

## PERSONAL DATA

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## EDUCATION

- 2018 Fulbright Scholar, University of Vermont, USA, host: Prof. William S. Keeton
- 2003 PhD in ecology, Department of Plant Taxonomy and Ecology, Eötvös Loránd University, Budapest. Thesis title: Landscape-level prediction of vegetation patterns
- 1995 University Diploma in evolutionary biology and ecology, Eötvös Loránd University, Budapest
- 1995 University Diploma in English Translation, Eötvös Loránd University, Budapest

## PROFESSIONAL POSITIONS HELD

- Since 2013 Research Fellow at the Centre for Ecological Research, Hungarian Academy of Sciences
- 2012 Project Manager of international projects at Duna-Ipoly National Park
- 2009-2011 Research Fellow at the Department of Plant Taxonomy and Ecology of Eötvös Loránd University, Budapest
- 1995-2004 Assistant Research Fellow at the Centre for Ecological Research, Hungarian Academy of Sciences

## COURSES TAUGHT AND OTHER SERVICES PROVIDED TO STUDENTS AND THE HOME INSTITUTION

Guest lecturing on forest ecology, dynamics and management, University of Vermont, Burlington, USA, 2018, 2020

Guest lecturing on forest ecology, dynamics and management, Institute for Biology, University of Veterinary, Budapest, 2010-2016

Plant-taxonomy classes and field excursions as research fellow at the Department of Plant Taxonomy and Ecology of Eötvös Loránd University, Budapest, 2009-2012

Regular yoga classes for the colleagues of the Institute of Ecology and Botany since 2014

## Student advising:

Students with completed MS degrees: Gabriella Kovács (2005), Klaudia Kovács (2006) and BSc: Veréb Krisztina (2019)

## MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL ASSOCIATIONS

Since 2014; Member of the Hungarian Ecological Society

2015-2017; Member of the EASAC forest group, participation in the publication of EASAC report (2017): Multi-functionality and sustainability in the European Union's forests

## WORK EXPERIENCE AND RESEARCH COLLABORATIONS

- 2019-2023 [Bottoms-Up](#) is a COST cooperation project gathering information on European temperate forest multi-taxon biodiversity to inform sustainable forest management
- 2017-2026 Developing conservation management tools for increasing structural and compositional biodiversity in Natura2000 oak forests. [LIFE 4 Oak Forests](#).
- 2018 Fulbright Scholarship, University of Vermont, USA, host: Prof. William S. Keeton. Topic: "Development of innovative, ecologically-based forest management practices in Central Europe with the focus of Hungary."
- 2017-2019 Ecosystem services of karst protected areas – driving force of local sustainable development ([Eco Karst](#)). [Interreg project](#), EU Danube Transnational Programme.
- 2015-2022 Investigating the effect of different forest management practice on the regeneration and herb layer. Hungarian Scientific Research Fund (OTKA) K111887, K128441, project: "Experimental investigation of the effects of forestry treatments on the forest site, regeneration and biodiversity", <https://piliskiserlet.ecolres.hu/en/node/1>
- 2013-2017 Analyzing the deadwood characteristics of managed and abandoned oak forest habitats. Hungarian Scientific Research Fund (OTKA) 105896 project: "Comparative analysis of forest stand structure and herblayer in managed and unmanaged sessile and Turkey oak dominated forests"
- 2012-2017 Mapping the indicators of ecosystem services in the Kiskunság region, Central Hungary. OpenNESS EU FP7 project; "Operationalisation of Natural Capital and Ecosystem Services: From Concepts to real-world Applications", [www.openness-project.eu](http://www.openness-project.eu)
- 2009-2010 Comparing field-based and remotely-sensed data in the mapping of ice disturbance in deciduous forests. Hungarian Scientific Research Fund (OTKA) grant NI. 68218., 2003-2010: "Exploring multivariate biological phenomena at population and community levels"
- 2008 Organizing long-term ecological data series, ontology works. Alter-Net project, EU FP6 Network of Excellence, Project no. GOCE-CT-2003-505298, 2003-2009: „A Long-Term Biodiversity, Ecosystem and Awareness Research Network”, [www.alter-net.info](http://www.alter-net.info)
- 2002-2005 Participation in the Landscape Ecological Vegetation Mapping in Hungary (MÉTA). MÉTA project: NKFP-3B/0008/2002, „Surveying and comparative analysis of Hungary's natural vegetation heritage and its comparative evaluation of Hungary”, [www.novenyzetiterkep.hu/english](http://www.novenyzetiterkep.hu/english)
- 2001- 2004 Member of the "Termerd" team, responsible for developing the method of assessing forest naturalness in Hungary. TERMERD project, 2001-2004: „Assessing forest naturalness in Hungary”, <http://ramet.elte.hu/~ramet/project/termerd/indexAngol.html>
- 2001-2004 Research in Hungarian forest reserves - detecting forest developmental stages on aerial photos, investigation of tree stand structure in Vár-hegy (oak dominated) reserve, participation in developing the tree strand structure survey method of Hungarian forest reserves. Several grants: TvH 503/F 2001, K-36-02-00189, 2002-2003, H-36-03-00029, 2003-2004, [www.erdorezervatum.hu/en](http://www.erdorezervatum.hu/en)
- 2001-2004 Study of gap characteristics in the Néra Forest Reserve (Romania) using satellite image analysis, and investigating natural disturbances (ice and wind) in the forests of Börzsöny Mts. NATMAN project, EU5 QLRT1-CT99-1349, 2000-2004: "Nature-

