

## CURRICULUM VITAE

### Radim Hédľ

Date and place of birth: 8 August 1976, Jeseník, Czechoslovakia  
Resident: Brno, Czech Republic



### EDUCATION

- 1991–1995: high school (gymnasium); Jeseník.
- 1995–1998 (Bc. in biology): Faculty of Sciences, Charles University, Prague.
- 1996–2003 (MgA. of fine arts): Academy of Fine Arts, Prague.
- 1998–2001 (Mgr. in botany): Dept. of Botany, Faculty of Sciences, Charles University, Prague.
- 2001–2005 (PhD. in landscape ecology): Faculty of Forestry and Wood Technology, Mendel University, Brno.
- 2003–2006: Art History, Faculty of Philosophy, Masaryk University, Brno.

#### Study stays abroad:

- 2000: Institute of Botany, Innsbruck University, Austria; one semester.
- 2001: Institute of Botany, Aarhus University, Denmark; one semester.

### EMPLOYMENT

- 2004–present: Researcher, Institute of Botany, The Czech Academy of Sciences.
- 2006–present: Head of the Department of Vegetation Ecology, Institute of Botany, The Czech Academy of Sciences.
- 2015–present: Researcher, Palacký University in Olomouc, Faculty of Science.

### RESEARCH FELLOWSHIPS

- 2011: Research Fellowship, Faculty of Science, University of Brunei Darussalam; one year.
- 2012: Fulbright Research Fellowship, Marshall University, West Virginia, USA; with prof. F.S. Gilliam, six months.
- 2016: Ruth Crawford Mitchell Fellowship, University of Pittsburgh, Pennsylvania, USA; with prof. W.P. Carson, four months.

### TEACHING

- Supervision of 7 undergraduate (bachelor) 11 graduate (master) and 4 postgraduate (PhD) students at universities in Prague, Brno and Olomouc, Czech Republic.

#### Lecturing (regular):

- Vegetation ecology of the tropics. Mendel University in Brno, CZ. 2012–2013.
- Basics of Scientific Thinking. Mendel University in Brno, CZ. 2013–2015.
- Pedology for Botanists. Palacký University in Olomouc, CZ. 2014–ongoing.
- Forest Ecology. Palacký University in Olomouc, CZ. 2014–ongoing.
- Vegetation Science. Palacký University in Olomouc, CZ. 2016–ongoing.
- Biomes of the World. Charles University in Prague, CZ. 2018.

### MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- International Association for Vegetation Science (IAVS)
- British Ecological Society (BES)
- European Society for Environmental History (ESEH)
- Czech Botanical Society (CBS)
- Czech Society for Ecology (CSPE)

## COMMUNITY SERVICES

- Associate Editor of *Folia Geobotanica* (2006–2017), a journal of the Institute of Botany of the Czech Academy of Sciences, indexed at WOS.
- Long-Term Ecological Research – member of the Czech National Committee; [www.lter.cz](http://www.lter.cz)
- National Forestry Program in the Czech Republic (2009–2011); [www.uhul.cz/nlp/](http://www.uhul.cz/nlp/)
  - Member of the Coordination Board
  - Member of the working group for the key action “Biodiversity”

### Organization of conferences:

- Trends in Research and Teaching of Historical Ecology in Central Europe; Central European University, Budapest, HU, 2007.
- Diversity, dynamics and management of forest vegetation; Czech Botanical Society, Prague, CZ, 2008.
- History of Flora and Vegetation in Late Glacial and Holocene in the light of current knowledge; Czech Botanical Society, Prague, CZ, 2013.
- Coppice forests: past, present and future; Brno, CZ, 2015.
- International Association for Vegetation Science Symposium 2015; Brno, CZ, 2015.

## PUBLICATIONS

Publication list (19 September 2018): over 50 peer-reviewed papers, over 30 popularization papers, chapters in 7 books. Initiating and editing of three special features: in *Applied Vegetation Science* (2017) and *Folia Geobotanica* (2014, 2017).

