

## CURRICULUM VITAE

**Name:** Tibor ERŐS  
**Profession:** Aquatic ecologist  
**Working address:** MTA Centre for Ecological Research, Balaton Limnological  
 Institute, Department of Hydrozoology  
 Klebelsberg K. u. 3.  
 Tihany  
 H-8237, Hungary  
**Phone:** work +36 87 448 244;  
**FAX:** +36 87 448 006  
**E-mail:** eros.tibor@okologia.mta.hu

### EMPLOYMENT

2018 – Scientific adviser  
 MTA Centre for Ecological Research  
 2005 – Senior researcher,  
 MTA Centre for Ecological Research  
 2004 – 2005 Research fellow  
 Water Resources Research Station (VITUKI Kht), Hydrobiology Laboratory,  
 Budapest, Hungary  
 1999 – 2004. Assistant research fellow  
 Hungarian Danube Research Station of the Hungarian Academy of Sciences,  
 Göd, Hungary

### EDUCATION

2006 Postdoctoral Research Fellow, Karlstad University, Department of Biology,  
 Sweden  
 2005 Ph.D. Eötvös Loránd University, Budapest  
 Title: Assemblage organization of stream fishes – the influence of habitat  
 structure  
 1997 M.S. Biologist, Eötvös Loránd University, Budapest  
 Faculty of Ecology and Evolutionary Biology

### RESEARCH INTERESTS

Freshwater ecology and conservation  
 Fish ecology  
 Environmental monitoring and assessment  
 The biology and ecological effects of invasive species

### STUDY TRIPS ABROAD

2006 Karlstad University, Department of Biology, Sweden – ecology of aquatic-terrestrial  
 relationships, post doctoral scholarship (Prof. Dr. Larry Greenberg)  
 2003 Institute für Zoologie, Poppelsdorfer Schloss, Bonn, Germany – fish ecophysiology,  
 short visit (Prof. Dr. Horst Bleckmann)  
 2002 Warnell School of Forest Resources, University of Georgia, Georgia, USA – stream fish  
 ecology, habitat use of fishes, short visit (Prof. Dr. Gary D. Grossman)

## **PUBLICATIONS**

For a full list of publications see:

[https://scholar.google.hu/citations?hl=hu&user=jEC3YEAAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.hu/citations?hl=hu&user=jEC3YEAAAAAJ&view_op=list_works&sortby=pubdate)

## **SCIENTIFIC ACHIEVEMENTS AND AWARDS**

- 2018 Honorable mention for excellence of research by the secretary general of the Hungarian Academy of Sciences
- 2012-2015 Bolyai János Research Scholarship of the Hungarian Academy of Sciences
- 2012 Bolyai plaque (medal) for excellent research achievements by the Hungarian Academy of Sciences
- 2011 Foreign Scholar Award winner for the United States International Association for Landscape Ecology (US IALE) conference, Portland, Oregon, April 3-7, 2011.
- 2010 SCOPE-Zhongyu Young Scientist Award on Environmental Issues for research on environmental sciences (UNESCO-SCOPE and Chinese Academy of Sciences)
- 2010 Researcher of the year (Committee of Veszprém, Hungarian Academy of Sciences)
- 2010 Young Scientist Life Achievements Award for environmental research (Hungarian Academy of Sciences)
- 2009 Certificate of merit from the National Scientific Student Council for being the supervisor of a Pro-Scienza gold medal student
- 2008-2012 Bolyai János Research Scholarship of the Hungarian Academy of Sciences
- 2006 “Young Researcher Prize” of the Hungarian Academy of Sciences
- 2005 Karlstad University, Sweden, Postdoctoral scholarship
- 2004-2001 “Young Researcher Scholarship”, Hungarian Academy of Sciences

## **MAIN PROFESSIONAL ORGANIZATIONS AND ACTIVITY**

- XGIG Large River Intercalibration Group, EU, National fish expert of Hungary
- Hungarian Hydrological Society, Section for Limnology – board member (2011-2014)
- Hungarian National Biodiversity Monitoring System – board member and coordinator of the fish expert group (2007-)
- Hungarian Biological Society, Section of Ecology – board member, secretary/treasurer (2006-2012)
- Hungarian Ichthyological Society – foundation member (2005-)
- Limnological Section of the Hungarian Hydrological Society – member (1999-)
- Hungarian National Science Foundation (OTKA) – supraindividual section, board member (2012-2016)
- MTA Scientific Committee of Ecology (2014-)

## **MAIN PROFESSIONAL SERVICES**

- Fundamental and Applied Limnology (Archiv für Limnologie) – chief editor
- Journal of Applied Ichthyology – editor (Fisheries ecology)
- Pisces Hungarici (Journal) – editorial board member (2009-)
- Board member of National Scientific Student Conference, Section of Hydrobiology (2012)
- Board member of National Scientific Student Conference, Section of Animal Ecology (2009)
- Coordinator of the National Biodiversity Monitoring Program, expert group of fishes and fish assemblages (2007-)

Leading board member of the fish expert group of the Hungarian Ministry of Environment and Water for the PHARE project 'Ecological survey of Hungarian waters for the establishment of the implementation of the EU WFD' (2005)

Aquatic ecologist researcher in the Trans National Network Monitoring of Hungarian surface waters (VITUKI, 2004-2005)

'META' data base coordinator of fishes for implementing the Water Framework Directive of the European Union in Hungary (2003)

