

# Milos Sevarika

## EDUCATION AND TRAINING

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### [ 01/11/2018 - Current ] PhD studies

University of Perugia

Address: Perugia, Italy

Thesis: Intraspecific chemical communication of spittlebugs: morphology and chemical ecology of *Philaenus spumarius*

Main subject / occupational skills covered:

Usage of Scanning and Transmission electron microscope, Focused-ion beam electron microscope, confocal laser scanning electron microscope, fluorescence microscope, ultrastructural organization of insect's sensilla and exocrine glands, insects neuroanatomy, image processing and analysis, 3D reconstruction, collecting head-space volatiles, insects behavioural investigations (open arena and Y-tube olfactometer), analysis of insects behaviour, insects dissection, immunocytochemistry, antennal backfills staining, single sensillum backfills staining, statistical analysis, development of a new behavioural methods, insects vibrational communication, insects vibrational playback with mini-shaker, usage of laser doppler vibrometer, analysis of vibrational signals.

### [ 15/07/2021 - 15/10/2021 ] Neurobiology of *Philaenus spumarius* (Erasmus)

University of Konstanz

Address: Konstanz, Germany

Main subject / occupational skills covered:

Insects neuroanatomy, brain dissection, immunocytochemistry, usage of confocal laser scanning electron microscope, antennal backfills, single-sensillum backfills staining, 3D reconstruction with various software.

### [ 01/08/2020 - 31/10/2020 ] Neuroanatomy of *Philaenus spumarius* (Erasmus)

University of Konstanz

Address: Konstanz, Germany

### [ 06/2019 - 08/2019 ] Vibrational communication of insects

National institute of biology

Address: Ljubljana, Slovenia

Main subject / occupational skills covered:

Insects vibrational communication, usage of laser doppler vibrometer, inducing vibrations with mini-shaker, audio analysis.

### [ 2016 - 2018 ] Master of Science in Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops

CIHEAM Bari

Address: Bari, Italy

Main subject / occupational skills covered:  
Insects reading, measuring genetic variation of an organism, insects behavioural investigations, insects tri-trophic interactions.

[ 05/2017 ] Developing phytosanitary capacity

FAO/IPPC and CIHEAM Bari

Address: Bari, Italy

Main subject / occupational skills covered:

Analysing the major routes of invasive pest introduction, pest risk assessment, identification of stakeholders involved for pest management, establishment of a contingency plan for a country

[ 2012 - 2016 ] Bachelor of Agriculture Engineering for Plant Production - Plant Protection

University of Banja Luka

Address: Banja Luka, Bosnia and Herzegovina

Main subject / occupational skills covered:

Bark beetles monitoring, application of entomopathogenic nematodes, DNA extraction, artificial pollination.

LANGUAGE SKILLS

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Mother tongue(s): Serbian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Italian

LISTENING B1 READING A2 WRITING A2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

DIGITAL SKILLS

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My Digital Skills

Statistics in R | InDesign | 3d Reconstruction

Microscopy

Scanning Electron Microscopy | Transmission Electron Microscopy | Confocal microscope | Focused Ion Beam

Image analysis

Dragonfy | ImageJ | Amira | Photoshop | Illustrator | CorelDraw Graphics Suite

PUBLICATIONS

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[ 2021 ]

Antennal sensory organs and glands of the harlequin ladybird, *Harmonia axyridis*

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/eea.12948>

[ 2021 ]

Fine morphology of antennal and ovipositor sensory structures of the gall chestnut wasp, *Dryocosmus kuriphilus*

<https://www.mdpi.com/2075-4450/12/3/231/htm>

[ 2021 ]

Genetic variation in the behavioural mechanisms involved in the response of the egg parasitoid *Trissolcus brochymenae* to contact chemical cues left by the pest *Murgantia histrionica*

<https://onlinelibrary.wiley.com/doi/epdf/10.1111/een.12945>

[ 2022 ]

Behavioural and electrophysiological responses of *Philaenus spumarius* to odours from conspecifics

<https://doi.org/10.1038/s41598-022-11885-3>

[ 2022 ]

Morpho-functional analysis of the head glands in three Auchenorrhyncha species and their possible biological significance

<https://doi.org/10.1101/2022.03.03.482260>

## CONFERENCES AND SEMINARS

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[ 30/11/2020 - 04/12/2020 ] XI European PhD Network "Insect Science" Online

[ 07/06/2021 - 11/06/2021 ] XXVI Congresso Nazionale Italiano di Entomologia Online

[ 09/09/2019 - 13/09/2019 ] 6th International Entomophagous Insects Conference Perugia, Italy

[ 02/03/2015 - 06/03/2015 ]

IV International Symposium and XX Scientific-Professional Conference of Agronomists of Republic of Srpska

Bijeljina, Bosnia and Herzegovina

[ 03/11/2015 - 05/11/2015 ] 12th Plant Protection Symposium in Bosnia and Herzegovina Mostar, Bosnia and Herzegovina

## HONOURS AND AWARDS

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Honours and awards

Scholarship of Ministry of Education and Culture of Republic of Srpska in 2013 and 2014 years

## ORGANISATIONAL SKILLS

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Organisational skills

Excellent organizational and communicational skills gain during organization of the first "Let's do it - clean the world in one day" in Bosnia and Herzegovina,

Students visit to the IV International Symposium and XX Scientific-Professional Conference of Agronomists of Republic of Srpska 2015

Students visit to the 12<sup>th</sup> Plant Protection Symposium in Bosnia and Herzegovina in 2015

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

Capability to work in an international team.

Excellent communication and presenting skills made during several projects.

Able to create positive and engaging atmosphere in working group. Good adaptation in stress situation and experience in delegating responsibilities.

Actively involved during work and in presenting personal ideas.

Good in taking personal responsibilities.

## OTHER SKILLS

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### Other skills

Insects rearing,

Bark beetle monitoring,

Sampling and extraction of phytophagous nematodes,

Behavioural ecology of insects,

Artificial plant pollination,

Mountaineering, climbing, macro photography

## COURSES

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[ 2017 - 2017 ] Training of Trainers - CropLife Africa Middle East

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Perugia, 11/08/2022

Milos Sevarika