

# Péter SÁLY (PhD)

MTA Centre For Ecological Research  
Danube Research Institute  
H-1113 Budapest, Karolina út 29.  
HUNGARY

Phone: +36 1 279 3100 ext: 303

Email: [saly.peter@okologia.mta.hu](mailto:saly.peter@okologia.mta.hu)

Born: August 6, 1976—Eger, Hungary

Nationality: Hungarian

## Professional experience

2018–present	MTA Centre for Ecological Research, Danube Research Institute <i>research fellow</i>
2016–2018	Department of Hydrobiology, University of Pécs, Hungary <i>assistant professor</i>
2013–2016	Hungarian Academy of Sciences, Centre for Ecological Research Balaton Limnological Institute, Tihany, Hungary <i>research fellow</i>
2013	Hungarian Academy of Sciences, Centre for Ecological Research Balaton Limnological Institute, Tihany, Hungary <i>assistant research fellow</i>
2010–2012	Department of Zoology and Animal Ecology, Szent István University, Gödöllő, Hungary <i>assistant lecturer</i>
2010	Department of Zoology and Animal Ecology, Szent István University, Gödöllő, Hungary <i>technical assistant</i>
2006–2007	Márton Bálint Elementary and Secondary School, Törökbálint, Hungary <i>teacher</i>

## Education

2013	PhD degree <i>summa cum laude</i> (100%)
2007–2010	Doctoral School of Environmental Sciences, Szent István University, Gödöllő, Hungary
2000–2005	Eötvös Loránd University, Budapest, Hungary <i>certified teacher of biology and ecology</i> MSc (excellent)

## Languages

Hungarian	mother tongue
English	upper intermediate
Spanish	basic communication skills

## Research interest

My primary research interest is community ecology of stream fishes from the perspective of the spatial and temporal patterns of biodiversity.

Understanding the role of environment and spatial factors in shaping fish assemblages is one of the cornerstones of the effective nature conservation management of riverine communities. To make progress in this area, we need reliable field data from environmental monitorings. Study of both the detection probability of the fish species and the accuracy of sampling methods can contribute to the improving of monitoring programs. Further, reliable data open up possibilities for predictive modelling of species distributions, which can bridge the divides that have emerged between basic ecological research and applied conservation biology. For example, predicting potentially suitable habitats for an endangered species can help elaborate introduction programs or discover formerly unknown stocks in the wild.

Another interesting approach in stream fish ecology is the studying of dispersal processes of fish. Knowledge on movement abilities and dispersal rates help understanding the functional habitat use of fish, and support decision making on how to improve longitudinal connectivity of streams and rivers in regard to migration barriers such as, for instance, weirs, culverts and barraiges.

## Teaching experience

2016–present	Department of Hydrobiology, University of Pécs, Hungary <ul style="list-style-type: none"><li>• <i>Biostatistics – lectures and practices with R</i></li><li>• <i>Scientific method and research planning – lectures (co-lecturer)</i></li><li>• <i>Aquatic vertebrates – lectures</i></li></ul>
2014	Pannon University, Veszprém, Hungary <ul style="list-style-type: none"><li>• <i>Environmental data analysis – visiting lecturer</i></li></ul>
2010–2012	Department of Zoology and Animal Ecology, Szent István University, Gödöllő, Hungary <ul style="list-style-type: none"><li>• <i>Multivariate statistical methods applies in ecology with R – lectures and practices</i></li><li>• <i>Statistical methods applied in ecology with R – lectures and practices</i></li><li>• <i>Field research methods – lectures (co-lecturer)</i></li><li>• <i>Zoology – practices</i></li></ul>
2006–2007	Márton Bálint Elementary and Secondary School, Törökbálint, Hungary <ul style="list-style-type: none"><li>• <i>Biology</i></li><li>• <i>Environmental science</i></li></ul>

## Skills

- Programming in R
- Statistical data analysis including linear models, multivariate methods (classifications and ordinations), decision trees, random forest, Multivariate Adaptive Regression Splines (MARS), eigenanalysis-based spatial modeling methods (*e.g.* MEM analysis)
- GIS data handling (in QGIS and R)
- Document editing in LaTeX
- Vector graphics editing in Inkscape
- Use of Linux operating system (Ubuntu and Mint distributions)
- Electrofishing

- Excellent teaching skills and abilities

June 24, 2019—Budapest, Hungary