Christophe Dominik

Theodor-Lieser-Strasse 4, 06120 Halle, Germany

🗷 christophe.dominik@ufz.de | 🔏 Homepage | 🞓 Google Scholar | 🖪 ResearchGate | 📵 Publons | 💆 Twitter | 10.11.1985 | Married





Summary _____

Practical experience in landscape ecology, agroecology, community ecology and ecosystem services. 10+ years experience in geographical information systems (GIS) and statistical software (R). 5+ year experience in field work and identification of arthropods. 1+ year abroad work experience (Philippines). Strong interests in landscape ecology, biological control, pollination services, gut microbiome, community ecology, ecosystem services, R and data visualization.



Education

Martin Luther University Halle-Wittenberg

Dr. rer. nat. | Magna Cum Laude Université de La Réunion Halle (Saale), Germany

Saint-Denis, Réunion Island

MASTER OF SCIENCE IN BIODIVERSITY AND TROPICAL ECOSYSTEMS

Nancy, France

Université Henri-Poincaré (UHP Nancy-1)

BACHELOR OF SCIENCE IN BIOLOGY OF ORGANISMS AND POPULATIONS

2009



Research Experience

Helmholtz-Zentrum für Umweltforschung (UFZ)

Halle (Saale), Germany

Jan. 2019 - present

POSTDOCTORAL RESEARCHER | DEPARTMENT OF COMMUNITY ECOLOGY (BZF)

P.I.: Schweiger O. | Main projects: PoshBee, VOODOO, INTERCEDE, iNTERACT, Safeguard

- Mapping and classification of > 200 study sites using ArcGIS Pro.
- Fieldwork including nectar/haemolymph extraction, pollinator sampling, beekeeping activities, bumblebee experiments, pitfall traps.
- P.I. of a third funded project iNTERACT.
- Co-P.I. and WP leader of the INTERCEDE project.
- Project budget management.
- · Supervision of PhD students, Master students and scientific staff.

Helmholtz-Zentrum für Umweltforschung (UFZ)

Leipzig, Germany

PHD STUDENT/GUEST SCIENTIST | DEPARTMENT OF COMPUTATIONAL LANDSCAPE ECOLOGY (CLE)

Jul. 2012 - Dec. 2018

Supervisors: Seppelt R. and Václavík T. | Main project: LEGATO

- Mapping and classification of 30 study sites using ArcGIS 10.
- · Landscape heterogeneity quantification via the calculation of landscape metrics (Fragstats).
- Supervision of technical staff.

International Rice Research Institute (IRRI)

Los Baños Laguna, Philippines

Jun. 2013 - Sep. 2014

GUEST SCIENTIST | CROP AND ENVIRONMENTAL SCIENCES DIVISION (CESD)

Advisor: Horgan F.G. | Main project: LEGATO

- Sampling and identification of arthropods (~80000 individuals) to morphospecies level (~200 species).
- Supervision of field work assistants in the mountainous region of the Philippines.

Centre national de la recherche scientifique (CNRS)

Nantes, France

RESEARCH ASSISTANT | LITTORAL, ENVIRONNEMENT, GÉOMATIQUE, TÉLÉDÉTECTION (UMR LETG)

Mar. 2012 - Jun. 2012

Supervisor: Godet L. | Main project: ECOSAL ATLANTIS

- Bird counts of common European passerine birds in salinas during a two weeks period.
- Mapping of the salinas located in Ré Island using ArcView 3.1 and calculation of landscape metrics (Fragstats).

Centre national de la recherche scientifique (CNRS)

Nantes, France

Undergraduate Research student | Littoral, Environnement, Géomatique, Télédétection (UMR LETG) Supervisor: Godet L. | M.Sc.2 Thesis grade: 16.67/20 Rank: 2/17 | Main project: ECOSAL ATLANTIS Feb. 2011 - Jun. 2011

Material/Methods and analysis similar to the research experience carried out in 2012 at the CNRS (see above).

