

Péter SÁLY (PhD)

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Born: August 6, 1976—Eger, Hungary

Nationality: Hungarian

Professional experience

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| 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

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| 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

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| 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

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

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