- based Management of beech in Europe - a multifunctional approach to forestry”,  
[http://cordis.europa.eu/project/rcn/52801\\_en.html](http://cordis.europa.eu/project/rcn/52801_en.html)
- 1998, 1999 Scholarships, University of Toronto, Canada, host: Prof. Ferenc Csillag Topic: “Predicting vegetation patterns with GIS tools”
- 1994-2004 Modelling the vegetation pattern with background variables (loess meadows; distribution of a Primula species; forest habitats; ice and wind forest disturbances) – M.Sc. and Ph.D. thesis topic. Grants: Hungarian Scientific Research Fund (OTKA) T452043, 2003-2004, and OTKA F022320, 1997-1998

## LIST OF PUBLICATIONS:

- Aszalós, R.**, Thom, D., ... Keeton, W. S. (2022): Natural disturbance regimes as a guide for sustainable forest management in Europe. *Ecological Applications*. 32 (5).
- Angelstam, P., Albulescu, A. C., Andrianambinina, O. D. F., **Aszalós, R.**, Borovichev, E., Cardona, W. C., ... & Zlatanov, T. (2021). Frontiers of protected areas versus forest exploitation: Assessing habitat network functionality in 16 case study regions globally. *Ambio*, 50(12), 2286-2310.
- Bölöni, J., **Aszalós, R.**, Frank, T., & Ódor, P. (2021). Forest type matters: Global review about the structure of oak dominated old-growth temperate forests. *Forest Ecology and Management*, 500, 119629.
- Burrascano, S., Trentanovi, G., Paillet, Y., Heilmann-Clausen, J., Giordani, P., Bagella, S., ... **Aszalós, R.** ...& Ódor, P. (2021). Handbook of field sampling for multi-taxon biodiversity studies in European forests. *Ecological Indicators*, 132, 108266.
- Kuslits, B., Vári, Á., Tanács, E., **Aszalós, R.**, Drasovean, A., Buchriegler, R., ... & Arany, I. (2021). Ecosystem Services Becoming Political: How Ecological Processes Shape Local Resource-Management Networks. *Frontiers in Ecology and Evolution*, 9, 125.
- Aszalós, R.**, Szigeti, V., Harnos, K., Csernák, Sz., Frank, T., Ónodi, G. (2020) Foraging activity of woodpecker species on various forms of artificially created deadwood, *Acta Ornithologica* 55:63-76.
- Tinya, F., Kovács, B., **Aszalós, R.**, Tóth, B., Csépanyi, P., Németh, Cs., Ódor, P. (2020). Initial regeneration success of tree species after different forestry treatments in a sessile oak-hornbeam forest. *Forest Ecology and Management* 459: 117810..
- ARANY, I., VARI, A., **ASZALOS, R.**, KELEMEN, K., KELEMEN, M. A., BONE, G., ... & CZUSZ, B. (2019). Diversity of flower-rich habitats as a persistent source of healthy diet for honey bees. *European Journal of Geography*, 10(2), 89-106.
- Elek, Z.,; Kovács, B., **Aszalós, R.**; Boros, G., Samu, F., Tinya, F., Ódor, P. (2018): Taxon-specific responses to different forestry treatments in a temperate forest. *SCIENTIFIC REPORTS* 8 Paper: 16990, 10 p.
- Czúcz B, Arany I, Potschin-Young M, Bereczki K, Kertész M, Kiss M, **Aszalós R**, Haines-Young R (2018): Where concepts meet the real world: A systematic review of ecosystem service indicators and their classification using CICES. *ECOSYSTEM SERVICES* 29: pp. 145-157.
- Dunford Rob, Harrison Paula, Czúcz Bálint, Vári Ágnes, **Aszalós R.**, ... (2018): Integrating methods for ecosystem service assessment: Experiences from real world situations. *ECOSYSTEM SERVICES* 29: (Part C) pp. 499-514.
- Saarikoski, H., Primmer, E., Saarela, S. R., Antunes, P., **Aszalós, R.**, Baró, F., ... & Dick, J. (2018). Institutional challenges in putting ecosystem service knowledge in practice. *Ecosystem Services* 29: (Part C) pp. 579-598.
- Dick J., Turkelboom, F., Woods, H., Iniesta-Arandia, I., Primmer, E., Saarela, S.,... **Aszalós, R.**...et al. (2018): Stakeholders’ perspectives on the operationalisation of the ecosystem service concept: results from 27 case studies. *Ecosystem Services* 29: (Part C) pp. 552-565.

