


## PERSONAL INFORMATION



## Turo Hjerppe

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 turo.hjerppe@ymparisto.fi

Sex Male | Date of birth 08/02/1985 | Nationality Finnish

## WORK EXPERIENCE

08/08/2011–Present

**Coordinator**

Finnish Environment Institute, Helsinki (Finland)

- Responsible for developing new tools for determining cost-effective measures for phosphorus load reduction and evaluating recreational value of watercourses for the implementation of the EU WFD (GisBloom, VELHO and BASE -projects)
- assisting in economic valuation and multicriteria decision analyses studies (e.g. VALUES), stream restoration research and GIS tasks related to the work on the Water Framework Directive (WFD)

04/05/2015–30/09/2015

**Senior inspector**

Ministry of the environment, Helsinki (Finland)

- Assisting in river basin management planning. E.g. finalizing the RBMPs, assessment of costs of the RBMPs in national level, organizing seminars and stakeholder meetings.

06/09/2010–05/08/2011

**Civil service**

Finnish Environment Institute, Helsinki (Finland)

- Assisting several research groups, for example, with surveys and GIS tasks.

25/05/2009–24/10/2009

**Trainee**

City of Helsinki, Environmental center, Helsinki (Finland)

- Collecting both stream water and marine water samples

11/05/2009–22/05/2009

**Assistant teacher**

University of Helsinki, Department of Geography, Helsinki (Finland)

- Teaching hydrology, water chemistry and land survey in a geography field course

## EDUCATION AND TRAINING

16/09/2016–Present

**PhD student**

EQF level 8

Aalto University, Systems Analysis Laboratory, Espoo (Finland)

Operations research, decision support systems

16/12/2011

**Master of Science**

EQF level 7

University of Helsinki, Department of geosciences and geography, Helsinki (Finland)

- Geography
- Physical geography
- Hydrogeography

21/11/2008 **Bachelor of Science** EQF level 6  
 University of Helsinki, Department of geography, Helsinki (Finland)  
 ■ Geography  
 ■ Physical geography

29/05/2004 **Matriculation exam** EQF level 4  
 Lyceum of Oulu, Oulu (Finland)  
 ■ General

PERSONAL SKILLS

Mother tongue(s) Finnish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1
Swedish	A2	B1	A2	A2	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

Communication skills ■ Good communication skills in Finnish and English gained through project collaboration, workshops, scientific seminars etc.

Organisational / managerial skills ■ Task/sub-project PI in national and international research projects  
 ■ Project manager in small national research projects  
 ■ Organisational skills gained through organizing numerous seminars and workshops within research projects

Job-related skills ■ Profound experience gained through national and international research projects: Environmental economics, Cost-effectiveness analysis, economic valuation, MCDA, Water Framework Directive, GIS

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Independent user	Proficient user	Independent user

Digital competences - Self-assessment grid

Other skills ■ PADI:n Advanced Open Water Diver  
 ■ Certified to give first aid

Driving licence B

ADDITIONAL INFORMATION

- Publications** ■ 18 scientific publications or reports out of which 5 in peer reviewed scientific journals

[Related document\(s\): Publications.pdf](#)

- Projects** ■ I have been working in a number of projects concerning the implementation of the EU WFD or environmental economic (or both). List of relevant projects is enclosed

[Related document\(s\): Relevant projects\\_hjerppe.pdf](#)

**Conferences** ESEE 2013 Conference : Ecological Economics and Institutional Dynamics

- 10th biennial conference of the European Society for Ecological Economics.
- Presentation: Adding realism in river basin management planning? - A tool for costing diffuse phosphorus loading reduction in Finnish catchments

**ANNEXES**

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- Relevant projects\_hjerppe.pdf
- Publications.pdf