Centre de coopération internationale en recherche agronomique pour le développement

Saint-Pierre, Réunion Island

Undergraduate Research student | Peuplements végétaux et bio-agresseurs en milieu tropical (UMR PVBMT) Supervisor: Quilici S. | M.Sc.1 Thesis grade: 15.73/20 Rank: 5/35

Jan. 2010 - Jun. 2010

- · Semi-field experiments: Infestation of four plant species within the Rosacea family with 40 larvae of C.janthina.
- Daily survival monitoring and GLM analysis to test the food specificity of C. janthina on Rosacea plants.

Presentations

INTERNATIONAL CONFERENCES

SCAPE - Scandinavian Association of Pollination Ecology - Annual Meeting

Höör, Sweden

Papanikolaou A.D., Kühn I., Frenzel M., ..., **Dominik C.**, ..., Potts S.G., Roberts S.P.M., Schweiger O.

Oct. 2019

Poster: Wild bee and floral diversity co-vary in response to the direct and indirect impacts of land use.

GfÖ - Ecological Society of Germany, Austria, and Switzerland - Annual Meeting

Vienna, Austria

DOMINIK C., HORGAN F.G., SETTELE J., SEPPELT R., VÁCLAVÍK T.

Sep. 2018

Talk: Landscape composition, configuration, and trophic interactions shape arthropod communities in rice agro-ecosystems.

GfÖ - Ecological Society of Germany, Austria, and Switzerland - Annual Meeting

Göttingen, Germany Sep. 2015

DOMINIK C., VÁCLAVÍK T., HORGAN F.G., SETTELE J., SEPPELT R. Talk: Effects of landscape structures on rice agroecosystem biodiversity and biological control across the Philippines.

FONA - Sustainable Land Management - Status Conference

Berlin, Germany

DOMINIK C., VÁCLAVÍK T., HORGAN F.G., SETTELE J., SEPPELT R.

Apr. 2013

Talk: The effects of landscape heterogeneity on the biocontrol-production function in the rice dominated agroecosystems.

PROJECT'S ANNUAL GENERAL MEETINGS (AGM)

Safeguard - AGM Online

DOMINIK C., & SCHWEIGER O.

Jan. 2022

Talk: Introduction on how to analyse the impact of landscape structure on pollinator movement and plant reproduction

PoshBee - AGM Online **DOMINIK C., & SCHWEIGER O.**

Talk: Can we predict pesticide application within the PoshBee site network?

PoshBee - AGM Marseille, France

DOMINIK C., & SCHWEIGER O.

LEGATO - AGM

LEGATO - AGM

Jan. 2020

Talk: Characterization of the landscape structure within the site network: update, status, and next steps

LEGATO - AGM Banaue, Philippines

DOMINIK C., HORGAN F.G., SETTELE J., SEPPELT R., VÁCLAVÍK T.

Aug. 2016

Talk: The effects of landscape heterogeneity on arthropod communities in rice agro-ecosystems.

Yoqyakarta, Indonesia

DOMINIK C., VÁCLAVÍK T., HORGAN F.G., SETTELE J., SEPPELT R.

Mar. 2015

Talk: The effects of landscape heterogeneity on the biocontrol-production function in the rice dominated agroecosystems.

Hanoi, Vietnam

DOMINIK C., VÁCLAVÍK T., HORGAN F.G., SETTELE J., SEPPELT R.

Feb. 2013

Talk: The effects of landscape heterogeneity on the biocontrol-production function in the rice dominated agroecosystems.

Research Grants and Funding

iDiv Flexpool Support Fund call

10k FUR

CONSUMABLES FOR GUT MICROBIOME ANALYSES, PATHOGEN SCREENING, AND IMAGING FLOW CYTOMETRY | P.I.

2021

UFZ TB Support Fund

UFZ TB PhD consortium

5k EUR

CONSUMABLES FOR GUT MICROBIOME ANALYSES, PATHOGEN SCREENING, AND IMAGING FLOW CYTOMETRY | P.I.