- Turkelboom Francis, Leone Michael, Kelemen Eszter, Kalóczkai Ágnes, Czúcz Bálint, **Aszalós Réka**, Rusch Verónica et al (2018): When we cannot have it all: Ecosystem services trade-offs in the context of spatial planning. *ECOSYSTEM SERVICES* 29: (Part C) pp. 566-578.
- Zulian Grazia, Stange Erik, Woods Helen, Carvalho Laurence, Dick Jan, Andrews Christopher... **Aszalós Réka**, et al (2018): Practical application of spatial ecosystem service models to aid decision support. *ECOSYSTEM SERVICES* 29: (Part C) pp. 465-480.
- Aszalós, R.**, Horváth, F., Mázsa, K., Ódor, P., Lengyel, A., Kovács, G., Bölöni, J. (2017): First signs of old-growth structure and composition of an oak forest after four decades of abandonment. *Biologia*
- EASAC report (2017)
- Bölöni, J., Ódor, P., Ádám, R., Keeton, W. S., **Aszalós, R.** (2017): Quantity and dynamics of dead wood in managed and unmanaged dry-mesic oak forests in the Hungarian Carpathians. *Forest Ecology and Management*, 399, 120-131.
- Standovár, T., Horváth, S., **Aszalós, R.** (2017). Temporal changes in vegetation of a virgin beech woodland remnant: stand-scale stability with intensive fine-scale dynamics governed by stand dynamic events. *Nature Conservation*, 17, 35.
- Nagy, G. G., Ladányi, M., Arany, I., **Aszalós, R.**, Czúcz, B. (2017) Birds and plants: comparing biodiversity indicators in eight lowland agricultural mosaic landscapes in Hungary. Accepted in *Ecological Indicators*
- Ónodi, G., Altbäcker, V, **Aszalós, R.**, Botta-Dukát Z., Hahn I., Kertész M. (2014): Long-term weather sensitivity of open sand grasslands of the Kiskunság Sand Ridge forest-steppe mosaic after wildfires. *Community Ecology* 15: 121-129.
- Aszalós, R.**, Somodi, I., Kenderes, K., Ruff, J., Czúcz, B., Standovár T. (2012): Accurate prediction of ice disturbance in European deciduous forests with generalized linear models: a comparison of field-based and airborne-based approaches. *European Journal of Forest Research* 131: 1905-1915.
- Peterseil, J., Magagna, B., Schentz, H., van der Werf, B., Kertész, M., Bertrand, N., Kuitunen, P., van Haele, T., Frenzel, M., Borovec, J., Lieskovský, J., Adamescu, M., **Aszalós, R.**, Karasti, H., Boussard, H., Blankman, D. (2009). Basic Set of Domain Ontologies. A Long-Term Biodiversity, Ecosystem and Awareness Research Network (ALTER-Neet) Report WPI6-2009-06, 3.I6.D1
- Kenderes, K., **Aszalós, R.**, Ruff, J., Barton, Zs., Standovár, T. (2007): Effects of topography and tree stand characteristics on susceptibility of forests to natural disturbances (ice and wind) in the Börzsöny Mountains (Hungary). *Community Ecology* 8: 209-220.
- Horváth, F., Mázsa, K., **Aszalós, R.**, Bölöni, J. (2006): Innovation related to natural forest ecosystem research. In: Recent results supporting sustainability, Institute of Ecology and Botany, HAS, 2006. pp. 27-33.
- Bartha, D., Ódor, P., Horváth, T., Tímár, G., Kenderes, K., Standovár, T. Bölöni, J., Szmorad, F., Bodoncz, L., **Aszalós, R.** (2006): Relationship of Tree Stand Heterogeneity and Forest Naturalness. *Acta Silvatica et Lignaria Hungarica* 2: 7-22.
- Standovár, T., Ódor, P., **Aszalós, R.**, Gálhidy, L. (2006): Sensitivity of ground layer vegetation diversity descriptors in indicating forest naturalness. *Community Ecology* 7: 199-209.
- Somodi, I., Virágh, K., **Aszalós, R.** (2004): The effect of the abandonment of grazing on the mosaic of vegetation patches in a temperate grassland area in Hungary. *Ecological Complexity* 1: 177-189.
- Aszalós, R.**, Standovár, T. (2003), A study of Gap Characteristics in the Néra Forest Reserve (Romania) Using Satellite Image Analysis (NATMAN Working Report 26 Work-Package 2).

- Aszalós, R.**, Standovár, T., Ruff, J., Barton, Z. (2003). Natural Disturbances (Ice and Wind) in the Forest of Börzsöny (NATMAN Working Report 27 Work-Package 2)
- Fekete, G., Virágh, K., **Aszalós, R.**, Précsényi, I. (2000): Static and dynamic approaches to landscape heterogeneity in the Hungarian forest-steppe zone. *Journal of Vegetation Science* 11: 375-382.