 April 1987
- 1988 Nicaragua, Finnish International Development Agency (FINNIDA). Smallholder Cattle Development Study in Region V in Nicaragua. Team member, project identification mission.
Field missions: 03 April - 01 May 1988; 28 January- 19 February 1988
- 30 Nov. 1986-
08 Dec. 1986 Mexico, Ministry of Agriculture and Hydraulic Resources/University of Helsinki, Department of Forest Mensuration and Management. Strengthening the Development and Planning of the Forestry Sector in Mexico. Project identification mission.

1982-1985 Mexico, Ministry of Agriculture and Hydraulic Resources/University of Helsinki, Department of Forest Mensuration and Management. Joint Mexican-Finnish Program for the Development Plan of Forestry and Forest Industries in the State of Guerrero, Mexico. Plan for plantation management and silviculture. Expert in silviculture and forest management.
Field work: 27 February 1984 -11 March 1984 / 25 October - 19 November 1982

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Executive positions - International

UNCCD (United Nations Convention to Combat Desertification), Conference of the Parties COP 14.
Member of the Finnish Delegation, 2019
European Forest Institute (EFI), Member of the Scientific Advisory Board, 2013-2017
UNFCCC Adaptation Fund Board –Member of the Board, 2008-2017
www.forestsclimatechange.org - Member of the Editorial Advisory Board, 2014-2016
IUFRO: Co-Chair of the Task Force on Climate Change, 2011-2014
European Forest Institute (EFI) - Chair of the External Evaluation Panel, 2010-2011
Collaborative Partnership on Forests (CPF), Joint Initiative on Science and Technology, Member of the Steering Committee, 2006-2010
IUFRO: Member of the Extended Board, 2003-2007
IUFRO: World Forests, Society and Environment (WFSE), Special Project. Chair, Scientific Advisory Council, 2001-2010; Member of the Scientific Advisory Council, 2000-2001
IUFRO: The Role of Forests in Carbon Cycles, Sequestration and Storage Task Force. Member 2001-2005
IUFRO: Global Forest Information Service (GFIS) Task Force. Member of the Core Group, 1998-2003
IUFRO (International Union of Forest Research Organizations) World Congress 1995, Tampere, Finland. Member of the Congress Organizing Committee 1990-1994
Nordic Course on Forests and Forestry in Developing Countries: Member of the organizing committee, 1980-1983 and 1993.

Executive positions - Finland

University of Helsinki, Faculty of Agriculture and Forestry - Member of the Faculty Council, 2018-2021.
University of Helsinki, Faculty of Agriculture and Forestry - Director of the Master's Program in Forest Sciences, 2017-2019.
Finnish University Partnership for International Development – UniPID, Chairman 2012-2014.
Arctic Centre (Rovaniemi, Finland): Member of the International Scientific Advisory Committee, 1993-1995
The Ibero-American Foundation (Finland): Founding Member of the Board, 1992-1995
The Finnish National IGBP Committee: General Secretary, 1990-1995
Society of Development Studies (Finland): Member of the executive board, 1988-1990
Finnish Biological Society Vanamo (Finland): Member of the executive board, 1987-1990
The Finnish Society of Forest Science (Finland): Secretary, 1985-1990
Association of the Helsinki University Assistants (Finland): Member of the board, 1981-1984
Association of the Forestry Students (Finland): Chairman, 1974-1975.

Scientific editorial work

EarthScan Forest Library: Editor, 2012-2017
Silva Fennica: Member of the Editorial Board, 2004-2008
Forest Ecology and Management: Member of the Editorial Advisory Board, 2004-2007
Silva Fennica and Acta Forestalia Fennica: Editor-in-Chief, 1985-1990

Reviewer of scientific journals (2011-2020)

Agriculture, Ecosystems and Environment; Agroforestry Systems; Ambio; Carbon Balance and Management; Climate Policy; Forest Ecology and Management; Current Opinion in Environmental Sustainability; Forests; Journal of Geophysical Research; Mitigation and Adaptation Strategies for Global Change; Nature Communications; Plos One.

Membership in governmental committees and policy-making bodies in Finland/Europe

Ministry of Agriculture and Forestry: Committee on international natural resources policy, member, 2019-

The Finnish Climate Panel: member, 2011-2019

Ministry of Agriculture and Forestry: Committee on forest research policy, member, 1994-1995.

Ministry of Agriculture and Forestry: Committee on international forestry and forest policy, member, 1993-1995.

