Curriculum Vitae

Csilla Farkas

NIBIO

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Current position

2009 - date senior research scientist, Division of Environment and Natural Resources,

Norwegian Institute for Bioeconomy Research (NIBIO), As, Norway

Previous positions

2002 - 2009	senior research scientist, Department of Soil Physics, Research Institute for Soil

Sciences and Agrochemistry, Hungarian Academy of Sciences

1993 - 2001 research scientist, Department of Soil Physics, Research Institute for Soil

Sciences and Agrochemistry, Hungarian Academy of Sciences (HAS)

Education

5/1994; 9/1997

2002 I IID III Lai tii Scicilees (lescaleii alea, soii liyalology,	2002	PhD in Earth Sciences	(research area: soil hydrology)
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Faculty of Science, Eötvös Loránd University, Budapest, Hungary

1991 MSc in Hydrology, Faculty of Hydrology

Russian State Hydrometeorological University, St. Petersburg, Russia

Research stay, Institute of Hydrology, Slovak Academy of Sciences, Bratislava,

Relevant work experience

8/2011	Visiting scientist, Institute of Soil Science and Agrochemistry of the Siberian
	Branch of the Russian Academy of Sciences, Novosibirsk, Russia
2004 - 2007	János Bolyai Individual Post-Doctoral Research Grant, Hungarian Academy of
	Sciences
5-6/2006	Mobility Grant, Agrophysical Research Institute, Russian Academy of
	Agricultural Sciences, St. Petersburg, Russia
8/2004; 6/2005	Research stay, MTT Agrifood Research Finland, Jokioinen, Finland
10/2000, 11/2001	Research stay, Institute of Physicochemical and Biological Problems of Soil of
	the Russian Academy of Sciences, Puschino, Russia
9/1999	Research stay, Research Institute for Soil Science and Agricultural Chemistry
	of the Ukrainian Academy of Sciences, Kharkiv, Ukraine
9-12/1998	TEMPUS doctoral fellowship on "Dynamic modelling of soil water regime under
	various land use and tillage systems", Wageningen University, the Netherlands

Slovakia

9/1996 Research stay, Estonian University of Life Sciences, Tartu, Estonia

Key qualifications

Experienced in profile/plot scale soil hydrogeochemical mathematical models (SWAP, Soil, Soil-N, DrainMod, Hydrus-1D, Hydrus-2D/3D, Global)
Experienced in catchment level environmental simulation models (PERSiST, HBV Light, INCA-N, INCA-SED, INCA-P, SWAT, MikeShe)
Experienced in model sensitivity analyses and autocalibration tools INCA-N Sens and COUP (for the SWAT model)
Trained in "Measuring techniques in soil physics" (PhD Course, Wageningen University, the Netherlands; 1998)
Trained in "Applying geostatistical methods in soil science" (PhD Course, Slovak University of Agriculture, Nitra, Slovakia, 1995)

Skills in applying (geo)statistical software's (Statistica, GeoStat, MiniTab, Surfer)

• Experienced in developing and implementing research projects

Fields of interest

Multi-scale environmental modelling
Characterisation of water/material transport and retention in the landscape
Characterisation of spatio-temporal variability of soil properties
Climate change adaptation strategies for improving soil and water quality
Land use and climate change effects on (soil) hydrological processes
Soil erosion and water pollution from diffuse sources under changing climate

Commissions of trust

2017-	Editorial board member of the Journal of Hydrology and Hydromechanics, Slovakia
2016-	Member of the International Scientific Advisory Board, National Water Science
	Program, Hungarian Academy of Sciences, Hungary
2007-2009	Editorial board member of the Journal of Hydrology and Hydromechanics, Slovakia
2000	member of the Organising Committee and Editorial Board; Second ISTRO Workshop on
	Subsoil Compaction, Szent István Univ., Hungary
2000 -	invited reviewer to 15 international scientific journals, cca. 80 completed
	reviews to date
1998	member of the Organising Committee and Editorial Board; International ISTRO
	Conference on Soil Condition and Crop Production, Szent István Univ., Hungary