2021

INTERCEDE PROJECT | CO-P.I. AND WP LEADER

Three PhD positions

FEBRUARY 3, 2022

CHRISTOPHE DOMINIK · CV

HIGRADE funding 500 EUR

EXTERNAL COURSE AND TRAVEL COSTS

Professional Activities and Memberships

RESEARCH PROJECTS

Safeguard ☑ : Safeguarding European wild pollinators

INVOLVED SCIENTIST

Horizon 2020 2021 - present

INTERACT: Impacts of landscape structure, floral resources and land-use intensity on the health of beneficial arthropods in agroecosystems

iDiv and UFZ support funds

PRINCIPAL INVESTIGATOR

WP LEADER AND CO-P.I.

2021

INTERCEDE 🗹 : Interactions of farmland biodiversity and agricultural ecosystem services under climate change

UFZ

2014

VOODOO ☑ : Viral eco-evolutionary dynamics of wild and domestic pollinators under global change

2020 - present **BiodivERsA**

2020 - present

PoshBee 🗹 : Pan-european assessment, monitoring, and mitigation of stressors on the health of bees INVOLVED SCIENTIST

Horizon 2020 2019 - present

LEGATO ☑ : Land-use intensity and ecological engineering - Assessment tools for risks and opportunities in irrigated rice based production systems

BMBF

INVOLVED SCIENTIST, PHD STUDENT

2011 - 2016

ECOSAL-ATLANTIS: Ecotourism in the Atlantic salt-marshes: a strategy for integral and sustainable development

INTFRRFG

INVOLVED UNDERGRADUATE, MASTER STUDENT

2007 - 2013

PEER-REVIEWS

Journals N = 34 completed reviews of 25 manuscripts

Landscape Ecology (12), Agriculture Ecosystems & Environment (5), Paddy and Water Environment (3), Journal of Applied Ecology (2), Ecology and Evolution (2), BMC Ecology (2), Basic and Applied Ecology (2), Philosophical Transactions of the Royal Society B (2), Environmental Research Letters (1), Journal of Insect Conservation (1), Insects (1), Scientific Reports (1).

Proposals iDiv Flexpool (2).

PROFESSIONAL MEMBERSHIPS

Gesellschaft für Ökologie (GfÖ), British Ecological Society (BES), Société Française d'Écologie (SFE).

■ Professional Outreach

MEDIA INTERVIEWS

Viren bedrohen die Welt der Insekten

MDR Sachsen

Jul. 2020

PRESS & BLOGS

LINK TO THE ARTICLE 🖸

Better many small than a few large: how landscape configuration affects arthropod communities in rice agroecosystems LINK TO THE ARTICLE 🗗

The Applied Ecologist's Blog

Aug. 2018



Professional Supervision _

PHD STUDENTS

Heuschele Jonna, Martin Luther University Halle-Wittenberg, Germany Main supervisor 2020 - present

THE EFFECTS OF LANDSCAPE HETEROGENEITY AND CROP DIVERSITY ON BIOLOGICAL PEST CONTROL AND POLLINATOR HEALTH

Liu Yicong, Martin Luther University Halle-Wittenberg, Germany

Co-supervisor

2020 - present

POLLINATOR-PLANTS TRAIT MATCHING; POLLEN AND NECTAR QUALITY; LANDUSE EFFECTS ON NETWORKS RESILIENCE

MASTER STUDENTS

Wogram Simon, Martin Luther University Halle-Wittenberg, Germany Co-supervisor POLLINATOR MOVEMENT AND PLANT REPRODUCTION ALONG MULTIPLE LANDSCAPE GRADIENTS	2022 - present
Leyrer Dorothea, Friedrich Wilhelm University of Bonn, Germany Main supervisor The effects of landscape structure, floral resources and diet on the foraging behaviour and colony PERFORMANCE OF BUMBLEBEES	2021 - 2022
Slivensky Cassidy, University of Bremen, Germany The effects of Landscape structure and diet on the health of carabids in OSR dominated Landscapes	2021 - 2022
BACHELOR STUDENTS	

Priese Carlotta, Weihenstephan-Triesdorf University, Germany

Co-supervisor

2020 - 2021

Professional Skills

General: Experience in leading and managing multiple interdisciplinary projects, and in supervising staff, doctoral and master students.