Intergovernmental Negotiating Committee for a Framework Convention on Climate Change (INC): Member of the delegation of Finland, 1991-1995.

Ministry of Environment: Permanent expert of "The CO₂-committee" and "The climate committee", 1991-1995.

Finnish National Committee for UNCED: Member of the sub-committee I, 1991-1992.

Thesis supervision**Doctoral students (total 13)**University of Helsinki (12)

- 2020 Raúl Córdova: "Climate change adaptation in smallholder agroforestry systems in the Northern Andes of Ecuador: A case study in the Indigenous Territory of Kayambi People". Main supervisor.
- 2020 Anne Arvola: "Key factors in the enabling environment for smallholder tree growing – experiences from the Global South". Main supervisor.
- 2019 Arttu Malkamäki: "On the human impacts and governance of large-scale tree plantations". Supervisor (member of the supervisory committee).
- 2017 Mustafa Fahmi: "Climate, trees and agricultural practices: Implications for food security in the semi-arid zone of Sudan". Main supervisor.
- 2016 Yitagesu Tekle Tegegne: "FLEGT and REDD+ synergies and impacts in the Congo Basin: lessons for global forest governance". Main supervisor.
- 2016 Johanna Eklund: "Setting priorities for conservation: protected area effectiveness, management, and quality of governance". Supervisor (member of the supervisory committee).
- 2016 Daniel Etongo Bau: "Deforestation and forest degradation in Southern Burkina Faso: Understanding the drivers of change and options for revegetation". Main supervisor.
- 2013 Maarit Kallio: "Factors influencing farmers' tree planting and management activity in four case studies in Indonesia". Main supervisor.
- 2013 Mesele Tesemma Negash: "Indigenous agroforestry systems of the south-eastern Rift Valley escarpment, Ethiopia: Their biodiversity, carbon stocks, and litterfall". Supervisor.
- 2013 Salla Rantala: "The winding road from exclusion to ownership: Governance and social outcomes in contemporary forest conservation in northeastern Tanzania". Main supervisor.
- 2011 Fobissie Blese Kalame: "Forest governance and climate change adaptation: Case studies of four African countries". Main supervisor.
- 2005 Diego Pérez: "Stand growth scenarios for *Tectona grandis* plantations in Costa Rica". Main supervisor.

CATIE-Centro Agronómico de Investigación y Enseñanza, Costa Rica (1)

- 2000 Lucio Pedroni: "Estimation and Use of Modified Prior Probabilities for Digital Classification Improvement of Tropical Forests". Principal supervisor.

M.Sc. students (total 38)University of Helsinki (23)

- 2020 Anna Jaurimaa: How to address and assess climate change adaptation? Results-based climate change adaptation and the role of trees and forests in projects funded by Adaptation Fund. Supervisor.
- 2020 Antti Simppula: Village-level changes in landscapes, land use and rural livelihoods: A case study of three villages in Nambak district, Lao PDR. Co-supervisor.