## Relevant projects\_hjerppe.pdf

### Relevant projects:

- GisBloom -project 2010-2013 (Tools for evaluation and management of eutrophication)
  - **Funding:** EU/Life+ (Life09 ENV/FI/000569)
  - I worked as a leading researcher in a work package focusing on socio-economic assessments
  - The project was awarded as one of the best LIFE Environment projects in 2014
  - <http://www.syke.fi/hankkeet/GISBLOOM>
- VELHO -project 2010-2014 (Regional and local implementation of river basin and nature management in the watersheds of Southwestern Finland)
  - Funding: ERDF
  - I worked as a project manager in Finnish Environment Institute and as a leading researcher responsible for the socio-economic assessments of the implementation of the WFD
  - <http://www.ymparisto.fi/fi-FI/VELHO>
- BASE -project 2012-2016 (Bottom-Up Climate Adaptation Strategies Towards a Sustainable Europe)
  - Funding: FP 7
  - I worked as researcher modelling the climate change effects to the effectiveness and cost-effectiveness of phosphorus mitigation measures in agriculture
  - <http://base-adaptation.eu/>
- VEARME -project 2014-2016 (Economic analysis and assessment methods in water management)
  - Funding: Ministry of Agriculture and Forestry, Ministry of the Environment
  - I participated in conducting and reporting valuation study related to River Basin Management in Vuoksi River basin district
- VALUES 2014-2017 (Potential and Pitfalls of Alternative Approaches to Ecosystem Service Valuation)
  - Funding: Academy of Finland
  - I work as a researcher mainly responsible for the GIS analysis related to different management options of peatland, I also assist in the MCDA process
  - <http://www.syke.fi/hankkeet/values>
- PURO II -project 2009-2011 (Catchment based restoration of urban streams)
  - Funding: Ministry of Agriculture and Forestry, Ministry of the Environment
  - I assisted in planning of the stream restoration and in conducting a valuation study of urban stream restoration
- KarTuTa -project 2008-2012 (Integrating scenario approach into the river basin management planning in the Karvianjoki river basin)
  - Funding: ERDF, Ministry of Agriculture and Forestry, Ministry of the Environment
  - The aim of the project was to widen, deepen and focus the inspections presented in the programme of measures (PoM) for the Karvianjoki river basin. Particular emphasis was placed on the socio-economic assessments and the active involvement of key stakeholders.
  - I worked as researcher at the end of the project focusing on development and application of socio-economic assessments

## Publications.pdf

Turo Hjerppe

### Publications

#### Peer reviewed scientific publications

- 2017 Sarvilinna, A., Lehtoranta, V. & Hjerppe, T. (2017). Are Urban Stream Restoration Plans Worth Implementing? *Environmental Management* 59: 10-20. doi:10.1007/s00267-016-0778-z.
- 2016 Hjerppe, T., Seppälä, E., Väisänen, S. & Marttunen, M. (2016). Monetary assessment of the recreational benefits of improved water quality – description of a new model and a case study, *Journal of Environmental Planning and Management*, DOI: 10.1080/09640568.2016.1268108
- Hjerppe, T., Taskinen, A., Kotamäki, N., Malve, O. & Kettunen J. (2016). Probabilistic Evaluation of Ecological and Economic Objectives of River Basin Management Reveals a Potential Flaw in the Goal Setting of the EU Water Framework Directive. *Environmental Management*, DOI: 10.1007/s00267-016-0806-z
- Malve, O., Hjerppe, T., Tattari, S., Väisänen, S., Huttunen, I., Kotamäki, N., Kallio, K., Taskinen, A. & Kauppila, P. (2016). Participatory operations model for cost-efficient monitoring and modeling of river basins — A systematic approach. *Science of the total environment* 540: 79–89. DOI: 10.1016/j.scitotenv.2015.06.105
- 2015 Hjerppe, T. & Väisänen, S. (2015). A practical tool for selecting cost-effective combinations of phosphorus loading mitigation measures in Finnish catchments. *International journal of river basin management* 13: 363-376. DOI: 10.1080/15715124.2015.1012516.