Reviewed manuscripts for *Conservation Letters*, *Conservation Biology*, *Oikos*, *Ecology Letters*, *Ecography*, *Ecosystems*, *Ecology*, *Ecological Applications*, *Functional Ecology*, *Global Change Biology*, *Oecologia*, *Diversity and Distributions*, *Journal of Applied Ecology*, *Proceedings of the Royal Society B*, *Journal of Hydrology*, *Ecological Modelling*, *Ecological Indicators*, *Landscape Ecology*, *Land Degradation & Development*, *Community Ecology*, *Acta Oecologica*, *American Midland Naturalist*, *Aquatic Ecology*, *Aquatic Conservation-Marine and Freshwater Ecosystems*, *Ecological Indicators*, *Biodiversity & Conservation*, *Biological Invasions*, *Ecology of Freshwater Fish*, *Environmental Biology of Fish*, *Freshwater Biology*, *Freshwater Science*, *Fundamental and Applied Limnology*, *International Review of Hydrobiology*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Fish and Fisheries*, *Fisheries Research*, *Fisheries Management and Ecology*, *Reviews in Fish Biology and Fisheries*, *Copeia*, *Hydrobiologia*, *Journal of Fish Biology*, *Journal of Applied Ichthyology*, *Knowledge and Management of Aquatic Ecosystems*, *Limnologica*, *River Research and Applications*, *Central-European Journal of Biology*, *Acta Ichthyologica and Piscatoria*, *Folia Zoologica*, *Biologia-Bratislava*, *Acta Biol. Debr. Suppl. Oecol. Hung.*, *Természetvédelmi Közlemények*, *Hidrológiai Közlöny*

## OUTSTANDING STUDENTS

Péter Borza (M.S., 2008) Awards: First prize of the National Scientific Student Conference, Section of Hydrobiology I. (2009)

Pro-Scientia gold medal (2009)

Péter Sály (Ph.D. 2013) Awards: Best student oral presentation, National Conference of Hydrobiology (2007)

## PHD STUDENTS

Péter Sály (Ph.D. 2013) Summa cum laude

István Czeglédi (Ph.D. 2016) Summa cum laude

Zoltán Szalóky (Ph.D. 2017) Summa cum laude

## 10 SELECTED PUBLICATIONS

1. Copp, G.H., Bianco, P.G., Bogutskaya, N.G., Erős, T., Falka, I., Ferreira, M.T., Fox, M.G., Freyhof, J., Gozlan, R.E., Grabowska, J., Kováč, V., Moreno-Amich, R., Naseka, A.M., Peñáz, M., Povž, M., Przybylski, M., Robillard, M., Rusell, I.C., Stakėnas, S., Šumer, S., Vila-Gispert, A., Wiesner, C. 2005. To be or not to be, a non-native freshwater fish? *Journal of Applied Ichthyology* 21: 242-262.
2. Erős, T., Schmera, D., Schick, R.S. (2011): Network thinking in riverscape conservation – a graph-based approach. *Biological Conservation* 144: 184-192.
3. Erős, T., Olden, J.D., Schick, R.S., Schmera, D., Fortin, M-J. (2012): Characterizing connectivity relationships in freshwaters using patch-based graphs. *Landscape Ecology* 27: 303-317.

4. Erős, T., Sály, P., Takács, P., Specziár, A., Bíró, P. (2012): Temporal variability in the spatial and environmental determinants of functional metacommunity organization – stream fish in a human-modified landscape. *Freshwater Biology* 57: 1914-1928.
5. Erős T., Sály P., Takács P., Higgins C.M., Schmera D., Bíró P. (2014): Quantifying temporal variability in the metacommunity structure of stream fishes: the influence of non-native species and environmental drivers. *Hydrobiologia* 722: 31-43.
6. Crook, D.A, Lowe, W.H., Allendorf, F.W., Erős, T., Finn, D.S., Gillanders, B.M., Hadwen, W.L., Harrod, C., Hermoso, V., Jennings, S., Kilada, R.W., Nagelkerken, I., Hansen, M.M., Page, T.J., Riginos, C., Fry, B., Hughes, J.M. (2015): Human effects on ecological connectivity in aquatic ecosystems. Integrating scientific approaches to support management and mitigation. *Science of the Total Environment* 534: 52–64.
7. Dolezsai A., Sály P. Takács P., Hermoso V., Erős T. (2015): Restricted by borders: trade-offs in transboundary conservation planning for large river systems. *Biodiversity & Conservation* 24: 1403-1421.
8. Takács P., Czeglédi I., Ferincz Á., Sály P., Specziár A., Vitál Z., Weiperth A., Erős T. (2017): Non-native fish species in Hungarian waters: historical overview, potential sources and recent trends in their distribution. *Hydrobiologia* 795: 1-22.
9. Mihók B., Bíró M., Molnár Zs, Kovács E., Bölöni J., Erős T., Standovár T., Török P., Csorba G., Margóczy K., Báldi A. (2017): Biodiversity on the waves of history: Conservation in a changing social and institutional environment in Hungary, a post-soviet EU member state. *Biological Conservation* 211: 67-75.
10. Erős T., O'Hanley JR, Czeglédi I. (2018): A unified model for optimizing riverscape conservation. *Journal of Applied Ecology* 55:1871–1883.

Full list of publications:

[https://scholar.google.hu/citations?hl=hu&user=jEC3YEAAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.hu/citations?hl=hu&user=jEC3YEAAAAAJ&view_op=list_works&sortby=pubdate)

Researchgate site:

[https://www.researchgate.net/profile/Tibor\\_Eros](https://www.researchgate.net/profile/Tibor_Eros)