- 2019 Christa Vilkki: Tropical rainforest restoration on Imperata grasslands under fast-growing plantations in South Kalimantan, Indonesia. Supervisor.
- 2019 Eedla Makkonen: Preliminary Assessment of Socioeconomic Impacts and Plantation Performance of Stora Enso's Village Program in Southern Laos. Supervisor.
- 2018 Antti Luoma: Ecosystem services in UPM's intensively managed plantation landscapes in Uruguay. Supervisor.
- 2017 Cary Miller: "Qualitative Assessment of Key Factors Shaping the Development of Community Forestry Enterprises in Mexico". Supervisor.
- 2017 Shingo Masuda: "Indonesian wooden furniture value chain and impacts of EU policies". Supervisor.
- 2016 Juho Penttilä: "Influence of smallholder woodlot management on tree growth and quality. Case study of pine plantations in Iringa and Njombe regions, Tanzania". Supervisor.
- 2016 Elina Hirvonen: "Ecosystem Services from Industrial Eucalypt Plantation Landscapes: Case of Stakeholders of UPM Uruguay". Supervisor.
- 2015 Tabi Agbor, Ferdinand: "Sustainability of community forest management in Burkina Faso: The Case of CAF Cassou". Supervisor.
- 2015 Gordillo Ruesta, Harold: "What drives land use – land cover change leading to deforestation? A study case of the Tambopata Natural Reserve Buffer Zone, Madre de Dios, Peru". Supervisor.
- 2015 Malkamäki, Arttu: "Governance of global commodity chains: Case of Uruguayan beekeeping and sustainable livelihoods". Co-supervisor.
- 2014 Pienimäki, Arttu: "Carbon stocks for six different land use classes in Niassa province, Mozambique". Supervisor.
- 2014 Juntheikki, Joni: "Estimation of eucalyptus forest plantations carbon sequestration potential in Uruguay with the CO2fix model". Supervisor.
- 2014 Harjuniemi, Aliisa: "Effects of Intensive management in the Restoration of Northeastern Atlantic Forest in Brazil; Survival, Growth and Carbon Sequestered 8 Years after Planting". Co-supervisor.
- 2013 Matleena Vuola: "Regional markets for non-timber forest products in eastern Brazilian Amazon". Supervisor.
- 2013 Gideon Shu: "Forest degradation mapping and carbon assessment in South Cameroon using remote sensing data and field measurements". Supervisor.
- 2012 Bosaze Rufinga Shange: "Community forest management and policy implications for the Biosphere Reserve of Luki, Democratic Republic of Congo". Supervisor.
- 2012 Lari Saukko: "Improving rooting of Eucalyptus cuttings by controlling the stock plant temperature in Montes del Plata nursery, Uruguay". Supervisor.
- 2011 Eveliina Varis: "Stand growth and management scenarios for *Paraserianthes falcataria* smallholder plantations in Indonesia". Supervisor.
- 2003 Pekka Puolakka: "Profitability of Costa Rican teak plantations. A case study on the management and maintenance of two existing tree plantation enterprises". Supervisor.
- 2002 Anne Arvola: "Growth and management of *Terminalia Amazonia* in small-farm plantations in southern Costa Rica". Supervisor.
- 2000 Kaisa Korhonen: "The silvicultural state of planted forests in southern Costa Rica as affected by farmers' motivation for reforestation: Evaluation of forest incentive programs". Supervisor.
- CATIE-Centro Agronómico de Investigación y Enseñanza, Costa Rica (14)
- 2006 Manuel Serrano: "Evaluación y planificación del manejo forestal sostenible en escala de paisaje en Hojancha, Costa Rica". Member of the committee.
- 2006 Álvaro Vallejo "Maia - software para el monitoreo de proyectos de remoción de carbono bajo el Mecanismo para un Desarrollo Limpio del Protocolo de Kyoto". Member of the committee.
- 2002 Edgar Bámaca Figueroa "Dinámica del carbono en los residuos forestales producidos durante el aprovechamiento y el aserrio en la Reserva de Biosfera Maya, Peten, Guatemala". Principal supervisor.

- 2002 William Arreaga “Cuantificación del carbono almacenado en bosques con manejo forestal sostenible y aprovechamiento tradicional, Reserva de Biosfera Maya, Peten, Guatemala”. Principal supervisor.
- 2001 Chelsia Morais “Almacenamiento de carbono en diferentes fases sucesionales del bosque secundario”. Principal supervisor.
- 2000 Ana Mollinedo Pastrana: “Beneficios sociales y rentabilidad del manejo forestal comunitario en una cooperativa y una concesión en la reserva de la Biosfera Maya, Peten, Guatemala”. Principal supervisor.
- 1999 Milena Segura Madrigal: “Valoración económica y determinación del servicio de fijación y almacenamiento de carbono en bosques naturales protegidos del Área de Conservación Cordillera Volcánica”. Principal supervisor.
- 1999 Harland Rivas Cooper: “Estudio comparativo del impacto del Huracán Mitch en rodales intervenidos y no intervenidos en tres bosques comunales, en el Norte de Honduras”. Principal supervisor.
- 1998 Luis Diego Pérez Cordero: “Relación de la composición de la biomasa de copa con el crecimiento y productividad de *Tectona grandis*, *Bombacopsis quinata* y *Gmelina arborea* y evaluación de costos de su manejo intensivo en Costa Rica”. Member of the committee.
- 1998 Bruno Solíz Saucedo: “Valoración económica del almacenamiento y fijación de carbono en el bosque Chiquitano de Lomerio, en Santa Cruz de la Sierra, Bolivia”. Member of the committee.
- 1998 Alejandro López Musalem: “El aporte de la raíces finas y el suelo al secuestro de CO₂ por un sistema silvopastoril con laurel y pasto guinea en el trópico húmedo de Costa Rica”. Member of the committee.
- 1997 Jorge Oviedo Machuca: “Determinación del turno óptimo financiero y ambiental para cinco especies en plantaciones forestales de Costa Rica”. Member of the committee.
- 1997 Liseth Rodríguez: “Implicaciones económicas del almacenamiento del CO₂ almacenado en un bosque húmedo tropical en Costa Rica, bajo diferentes estrategias de intervención”. Member of the committee.
- 1997 Juan Carlos Godoy: “Análisis económico y financiero de los incentivos a la reforestación otorgados por el gobierno de Costa Rica”. Member of the committee.
- University of Wageningen, the Netherlands (1)
- 2005 Arjan de Bruijn: “Carbon dynamics simulation in Malinau Research forest”. Supervisor.

