Christophe Dominik

Theodor-Lieser-Strasse 4, 06120 Halle, Germany

♥ @HopperDominik | 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

Université Henri-Poincaré (UHP Nancy-1)

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

Saint-Denis, Réunion Island

Nancy, France

2009



Research Experience

MASTER OF SCIENCE IN BIODIVERSITY AND TROPICAL ECOSYSTEMS

BACHELOR OF SCIENCE IN BIOLOGY OF ORGANISMS AND POPULATIONS

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 > 100 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-coordinator 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 Jul. 2012 - Dec. 2018

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

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

Mar. 2012 - Jun. 2012

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

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 ____

Scandinavian Association of Pollination Ecology (SCAPE) 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.

Ecological Society of Germany, Austria, and Switzerland (GfÖ) 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.

Rice Ecosystem Services in South-East Asian Landscapes - LEGATO final conference

Banaue, Philippines

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

Aug. 2016

Talk: Rice Ecosystem Services in South-East Asian Landscapes - LEGATO final conference

Ecological Society of Germany, Austria, and Switzerland (GfÖ) 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.

Rice Ecosystem Services in South-East Asian Landscapes – a LEGATO conference

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.

Sustainable Land Management (FONA) 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.

Ecological Engineering in Asian Rice Landscapes - a LEGATO conference

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 EUR

CONSUMABLES FOR GUT MICROBIOME ANALYSES, PATHOGEN SCREENING, AND IMAGING FLOW CYTOMETRY | COORDINATOR

2021 5k EUR

CONSUMABLES FOR GUT MICROBIOME ANALYSES, PATHOGEN SCREENING, AND IMAGING FLOW CYTOMETRY | COORDINATOR

Three PhD positions

INTERCEDE PROJECT | CO-COORDINATOR AND WP LEADER

2019

HIGRADE funding

500 FUR

EXTERNAL COURSE AND TRAVEL COSTS

UFZ TB Support Fund

UFZ TB PhD consortium

2014

Professional Activities and Memberships.

RESEARCH PROJECTS

Safeguard: Safeguarding European wild pollinators

INVOLVED SCIENTIST

Horizon 2020 2021 - present

UF7

interact: Impacts of landscape structure, floral resources and land-use intensity on the health of

beneficial arthropods in agroecosystems

PRINCIPAL INVESTIGATOR

iDiv and UFZ support funds

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

change

WP LEADER AND CO-COORDINATOR

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

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

INVOLVED SCIENTIST

LEGATO: Land-use intensity and ecological engineering - Assessment tools for risks and opportunities in

irrigated rice based production systems

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

development

INVOLVED UNDERGRADUATE, MASTER STUDENT

2019 - present **BMBF**

2020 - present

Biodiversa

2020 - present

Horizon 2020

2011 - 2016

INTERREG

2007 - 2013

PEER-REVIEW JOURNALS

INVOLVED SCIENTIST, PHD STUDENT

Since 2016 N = 28 completed reviews of 20 manuscripts

Landscape Ecology (11), Agriculture Ecosystems & Environment (3), Paddy and Water Environment (3), Journal of Applied Ecology (2), Ecology and Evolution (2), BMC Ecology (2), Basic and Applied Ecology (2), Journal of Insect Conservation (1), Insects (1), Scientific Reports

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

Aug. 2020

PRESS & BLOGS

LINK TO THE ARTICLE

LINK TO THE ARTICLE

Better many small than a few large: how landscape configuration affects arthropod communities in rice agroecosystems

The Applied Ecologist's Blog

Aug. 2018

Professional Supervision

PHD STUDENTS

Heuschele Jonna, Martin Luther University Halle-Wittenberg, Germany

| Main supervisor

2020 - present

Liu Yicong, Martin Luther University Halle-Wittenberg, Germany

| Co-supervisor

2020 - present

MASTER STUDENTS

Leyrer Dorothea, Friedrich Wilhelm University of Bonn, Germany

| Main supervisor

2021

Slivensky Cassidy, University of Bremen, Germany

| Main supervisor

BACHELOR STUDENTS

Priese Carlotta, B.Sc. at 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.

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: Haemolymph and nectar extraction, pollinator networks, beekeeping activities (colony assessment, wax and royal jelly sampling),

bumblebee experiments.

Fauna identification: European arthropods (depending on Order/Family), tropical rice-arthropods, European passerine birds.

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



Publications.

PEER-REVIEW ARTICLES

• First author: 3/5 (60 %) • Last author: 0/5 (0 %)

- 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

- 2. Dominik C., Seppelt R., Horgan F.G., Settele J., & Václavík T. Landscape heterogeneity filters functional traits of rice arthropods in tropical agroecosystems. (in revisions)
- 1. Gérard M., Baird E., Breeze T., Dominik C., & Michez D. Impact of crop exposure and agricultural intensification on the phenotypic variation of bees. (submitted)

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