Practical experience in experimental design, field sampling, and statistical analyses.

Software: R, ArcGIS 3.1/9/10/Pro, Fragstats, Adobe CS5, Markdown, GitHub.

Statistical analyses: ANOVA, LM/LME/GLS/GLM/GLMM, dissimilarity matrices, RLQ, 4th-corner, SEM.

Sampling methods: Sweep-net, suction sampler (blow-vac), pitfall traps, color plates, exclusion nets, point counts.

Pollinators: Pollinator-plant networks, haemolymph and nectar extraction, colony performance and fitness assessment.

Bumblebee colony set-up, pollen collection.

Fauna identification: Tropical rice-arthropods, European arthropods: hemipteran, heteropteran, lepidopteran, bombus.

European passerine birds, tropical passerine birds (La Réunion Island).

Languages: French (Mother tongue), English (Proficient), German (B1).

Publications ___

PEER-REVIEW ARTICLES

• First author: 4/6 (67 %) • Last author: 0/6 (0 %)

- 6. Dominik C., Seppelt R., Horgan F.G., Settele J., & Václavík T. (2022). Landscape heterogeneity filters functional traits of rice arthropods in tropical agroecosystems. Ecological Applications, e2560. https://doi.org/10.1002/eap.2560
- 5. Vanderplanck M., Michez D., Albrecht M., ..., Dominik C., ..., Toktas Y., & Maxence G. (2021). Monitoring bee health in European agro-ecosystems using wing morphology and fat bodies. One Ecosystem 6: e63653. https://doi.org/10.3897/oneeco.6.e63653
- 4. Settele J., Heong K.L., Kühn I., ..., Dominik C., ..., Zhu Z., & Wiemers M. (2018). Rice Ecosystem Services in South-East Asia. Paddy and Water **Environment**, 16: 211-214.

https://doi.org/10.1007/s10333-018-0656-9

- 3. Dominik C., Seppelt R., Horgan F.G., Settele J., & Václavík T. (2018). Landscape composition, configuration, and trophic interactions shape arthopod communities in rice agro-ecosystems. Journal of Applied Ecology, 55: 2461-2472. https://doi.org/10.1111/1365-2664.13226
- 2. Dominik C., Seppelt, R., Horgan F.G., Marquez L., Settele J., & Václavík T. (2017). Regional-scale effects override the influence of fine-scale landscape heterogeneity on rice arthropod communities. Agriculture, Ecosystems & Environment, 246: 269–278. https://doi.org/10.1016/j.agee.2017.06.011
- 1. Dominik C., Ménanteau L., Chadenas C., & Godet L. (2012). The influence of salina landscape structures on terrestrial bird distribution in the Guérande basin (Northwestern France). Bird Study, 59: 483-495. https://doi.org/10.1080/00063657.2012.715279

IN REVIEW/PREPARATION

1. Gérard M., Baird E., Breeze T., Dominik C., & Michez D. Impact of crop exposure and agricultural intensification on the phenotypic variation of bees. (in revisions)

THESES

- 2. **Dominik C. (2019)**. The effects of landscape heterogeneity on arthropod communities in rice agro-ecosystems. Doctoral Thesis, Martin-Luther-Universität Halle-Wittenberg. http://dx.doi.org/10.25673/13861
- 1. **Dominik C. (2011)**. Influence des structures spatiales des marais salants sur les communautés d'oiseaux terrestres. Master Thesis, Université de La Réunion. Link to the thesis