Thesis examination/review

Doctoral thesis external examiner/opponent in doctoral dissertation (total 5)

- 2018 AgroParisTech (France) & University of Copenhagen (Denmark) (joint degree), external examiner: Ph.D. thesis by Andes Rozak “Towards better estimates of carbon stocks in Bornean logged-over Dipterocarp forests”.
- 2014 University of Melbourne (Australia), external examiner: Ph.D. thesis by Thu Ba Thi Huynh “Can REDD+ Turn Rainbow? REDD+ and Climate Change Adaptation Policies in Vietnam”.
- 2012 University of Eastern Finland, Faculty of Science and Forestry, opponent (External examiner) appointed by the faculty: Doctoral dissertation of M.Sc. Lawrence Damnyag “Valuation of ecosystem services for assessment of cost of deforestation, and analysis of its drivers with implications for sustainable forest management in Ghana”.
- 2006 University of Turku, Faculty of Natural Sciences, opponent (External examiner) appointed by the faculty: Doctoral dissertation of M.Sc. Antti Marjokorpi “Biodiversity management in fast-growing tree plantations: a case study from West Kalimantan, Indonesia”.
- 1990 University of Joensuu, Faculty of Forestry: opponent (External examiner) appointed by the faculty: Doctoral dissertation (Forestry) of Lic.Sc. Heikki Hänninen. “Modelling bud dormancy release in trees from cool and temperate regions”.

Doctoral thesis pre-examiner (15)

- 2019 University of Eastern Finland, Faculty of Science and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation of M.Sc. Bishnu Devkota "From participation to responsiveness: The changing priorities of community forestry governance in Nepal's Terai".
- 2016 University of Helsinki, Faculty of Biological and Environmental Sciences, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation of M.Sc. Johanna Eklund "Setting priorities for conservation: protected area effectiveness, management and quality of governance".
- 2011 University of Helsinki, Faculty Biological and Environmental Sciences, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation of M.Sc. Mari Bieri "Ecological sustainability and FSC certification in Honduran community forestry".
- 2010 University of Turku, Faculty of Natural Sciences, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation of M.Sc. Petteri Vihervaara "Impact of the globalizing forest industry on ecosystem services: Corporate responsibility and the sustainable management of coupled human-environment systems".
- 2007 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Teija Reyes. "Agroforestry systems for sustainable livelihoods and improved land management in the East Usambara Mountains, Tanzania".
- 2002 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Eshetu Yirdaw. "Restoration of the native woody-species diversity, using plantation species as foster trees, in the degraded highlands of Ethiopia".
- 2000 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Riikka Otsamo. "Integration of indigenous tree species into fast-growing forest plantations on *Imperata* grasslands in Indonesia – Silvicultural solutions and their ecological and practical implications".
- 1999 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Chungyang Li. "Drought adaptation and genetic diversity in *Eucalyptus microtheca*".
- 1996 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Pekka Nöjd. "The Effects of Emissions from a Nickel-Copper Smelter in Monchegorsk, northwestern Russia, on the Radial Growth of Scots Pine".
- 1996 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Abdelrasul Fadelmula Mustafa. "Regeneration of Acacia seyal forests on the dryland of the Sudan clay plain".
- 1996 University of Joensuu, Faculty of Natural Sciences, pre-examiner (Reviewer): Doctoral dissertation (Biology) of L.Sc. Markus Lindholm. "Growth response in forest-limit pine to climatic factors and reconstruction of summer temperatures from ring-width chronologies of *Pinus sylvestris* L. in Northern Fennoscandia".
- 1995 University of Helsinki, Faculty of Agriculture and Forestry, pre-examiner (Reviewer): Doctoral dissertation (Forestry) of M.Sc. Pekka Nygren. "Carbon and nitrogen dynamics in *Erythrina poeppigiana* (*Leguminosae: Phaseoleae*) trees managed by periodic prunings".
- 1993 University of Joensuu, Faculty of Forestry: pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of M.Sc. Tapani Repo. "Impedance spectroscopy and temperature acclimation of forest trees".
- 1992 University of Helsinki, Faculty of Agriculture and Forestry: pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of Lic.For. Eero Nikinmaa. "Analysis of Scots Pine growth: formation of structure from functional considerations".
- 1987 University of Helsinki, Faculty of Agriculture and Forestry: pre-examiner (Reviewer) appointed by the faculty: Doctoral dissertation (Forestry) of Lic.Sc. (Tech.) Annikki Mäkelä. "Models of pine stand development: an eco-physiological systems analysis".

