Kamil Král (*1976)

Employer: The Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Departmant of Forest Ecology, Lidická 25/27, Brno, Czech Republic

Education

2005 Ph.D. in Ecology at Faculty of Forestry and Wood Technology, Mendel University of Agriculture and Forestry in Brno (Czech Republic);

2001 DESS (Diplôme d'Etudes Supérieures Spécialisées) in Remote Sensing (RS) and Geographical Information Systems (GIS) in Toulouse (France) - master's degree delivered by University of Paris VI;

1999 Ing. (M.Sc.) Mendel`s University of Agriculture and Forestry in Brno, Faculty of Forestry and Wood Technology; specialization: Forestry.

Jobs and positions

2006 – present The Silva Tarouca Research Institute for Landscape and Ornamental Gardening, p.r.i.; Department of Forest Ecology, Brno – senior researcher, head of the department since 2019.

2004 – 2006 Agency for Nature Conservation and Landscape Protection of the Czech Republic – researcher.

Research interest: Forest ecology; forests structure and dynamics; spatial patterns; remote sensing; terrestrial laser scanning; old-growth forests.

Selected scientific activities in the last 5 years:

- Principal investigator of bilateral CZ-SLO research project GA ČR Lead Agency (ARRS) 21-47163L;
- Principal investigator of bilateral CZ-US research project INTER-EXCELLENCE, Inter-Action LTAUSA18200;
- Principal investigator of GA ČR grant No. P504/15-23242S;
- Principal Investigator of Žofín Forest Dynamics Plot of ForestGEO research network (https://forestgeo.si.edu/sites/europe/zofin);
- Supervisor of 3 Ph.D. Thesis in the fields of Ecology and Applied geoinformatics, Faculty of Forestry and Wood Technology, MENDELU, Brno.

Publication record: 47 Publications - WoS (CC), **2221** total times cited, H-index **25**

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Five selected publications:

Chu, C. J., J. A. Lutz, **K. Král**, T. Vrska, X. Yin, J. A. Myers, I. Abiem, A. Alonso, N. Bourg, D. Burslem, M. Cao, H. Chapman, R. Condit, S. Q. Fang, G. A. Fischer, L. M. Gao, Z. Q. Hao, B. C. H. Hau, Q. He, A. Hector, S. P. Hubbell, M. X. Jiang, G. Z. Jin, D. Kenfack, J. S. Lai, B. H. Li, X. K. Li, Y. D. Li, J. Y. Lian, L. X. Lin, Y. K. Liu, Y. Liu, Y. H. Luo, K. P. Ma, W. McShea, H. Memiaghe, X.

C. Mi, M. Ni, M. J. O'Brien, A. A. de Oliveira, D. A. Orwig, G. G. Parker, X. J. Qiao, H. B. Ren, G. Reynolds, W. G. Sang, G. C. Shen, Z. Y. Su, X. H. Sui, I. F. Sun, S. Y. Tian, B. Wang, X. H. Wang, X. G. Wang, Y. S. Wang, G. D. Weiblen, S. J. Wen, N. X. Xi, W. S. Xiang, H. Xu, K. Xu, W. H. Ye, B. W. Zhang, J. X. Zhang, X. T. Zhang, Y. M. Zhang, K. Zhu, J. Zimmerman, D. Storch, J. L. Baltzer, K. J. Anderson-Teixeira, G. G. Mittelbach and F. L. He., 2019. Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. *Ecology Letters* 22(2): 245-255.

KRUCEK, M., J. TROCHTA, M. CIBULKA, **KRÁL K.**, 2019. Beyond the cones: How crown shape plasticity alters aboveground competition for space and light-Evidence from terrestrial laser scanning. *Agricultural and Forest Meteorology* 264: 188-199.

KRÁL K., DANĚK P., JANIK D., KRŮČEK M., VRŠKA T., 2018. How cyclical and predictable are Central European temperate forest dynamics in terms of developmental phases? *Journal of Vegetation Science* 29 (1): 84-97.

TROCHTA J., KRŮČEK M., VRŠKA T., **KRÁL K.**, 2017. 3D Forest: An application for descriptions of three-dimensional forest structures using terrestrial LiDAR. *PloS ONE* 12(5): e0176871.

KRÁL K. , VALTERA M. , JANIK D. , ŠAMONIL P. , VRŠKA T. , 2014. Spatial variability of general stand characteristics in central European beech-dominated natural stands – Effects of scale. *Forest Ecology and Management* 328: 353–364.

In Brno, 24th February, 2023