- Web of Science: 52 papers, 949 citations, h-index 17.
- Google Scholar: 1781 citations, h-index 21.

### Select research papers 2004-2017:

- Hédli R., Bernhardt-Römermann M., Grytnes J.-A., Jurasinski G. & Ewald J. (2017): Resurvey of historical vegetation plots: a tool for understanding long-term dynamics of plant communities. *Applied Vegetation Science* 20(2): 161–163.
- Chudomelová M., Hédli R., Zouhar V. & Szabó P. (2017): Open oakwoods facing modern threats: Will they survive the next fifty years? *Biological Conservation* 210: 163–173.
- Kapfer J., Hédli R., Jurasinski G., Kopecký M., Schei F. H. & Grytnes J.-A. (2017): Resurveying historical vegetation data - opportunities and challenges. *Applied Vegetation Science* 20(2): 164–171.
- Szabó P., Kuneš P., Svobodová-Svitavská H., Švarcová M. G., Křížová L., Suchánková S., Müllerová J. & Hédli R. (2017): Using historical ecology to reassess the conservation status of coniferous forests in Central Europe. *Conservation Biology* 31: 150–160.
- Verheyen K., De Frenne P., Baeten L., Waller D. M., Hédli R., Perring M. P., et al. (2017): Combining community resurvey data to advance global change research. *BioScience* 67(1): 73–83.
- Bernhardt-Römermann M., Baeten L., Craven D., De Frenne P., Hédli R., et al. (2015): Drivers of temporal changes in temperate forest plant diversity vary across spatial scales. *Global Change Biology* 21: 3726–3737.
- Vild O, Kalwij J.M. & Hédli R. (2015): Seasonal effects of experimental litter removal in a central European forest ecosystem. *Applied Vegetation Science* 18: 569–578.
- Müllerová J., Hédli R. & Szabó P. (2015): Coppice abandonment and its implications for species diversity in forest vegetation. *Forest Ecology and Management* 343: 88–100.
- Müllerová J., Szabó P. & Hédli R. (2014): The rise and fall of traditional forest management in southern Moravia: A history of the past 700 years. *Forest Ecology and Management* 331: 104–115.
- Gilliam F. S., Hédli R., Chudomelová M., McCulley R. L. & Nelson J. A. (2014): Variation in vegetation and microbial linkages with slope aspect in a montane temperate hardwood forest. *Ecosphere* 5: art66.
- De Frenne P., et al. (2014): Plant movements and climate warming: intraspecific variation in growth responses to nonlocal soils. *New Phytologist* 202: 431–441.
- Baeten L., et al. (2014): A model-based approach to studying changes in compositional heterogeneity. *Methods in Ecology and Evolution* 5: 156–164.
- De Frenne P., et al. (2013): Microclimate moderates plant responses to macroclimate warming. *Proceedings of the National Academy of Sciences* 110: 18561–18565.
- Vild O., Roleček J., Hédli R., Kopecký M. & Utinek D. (2013): Experimental restoration of coppice-withstandards: Response of understorey vegetation from the conservation perspective. *Forest Ecology and Management* 310: 234–241.