Doctoral thesis – Chair/member of the Grading committee (5)

- 2020 University of Helsinki, Faculty of Agriculture and Forestry, chair of the grading committee appointed by the faculty: Doctoral dissertation of M.Sc. Anne Arvola “Key factors in the enabling environment for smallholder tree growing – experiences from the Global South”.
- 2020 University of Helsinki, Faculty of Agriculture and Forestry, chair of the grading committee appointed by the faculty: Doctoral dissertation of M.Sc. Badal Hassan “Trees for sustainable livelihoods in the Horn of Africa: Studies on aromatic resins and other non-wood forest products in Somalia and Kenya”.
- 2019 University of Helsinki, Faculty of Agriculture and Forestry, chair of the grading committee appointed by the faculty: Doctoral dissertation of M.Sc. Mawa Karambiri “Where is local democracy?”.
- 2019 University of Helsinki, Faculty of Agriculture and Forestry, chair of the grading committee appointed by the faculty: Doctoral dissertation of M.Sc. Enass Salih “Ethnobotany, phytochemistry and antimicrobial activity of Combretum, Terminalia and Anogeissus species (Combretaceae) growing naturally in Sudan”.
- 2018 University of Helsinki, Faculty of Agriculture and Forestry, member of the grading committee appointed by the faculty: Doctoral dissertation of M.Sc. Mila Sell “Innovation Capacity and Women Empowerment. Identifying constraints and pathways toward sustainability, improved productivity and livelihoods of small-scale farmers in Africa”.

Doctoral thesis – Chair/member of the Thesis committee (1)

- 2020 University of Helsinki, Faculty of Agriculture and Forestry, member of the Thesis committee (follow-up group) appointed by the faculty: Doctoral student Mariaselvam Geethanjali.

Reviewer of Lic. Sc. and M.Sc. theses (35)

- 2020 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Anna Jaurimaa.
- 2020 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Antti Simppula.
- 2019 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Eedla Makkonen.
- 2018 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Noora Simola
- 2018 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Antti Luoma
- 2017 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Harri Onali
- 2017 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Gary Miller
- 2017 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Shingo Masuda
- 2016 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Elina Hirvonen.
- 2016 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Juho Penttilä.
- 2015 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Harold Gordillo Ruesta.
- 2015 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Tabi Agbor.
- 2015 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Arttu Malkamäki.
- 2014 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Arttu Pienimäki.

- 2014 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Joni Juntheikki.
- 2014 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Aliisa Harjuniemi.
- 2013 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Heidi Teittinen.
- 2013 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Matleena Vuola
- 2013 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Gideon Shu.
- 2012 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Mr. Lari Saukko.
- 2011 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Eveliina Varis.
- 2010 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of Ms. Nora Sylvander.
- 2003 University of Helsinki, Faculty of Agriculture and Forestry, examiner: L. Sc. (For.) thesis of Mr. Kari Leppänen.
- 2000 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. thesis of Ms. Nina Saalismaa.
- 1996 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. (For.) thesis of M.Sc. Paula Kankkunen.
- 1994 University of Helsinki, Faculty of Agriculture and Forestry, examiner: L. Sc. (For.) thesis of M.Sc. Kari Tuomela.
- 1994 University of Turku, Faculty of Philosophy, examiner: L. Sc. thesis of M. Sc. Maarit Puhakka.
- 1994 University of Joensuu, Faculty of Forestry, examiner: L. Sc. (For.) thesis of M. Sc. Timo Karjalainen.
- 1994 University of Helsinki, Faculty of Agriculture and Forestry, examiner: M. Sc. thesis of Mr. Jarkko Koskela.
- 1994 University of Helsinki, Faculty of Agriculture and Forestry, examiner: L. Sc. (For.) thesis of M.Sc. Vesa Kaarakka.
- 1993 University of Joensuu, Faculty of Forestry, examiner: M. Sc. thesis of Mr. Markku Kähkönen.
- 1990 University of Helsinki, Faculty of Agriculture and Forestry: examiner: L. Sc. (For.) thesis of M.Sc. Pasi Miettinen.
- 1990 University of Joensuu, Faculty of Forestry: examiner: L. Sc. (For.) thesis of Ms. Anneli Jalkanen.
- 1988 University of Helsinki, Faculty of Agriculture and Forestry: examiner: M. Sc. thesis of Mr. Jorma Peltonen.
- 1982 University of Helsinki, Faculty of Agriculture and Forestry: examiner: M. Sc. thesis of Mr. Gerardo Mery.