Awards of merrit

2008	Bolyai Award for outstanding scientific qualification of post-doctoral report, Hungarian
	Academy of Sciences
2007	ITSZN Niveau Author Award; by: Inter-Institutional Professional Committee of College
	Textbook Publishers; Achievement: Contribution to Birkás M. (ed.): "Soil use and
	management". Mezőgazda Publisher, Budapest, pp. 30-54
2003	Award for strengthening international scientific cooperation, Slovak Academy of
	Sciences, Slovak Republic
2003	Award for Youth Scientists, Hungarian Academy of Sciences, Hungary

Supervision of graduate students and research fellows

external advisor to Ilona Kása; PhD at Eötvös Loránd University, Budapest,
Hungary (ELTE Hungary)
committee member to Ellen Kayendeke (PhD at Norwegian University of Life Sciences,
Ås, Norway)
external advisor to Dorina Jamniczky; BSc at Szent István University, Gödöllő, Hungary
external advisor to Andrea Raveloson and Ákos Farkas; (MSc at ELTE Hungary)
committee member to Hajnalka Breuer (PhD at ELTE Hungary)
external advisor to Eszter Tóth (PhD at Corvinus University, Budapest, Hungary)
committee member to Renáta Sándor (PhD at Szeged University, Szeged, Hungary)
external advisor to Andrea Hagyó (PhD at Szent István University, Gödöllő, Hungary)
committee member to Dóra Beke (PhD at Pannon University, Keszthely, Hungary)
committee member to Titanilla Hárs (PhD at Szent István University, Gödöllő, Hungary)

Funding and project leadership history

Since 1993, participation in 21 Hungarian national, 10 Norwegian national and 16 international (mostly EUfunded), 7 EEA-Norway Grands founded and research projects and 16 international bilateral S&T projects. Out of these, professional coordination of 8 Hungarian national projects, 1 EEA-Norway Grants and 12 international bilateral S&T projects with Slovakia, Finland, Poland and Ukraine. WP leader in 2 Norwegian national, 2 EUfunded and 4 EEA-Norway Grant funded projects. Selected projects:

2022- NORBALT-ECOSAFE: Nitrogen and phosphorus load reduction approach within safe ecological boundaries for the Nordic-Baltic Region. (EU Horizon 2020), participant

2021-	SABICAS - SAfeguard Blodiversity and improve Climate Adaptation in catchment areas under
	pressure: tools and Solutions. (Research Council of Norway). Task leader on developing linked
	biophysical – statistical models.
2020-	OPTAIN - OPtimal strategies to retAIN and re-use water and nutrients in small agricultural
	catchments across different soil-climatic regions in Europe. (EU Horizon 2020); task leader of
	two modelling tasks including coordination of the field-scale modelling on consortium level
Since 2019	RID – Riverine Inputs and Direct Discharges EU OSPAR project, NIBIO Coordinator & EU level
	database manager
2019-	OPTIKORN - Adaptation strategies for increased cereal production under a wetter future climate.
	(Research Council of Norway). WP leader
2018-	Nordic Centre of Excellence: An Integrating Nexus of Land and Water Management for a
	Sustainable Nordic Bioeconomy (BIOWATER); NIBIO modelling team coordinator
2016-2017	Development of an innovative vermicomposting technology for communal sewage
	sludge recycling (Vermicomposting). EEA-Norway Grant HU09-0040, NIBIO coordinator
Since 2014	EU-level Database Manager of the EU OSPAR Commission RID Database on Riverine Inputs and
	Direct Discharges
2012-2017	Data model fusion for studying the combined effects of different land use and climate
	change scenarios on water regime and soil erosion; Hungarian Scientific Research
	Foundation, OTKA-101065, project coordinator
2014-2016	Development of data-modelling system and the decision support tool for the integrated
	marine and inland water management; EEA Financial Mechanism, Estonia, WP leader
2011-2013	Climate Change in the Carpathian Region (CARPATHCC); EU FP7, institute coordinator
2010-2013	Adaptive Strategies to Mitigate the Impacts of Climate Change on European Freshwater
	Ecosystems, REFRESH, EU FP7, participant
2006-2009	Water Retention Based Land Use Changes in the Bodrogköz Area – ecological processes
	and economical measures; EU Slovak-Hungarian Interreg Project, WP leader
2004-2009	Agroecology (Hungarian National Project), project manager