#### Other publications

- 2016 Väisänen, S. & Ahopelto, L. (eds.) (2016). Value of the water resources in Finland. *Reports of the Finnish Environment Institute* 23/2016. 86 p. (In Finnish, English Abstract)
- Dubrovin, T., Hjerppe, T., Huttunen, I., Huttunen, M., Jakkila, J., Piirainen, V., Miettinen, T., Vallinkoski, V.-M., Vehviläinen, B. 2016. Climate change adaptation in Iisalmi watercourse – performance of watershed regulation and changes in nutrient loading. *Reports of the Centre for Economic Development, Transport and the Environment of Northern Savo*. 66 p. (In Finnish).
- 2015 Malve, O., Hjerppe, T., Kotamäki, N. & Taskinen, A. (2015). The ecological and economic effects of nutrient loading mitigation measures in Lake Kuortaneenjärvi (Kuortaneenjärven ravinnekuormituksen vähennystoimenpiteiden ekologiset ja taloudelliset vaikutukset). *Vesitalous* 2/2015, s. 8-13. (In Finnish)
- 2014 Seppälä, E., Hjerppe, T. & Marttunen, M. (2014). The benefits of water pollution control in the Gulf of Finland – Water quality impacts on recreational use of water bodies estimated with VIRVA model. *Reports of the Finnish Environment Institute* 34/2014. 66 p. (In Finnish, English abstract)
- Hjerppe, T., S. Väisänen & I. Sammalkorpi (2014). Water management on the Kauvatsa route – current situation and recommended actions. *Reports of the Finnish Environment Institute* 19/2014, 46 p. (In Finnish, English abstract)

- 2013 Hjerppe, T., E. Seppälä & M. Marttunen (2013). Efficiency to river basin management planning – new tools for coordinators (Tehokkuutta vesienhoitoon – uusia työkaluja suunnittelijoille). *Vesitalous* 4/2013, 36-40 (In Finnish).
- Lehtoranta, V. A. Sarvilinna & T. Hjerppe (2013). Value of the improved status of small water courses for the residents of the City of Helsinki (Parantuneiden pienvesien arvo helsinkiläisille). *Vesitalous* 1/2013, 14-17. (In Finnish)
- 2012 Sarvilinna A., T. Hjerppe, M. Arola, L. Hämäläinen & J. Jormola (2012). *Restoring urban streams*. Environment guide, Finnish Environment Institute, Helsinki. 76 p. (In Finnish, English abstract)
- Lehtoranta, V., A. Sarvilinna & T. Hjerppe (2012). The significance of streams for the residents of the City of Helsinki - Contingent valuation study for the feasibility of the small water action plan. *The Finnish Environment* 5/2012. 66 p. (In Finnish, English abstract)
- Marttunen, M., M. Dufva, K. Martinmäki, I. Sammalkorpi, T. Hjerppe, I. Huttunen, V. Lehtoranta, E. Joensuu, E. Seppälä & M. Partanen-Hertell (2012). Interactive and comprehensive river basin management planning - a summary of the results of the project "Integrating scenario approach into the river basin management planning in the Karvianjoki river basin". *The finnish environment* 15/2012. 132 p. (In Finnish, English abstract)
- Laukkonen, E., L. Vesikko, T. Hjerppe, L. Ahopelto, M. Marttunen, K. Kostamo, H. Pitkänen, S. Kuikka & K. Vesikko (2012). Expansion of common reed and water quality in the Gulf of Finland: results of an enquiry. *The Finnish Environment* 25/2012. 55 p. (In Finnish, English abstract)
- Heiskala, K. & T. Hjerppe (2012). Environmental impacts of soil erosion: methods to control erosion in Tafilalet. In Minoia, P. & I. Kaakinen (ed.) (2012). Encounters across the Atlas – Fieldtrip in Morocco 2011. *Expedition reports of department of geography, University of Helsinki* 49. 141 p. Unigrafia, Helsinki.
- 2010 Master's thesis. Water quality of stream Näsinoja-Tuomarinkylänoja and special features of loading. Grading: Magna cum laude approbatur. (In Finnish, English abstract)