Summer Schools/Short courses organized

University of Helsinki Summer School: Coordinator of the Summer School “Designing Sustainable Forest Landscapes” (Annually 2011-2018). Approximately 20-25 participants from various countries.

CATIE: Coordinator of the “Latin-American training course on CDM (Clean Development Mechanism) in Forestry and Energy Sectors”. (One course per year, 1999-2002) with approximately 20-25 participants from different Latin-American countries.

Member of selection committee for professor positions

- 2018 University of Helsinki, Faculty of Arts – Assistant Professor /Associate Professor/ Professor position in African studies.
- 2018 University of Helsinki, Faculties of Science and Agriculture and Forestry – Assistant Professor /Associate Professor/ Professor position in Global atmosphere-Earth surface feedbacks.

Referee for adjunct professor (“docent”) positions

- 2007 University of Helsinki, Faculty of Agriculture and Forestry – tropical silviculture: Dr. Mohammed Eldafl.
- 2001 University of Helsinki, Faculty of Agriculture and Forestry – environmental conservation in developing countries: Dr. Anja Nygren.
- 1992 University of Helsinki, Faculty of Agriculture and Forestry – forest ecology: Dr. Pekka Kauppi.

Other qualifications

- 2004- Finnish Academy of Sciences and Letters. Invited as a Foreign Member.
- 2003- Centro Agronómico de Investigación y Enseñanza (CATIE). Affiliated Faculty Member.
- 2002-2005 University of Idaho, School of Natural Resources. Affiliated Faculty Member.
- 2001 CIFOR-Center for International Forestry Research. Short-listed (among 4 out of 80 applicants) for the position of Director General of CIFOR.
- 1996-2003 Centro Agronómico de Investigación y Enseñanza (CATIE). Professor and Member of the Faculty.
- 18 Jan. 1988 University of Helsinki, Faculty of Agriculture and Forestry: Adjunct Professor (“dosentti” in Finnish) of silviculture.
- 03 Dec. 1987 University of Helsinki, Faculty of Agriculture and Forestry: Qualified for the assistant professorship of silviculture.
- 24 Jan. 1985 University of Helsinki, Faculty of Agriculture and Forestry: Approval of doctoral dissertation (grade: magna cum laude approbatur).
- 14 Dec. 1984 University of Helsinki, Faculty of Agriculture and Forestry: Public defense of doctoral dissertation.

Honors and prizes

- 2018 Knight First Class of the Order of the White Rose of Finland (Suomen Valkoisen Ruusun I luokan ritarimerkki), The President of the Republic of Finland.
- 2018 Influencer of the Year (Vuoden vaikuttaja) 2018, University of Helsinki, Faculty of Agriculture and Forestry.
- 2007 Nobel Peace Prize – a as member of the IPCC, Intergovernmental Panel on Climate Change.
- 2001 The Finnish Society of Forest Science: Achievement Award (“Suomen Metsätieteellisen Seuran Mitali”).

PUBLICATIONS

Google Scholar: h-index 48, i10-index 144, 12524 citations (January 2022).

In total, 382 publications:

Scientific publications

Original papers in refereed scientific journals	109
Books and monographs	35
Chapters in books	62
Papers in conference proceedings	59
	265

Other publications

Papers in technical (trade) journals	38
Development or research reports	40
Articles in periodicals, magazines and newspapers	22
Textbooks, manuals & academic reports	11
Computer software & on-line courses and materials	6
	117

Complete list of publications:

<https://blogs.helsinki.fi/kanninen/files/2022/01/Kanninen-List-of-Publications-2022.pdf>

Google Scholar:

<https://scholar.google.com/citations?user=4kKnU0oAAAAJ&hl=en>

(January 2022)