

# Curriculum vitae

**Pavel SEBEK, RNDr., Ph.D.**

Born 4th February 1986 in Prague

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## RESEARCH INTERESTS

Ecology, biodiversity and conservation of saproxylic insects, habitat requirements of model saproxylic beetle species, conservation management of woodland habitats, population ecology and modelling.

## EDUCATION

October 2011 – September 2016 – Doctoral study programme in Zoology at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic. *Thesis 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 CAS, Ceske Budejovice, Czech Republic.

October 2011 – September 2016 – research assistant at Institute of Entomology, Biology Centre CAS, Ceske Budejovice, Czech Republic, (2011-2015 part-time, from September 2015 full-time)

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

October – November 2009 – research assistant at Department of Botany and Zoology, Masaryk University, Brno, Czech Republic.

## Short internships

February – March 2014 – data analysis at Ecole d'Ingénieurs de Purpan, Toulouse, France.

## PROJECTS AND GRANTS

Acquired grant:

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.

Participation on projects of Lukáš Čížek (PI) funded by Czech Science Foundation (GA ČR) and on OP Interreg Slovenská Republika-Česká republika.

## PUBLICATIONS

- Kostanjsek F., **Sebek P.**, Baranova B., Seric Jelaska L., Riedl V., Cizek L. (*in press*) Size matters! Habitat preferences of the wrinkled bark beetle, *Rhysodes sulcatus*, the relict of European primeval forests. *Insect Conservation and Diversity*.
- 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.
- Tropek R., Černá I., Straka J., Kočárek P., Malenovský I., Tichánek F., **Šebek P.** (2016) In search for a compromise between biodiversity conservation and human health protection in restoration of fly ash deposits: Effect of anti-dust treatments on five groups of arthropods. *Environmental Science and Pollution Research*, 23: 13653-13660.
- Sebek P.**, Bace R., Bartos M., Benes J., Chlumska Z., Dolezal J., Dvorsky M., Kovar J., Machac O., Mikatova B., Perlik M., Platek M., Polakova S., Skorpik M., Stejskal R., Svoboda M., Trnka F., Vlasin M., Zapletal M. & Cizek L. (2015) Does a minimal intervention approach threaten the biodiversity of protected areas? A multi-taxa short-term response to intervention in temperate oak-dominated forests. *Forest Ecology and Management* 358: 80-89.
- Goux N., **Sebek P.**, Valladares L., Brustel H. & Brin A. (2015) Habitat requirements of the violet click beetle (*Limoniscus violaceus*), an endangered umbrella species of basal hollow trees. *Insect Conservation and Diversity* 8: 418-427.
- Tropek R., Cerna I., Straka J., Kadlec T., Pech P., Tichanek F., **Sebek P.** (2014) Restoration management of fly ash deposits crucially influence their conservation potential for terrestrial arthropods. *Ecological Engineering* 73: 45-52.
- Sebek P.**, Altman J., Platek M., Cizek L. (2013) Is active management the key to the conservation of saproxylic biodiversity? Pollarding promotes the formation of tree hollows. *PLoS ONE* 8: e60456.
- Sebek P.**, Barnouin T., Brin A., Brustel H., Dufrene M., Gosselin F., Meriguet B., Micas L., Noblecourt T., Rose O., Velle L., Bouget, C. (2012) A test for assessment of saproxylic beetle biodiversity using subsets of "monitoring species". *Ecological Indicators* 20: 304-315.

### Popularization article

- Šebek P.**, Kozel P., Čížek L., Beneš J., Doležal J., Miklín J., Škorpík M., Stejskal R. (2016) Kácením v národním parku k podpoře biodiverzity. Vliv cíleného prosvětlování lesa na společenstva hmyzu, obratlovců a rostlin. *Živa* 2016, 4: 179-183.

### Technical publications

- Čížek L., **Šebek P.**, Bače R., Beneš J., Doležal J., Dvorský M., Miklín J., Svoboda M. (2016) Metodika péče o druhově bohaté (světlé) lesy. Certifikovaná metodika. Ministerstvo životního prostředí České republiky.

- Čížek L., Šebek P., Hauck D., Foltan P., Okrouhlík J. (2015) Management populací evropsky významných druhů hmyzu v České republice: Páchník hnědý (*Osmoderma eremita*). Certifikovaná metodika. Agentura ochrany přírody a krajiny České republiky.
- Čížek L., Šebek P., Hauck D., Foltan P., Okrouhlík J. (2015) Management populací evropsky významných druhů hmyzu v České republice: Kovařík fialový (*Limonicus violaceus*). Certifikovaná metodika. Agentura ochrany přírody a krajiny České republiky.

#### **Conference contributions** (selection)

- Sebek P. et al. – Felling for biodiversity - the effect of canopy opening on communities of insects, vertebrates and plants in temperate oak-dominated forests. *2nd International Conference on Forests, 26-29 April 2017, Neuchönau, Germany*. (oral presentation)
- Sebek P. et al. – Pollarding as a management tool in the conservation of tree hollow fauna. *Intecol 2013, 18-23 August 2013, London, UK*. (oral presentation)
- Sebek P. et al. – Effect of active conservation management on biodiversity: Multi-taxa survey in oak woodlands of Podyji National Park, Czech Republic. *Open Landscapes, 29 September - 3 October 2013, Hildesheim, Germany*. (oral presentation)

#### **Supervision activities**

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

#### **Professional membership**

- Member of the Czech Society for Ecology (Česká společnost pro ekologii).