- Szabó P. & Hédl R. (2013): Socio-economic demands, ecological conditions and the power of tradition: past decision making in woodland management in Central Europe. *Landscape Research* 38: 243–261.
- Kopecký M., Hédl R. & Szabó P. (2013): Non-random extinctions dominate plant community changes in abandoned coppices. *Journal of Applied Ecology* 50: 79–87.
- Altman J., Hédl R., Szabó P., Mazůrek P., Riedl V., Müllerová J., Kopecký M. & Doležal J. (2013): Tree-rings mirror management legacy: dramatic response of standard oaks to past coppicing in Central Europe. *PLOS ONE* 8: e55770.
- Volařík D. & Hédl R. (2013): Expansion to abandoned agricultural land forms an integral part of silver fir dynamics. *Forest Ecology and Management* 292: 39–48.
- Jamrichová E., Szabó P., Hédl R., Kuneš P., Bobek P., Pelánková B. (2013): Continuity and change in the vegetation of a Central European oakwood. *The Holocene* 23: 46–56.
- Verheyen K., et al. (2012): Driving factors behind the eutrophication signal in understorey plant communities of deciduous temperate forests. *Journal of Ecology* 100: 352–365.
- Szabó P. & Hédl R. (2011): Advancing the integration of history and ecology for conservation. *Conservation Biology* 25: 680–687.
- Hédl R., Petřík P. & Boublík K. (2011): Long-term patterns in soil acidification due to pollution in forests of the Eastern Sudetes Mountains. *Environmental Pollution* 159: 2586–2593.
- Hédl R., Kopecký M. & Komárek J. (2010): Half a century of succession in a temperate oakwood: from species-rich community to mesic forest. *Diversity and Distributions* 16: 267–276.
- Hédl R., Svátek M., Dančák M., Rodzay A. W., M. Salleh A. B. & Kamariah A. S. (2009): A new technique for inventory of permanent plots in tropical forests: a case study from lowland dipterocarp forest in Kuala Belalong, Brunei Darussalam. *Blumea* 54: 124–130.
- Hédl R. (2004): Vegetation of beech forests in the Rychlebské Mountains, Czech Republic, re-inspected after 60 years with assessment of environmental changes. *Plant Ecology* 170: 243–265.

## RESEARCH PROJECTS

- 2000: Chemistry of beech forests of the Rychlebské hory Mts. under the influence of industrial pollution; co-investigator. Funding by the Ministry of Education of the Czech Republic.
- 2001-2003: Monitoring of changes of plant communities regarding the management interventions in the Děvín Reserve, Pálava. Funding by the Ministry of Environment of the Czech Republic.
- 2003: Dynamics of soil properties of two mountainous areas since the 1940s; principal investigator. Funding by the Ministry of Education of the Czech Republic.
- 2004-2007: Vegetation of the Czech Republic: formalized typology, monograph and expert system. Funding by the Grant Agency of the Czech Republic.
- 2006-2008: Influence of different precipitation amounts on plants and soil processes of some grassland communities. Funding by the Grant Agency of the Czech Republic.
- 2006-2010: Interactions of fern growths and soil on deforested areas influenced with acid depositions; co-worker. Funding by the Grant Agency of the Academy of Sciences of the CR.
- 2007-2011: Limitations of the biodiversity conservation in a fragmented landscape. Funding by the Ministry of Environment of the Czech Republic.
- 2007-2011: Changes of alpine ecosystems in KRNAP, Králický Sněžník and CHKO Jeseníky in the context of global change; co-worker. Funding by the Ministry of Environment of the Czech Republic.
- 2008-2012: Lowland woodland in the perspective of the historical development, principal investigator. Funding by the Grant Agency of the Academy of Sciences of the CR.
- 2008-2012: Recent and historical changes of the Sudetian mountain peatbogs; co-investigator. Funding by the Grant Agency of the Czech Republic.
- 2009–2011: Vegetation of the Czech Republic: completion of the national survey of plant communities; co-investigator. Funding by the Grant Agency of the Czech Republic.
- 2012-2015: Coppice forests as the production and biological alternative for the future; co-investigator. Funding by the ESF.
- 2012-2015: Implementation of science and research in education; co-investigator. Funding by the ESF.
- 2012-2015: Pollen-based land-cover reconstruction - model testing and its implications for Holocene environmental change studies. Funding by the GA CR.
- 2012-2016: Long-term woodland dynamics in Central Europe: from estimations to a realistic model; working group leader. Funding by the ERC.
- 2017-2019: Humans as Nature: Anthropogenic legacy in temperate forest ecosystems; principal investigator. Funding by the GA CR.