



ONDŘEJ MOTTL

b. 23 July 1990, CZ

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FIELD WORK

Extensive experience in quantitative canopy insect sampling and behavioural tests

STATISTICS

Advanced Mixed effect models, null models, multivariate analysis

IDENTIFICATION SKILLS

Good general knowledge of invertebrates, specialized in Formicidae (PNG)

MOLECULAR METHODS

DNA extraction, PCR

SOFTWARE

Statistics and community analysis: R, CANOCO, Statistica, EstimateS, Graphical tools: GIMP, Inkscape, Others: Microsoft Office, SQL database

COMMUNICATION & OUTREACH

Czech, English, German, TokPisin (Papua New Guinea pidgin)

Invited speaker at KuchaPecha (event to share personal presentations about work)

Organisation of student festival Vítání prváků (cultural festival for freshman), České Budějovice, 2014

EDUCATIONAL BACKGROUND

Ph.D. in Entomology 2015 – PRESENT

University of South Bohemia.

Spatial structure and community dynamics of arboreal ants in a tropical rainforest. Supervisor: RNDr. Petr Klimeš Ph.D. (scheduled to defend in November)

M.Sc. in Zoology 2013 – 2015

University of South Bohemia. Honours.

Structure and dynamics of arboreal ant communities along successional gradient in a mountain tropical forest of New Guinea. Awarded by Dean's prize, Supervisor: RNDr. Petr Klimeš.

B.Sc. in Biology 2010–2013

University of South Bohemia.

Detection of UV-fluorescent-marked prey in the guts of predators and scavengers, dynamics of scavenging in a model experiment. Supervisor: RNDr. Pavel Foltan Ph.D.

PROFESSIONAL EXPERIENCE

Ph.D. study 2015 – PRESENT

Institute of Entomology Biology Centre CAS

Leading field sampling of arboreal ants 2019

Nditam, Cameroon

Conducting field experiments on ERC project of V. Novotny "Ecological determinants of tropical-temperate trends in insect diversity" (6 weeks)

Data Analysis 2017 – 2018

Mobility Plus project (PIs: P. Klimes and M. Leponce)

Visit of laboratory of Biodiversity Monitoring & Assessment at RBINS, Belgium (6 weeks)

Field experiments on tri-trophic interactions 2018

EuCFACE – WSU, Australia

Conducting field experiments on ERC project of K. Sam "Why is the world green: testing top-down control of plant-herbivore food webs by experiments with birds, bats and ants" (2 months)

Fellowship 2017

Smithsonian Institution Conservation and Research Center, Virginia, USA (2 months)

Leading field project focused on arboreal ant ecology 2016

Binatang research centre, PNG (6 months)

Student supervision 2016 – 2019

Martin Brožák (B.Sc. thesis). *Effect of succession, stratification and time on ant community in tropical lowland forest* (In Czech).

INTERNATIONAL CONFERENCES

Association for Tropical Biology and Conservation (ATBC)

Kuching, (oral): *Ant mosaics in tropical forests: Finding drivers of spatial structure*

European Conference of Tropical Ecology (GTO)

Brussels (oral): *Ant mosaics in tropical lowland forests: Take a look at a bigger scale*

European Conference of Tropical Ecology (GTO)

Göttingen (oral): *The low effect of forest succession on arboreal ant communities in a tropical mountain forest in New Guinea*

PUBLICATIONS

2019 *Experiments with artificial nests provide evidence for ant community stratification and nest site limitation in a tropical forest.* *Biotropica* (In Press). DOI: 10.1111/btp.12684.

Mottl, O., J. Yombai, T. M. Fayle, V. Novotny, and P. Klimes.

Secondary succession has surprisingly low impact on arboreal ant communities in tropical montane rainforest. *Ecosphere* 10 (8): e02848.

Mottl, O., N. S. Plowman, V. Novotny, B. Gewa, M. Rimandai, and P. Klimes.

Quantitative assessment of plant–arthropod interactions in forest canopies: a plot-based approach. *PLOS one* (accepted)

Martin V., P. Klimeš, G.P.A. Lamarre, C. M. Redmond, C. L. Seifert, T. Abe, J. Auga, K. Anderson–Teixeira, Y. Basset, S. Beckett, P. T. Butterill, P. Drozd, E. Gonzalez–Akre, O. Kaman, N. Kamata, B. Laird–Hopkins, M. Libra, M. Manumbor, S. E. Miller, K. Molem, O. Mottl, M. Murakami, T. Nakaji, N. S. Plowman, P. Pyszko, M. Šigut, J. Šipoš, R. Tropek, G. D. Weiblen, and V. Novotny.

2015 *Tajemství pestrosti společenstev mravenců v korunách tropických stromů, Živa 4: 179–182.*

Klimes P., O. Mottl.

Unpublished *Nest microhabitats and tree size drive ant community structure across elevation in tropical rainforest canopies.* *Ecography* (in review)

Plowman, N. S., O. Mottl, V. Novotny, M. Rimandai, F. Kassar, C. Idigel, and P. Klimes.

Ant mosaics in primary forest canopies are driven by interspecies behaviour. (Manuscript to be submitted to *Journal of Animal Ecology*)

Mottl, O., J. Yombai, V. Novotný, M. Leponce, G. D. Weiblen, P. Klimeš.

Spatial segregation of guilds in arboreal arthropod communities. (Manuscript to be submitted to *Ecology letters*)

Mottl, O., P. Fibich, P. Klimes, M. Volf, J. Auga, K. Anderson–Teixeira, P. Butterill, T. Blair, G. Carscadden, E. Gonzalez–Akre, A. Goodman, G. Lamarre, M. Libra, M.E. Losada, M. Manumbor, S.E. Miller, K. Molem, G. Nichols, N.S. Plowman, C. Redmond, C. Seifert, R. Tropek, G.D. Weiblen, V. Novotný.

Functional structure of ant assemblages along a wide elevation gradient. (Manuscript to be submitted to *Journal of Biogeography*)

Jacquemin J., O. Mottl, P. Klimes, N.S. Plowman, M. Leponce.

Comparing facets of avian alpha- and beta- diversity along a tropical elevational gradient provides insights into community assembly processes. (Manuscript to be submitted to *Ecology and Evolution*)

Hazell, R. J., O. Mottl, J. Tobias, B. Koane, S. Yama, L. Paul, K. Sam, A. J. A. Stewart, M. R. Peck.

GRANTS & AWARDS

2019 2nd place for Best student presentation

Ph.D. Conference of the University of South Bohemia, České Budějovice

2018 Czech IBERA grant

International conference attendance

The best student presentation

Ph.D. Conference of the University of South Bohemia, České Budějovice.

Best student presentation

Zoological days, Prague

2016 Best student poster

Zoological days, České Budějovice