

Pavel ŠEBEK, RNDr., Ph.D.

Curriculum vitae

Born 1986 in Prague

Address:

Institute of Entomology, Biology Centre CAS, Branišovská 31 CZ-37005 České Budějovice, Czech Republic.
Phone: (+420) 387 775 352, Mobile: (+420) 723 599 309, E-mail: sebek@entu.cas.cz

RESEARCH INTERESTS

Pavel Šebek is the head of the Laboratory of Saproxylic Insects at the Institute of Entomology, Biology Centre CAS. His research interests are ecology, biodiversity and conservation of forest-associated insects, habitat requirements and feeding strategies of saproxylic beetles, management of woodland habitats, population ecology, and statistical modelling. He also participates on knowledge transfer from basic to applied research by engaging in communications between researchers and managers of protected areas and other stakeholders. He has supervised three doctoral students in entomology. He is a member of the Czech Entomological Society and Czech Society for Ecology.

EDUCATION

October 2011 – September 2016 – Doctoral study programme in Zoology at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic. *Title: The effect of different management strategies on the dynamics of saproxylic insect habitats*

October 2015 – RNDr. thesis in Zoology at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic. *Title: Contributions to the ecology of hollow dependent saproxylic beetles*

June 2008 – July 2011 – Master degree programme in Biology at Faculty of Science, Masaryk University, Brno, Czech Republic; *study field: Systematic Biology and Ecology*.

PROFESSIONAL EXPERIENCE

September 2016 – present – research scientist at Institute of Entomology, Biology Centre of the Czech Academy of Sciences, České Budějovice, Czech Republic.

January 2020 – June 2020 – 6 months post-doctoral internship at Department of Animal Ecology and Tropical Biology, Fabriksschleichach Field Station, Julius Maximilians University of Würzburg, Germany.

October 2011 – September 2016 – research assistant at Institute of Entomology, Biology Centre of the Czech Academy of Sciences, České Budějovice, Czech Republic.

September – December 2018 – 3 months internship at Irstea, Forest Ecosystems Research Unit, Nogent-sur-Vernisson, France.

January – February 2014 – 2 months internship at École d'Ingénieurs de Purpan / Dynafor INRA, Toulouse, France

September 2010 – April 2011 – research assistant at Cemagref (Institute for Engineering in Agriculture and Environment), Forest Ecosystems Research Unit, Nogent-sur-Vernisson, France.

PROJECTS AND GRANTS

Acquired grants:

2014 - Grant Agency of University of South Bohemia (GAJU): Disturbances and forest biodiversity: Response of different model groups to experimental coppicing in oak dominated forests. Grant No. 046/2014/P. Principal investigator.

2026-2028 – Czech Science Foundation (GAČR): Exploring feeding strategies of saproxylic beetles using diet tracing methods. Do primary consumers of deadwood exist among beetles?. Grant No. 26-20687S. Principal investigator.

PUBLICATIONS (selection)

In journals with IF – in total 36 articles, 664 citations, H-index=15

- Lanta V., **Sebek P.**, Kozel P., Altman J., Bace R., Chlumska Z., Cerny T., Dvorsky M.,... & Cizek L. (2025) Plant and saproxylic beetle dynamics during succession in lowland temperate broadleaf forests reveal only short periods of increased diversity. *Biological Conservation* 308: 111258.
- Franzén M., Jansson N.,... **Sebek P.**,... & Milberg P. (2025) Taxonomic and Trophic Groups Mediate Latitudinal Variation in Saproxylic Beetle Species Richness and Body Size Across Western Palaearctic Oak Forests. *Ecology and Evolution* 15: e71574.
- Kozel P., Lejeune B., Lepoint G., Drag L., Cizek L., **Sebek P.** (2025) Stable isotopes of saproxylic beetles reveal low differences among trophic guilds and suggest a high dependence on fungi. *Ecological Monographs* 95, e70002
- Perlik M., Ambrozova L., Jirku D., Jirku M., **Sebek P.** (2024) Microbiotope selection in saproxylic bees and wasps (Hymenoptera, Aculeata): cavity-nesting communities in forests and wooded pastures are affected by variation in openness but not deadwood. *Journal of Insect Conservation* 28: *in press*.
- Tinya F., Doerfler I., de Groot M.,... **Sebek P.**, et al. (2023) A synthesis of multi-taxa management experiments to guide forest biodiversity conservation in Europe. *Global Ecology and Conservation* 46: e02553.
- Sebek P.**, Cizek L., Hauck D., Miklin J., Konvicka O., Vodka S., Thorn S. (2022) Changes in β -diversity of saproxylic beetles along environmental gradients in temperate forests depend on species relative abundances. *Journal of Biogeography* 49: 551-562.
- Kozel P., **Sebek P.**, Platek M., Benes J., Zapletal M., Dvorsky M., Lanta V., Dolezal J., Bace R., Zbuzek B. (2021) Connectivity and succession of open structures as a key to sustaining light-demanding biodiversity in deciduous forests. *Journal of Applied Ecology* 58: 2951-2961.
- Weiss M., Kozel P., Zapletal M., Hauck D., Prochazka J., Benes J., Cizek L., **Sebek P.** (2021) The effect of coppicing on insect biodiversity. Small-scale mosaics of successional stages drive community turnover. *Forest Ecology and Management* 483: 118774.
- Miklín J., **Sebek P.**, Hauck D., Konvicka O., Cizek L. (2018) Past levels of canopy closure affect the occurrence of veteran trees and flagship saproxylic beetles. *Diversity and Distributions* 24: 208-218.
- Sebek P.**, Vodka S., Bogusch P., Pech P., Tropek R., Weiss M., Zimova K., Cizek L. (2016) Open-grown trees as key habitats for arthropods in temperate woodlands: The diversity, composition, and conservation value of associated communities. *Forest Ecology and Management* 380: 172-181.

Other publications

- Šebek P.** & Čížek L. (eds.) et al. (2024) Tradiční hospodaření v lesích a biodiverzita. Gevak, s. r. o., Věrovany, 127 pp. [Traditional woodland management and biodiversity.]
- Čížek L., Hauck D., Čamlík G., **Šebek P.** (2020) Ořezávané stromy - zapomenuté dědictví. Historie, současnost a význam v ochraně přírody. Agentura gevak s.r.o., 79 pp. [Pollard trees – forgotten legacy. History, present, and importance for nature conservation.]
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SUPERVISION ACTIVITIES

- Supervisor of 1 Bachelor student (2013 to 2015) and 2 Master students (2015 to 2017) at Faculty of Science, University of South Bohemia.
- Supervisor of 3 Doctoral students (2017 to 2024, and from 2026) at Faculty of Science, University of South Bohemia.
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