

# CURRICULUM VITAE

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## 1. GENERAL INFORMATION

Jonathan Peereeman

19/03/1991

Arlon, Belgium

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## 2. UNIVERSITY DEGREES

- Bachelor in biology – Université Libre de Bruxelles (2009-2013)  
Dissertation: 'Scientific drawing in mangrove tree's species identification' with Farid Dahdouh-Guebas (ULB/VUB).
- Master in biodiversity & tropical plant's environments – Université Libre de Bruxelles (2013-2015)  
Thesis: 'Study of the extent and plant's structure of mangrove forests and *Spartina alterniflora* Loisel. marshes in the Jiulong estuary (Fujian, China)' with Farid Dahdouh-Guebas (ULB/VUB, Belgium), Shen Yu & Lili Wei (IUE, Chinese Academy of Science, China).
- PhD in forest ecology – National Taiwan Normal University & Academia Sinica (Taiwan) (2017-2020)  
Thesis: 'Assessment of forest dynamics through remote sensing in Fushan, Taiwan' (2 publications in 2020) with Teng-Chiu Lin.

## 3. SCIENTIFIC CAREER

- Collection manager – Pha Tad Ke Botanical Garden (Luang Prabang, Laos) (2015-2016)
- Botanist – Queen Sirikit Botanic Garden (Chiang Mai, Thailand) (2016-2017)
- Post-doc – Forest ecology laboratory of National Taiwan Normal University (Taipei, Taiwan) (2020-2023)
- Post-doc – Water-Environment-Development unit of University of Liège (Arlon, Belgium) (2023-2025)

## 4. TEACHING CAREER

### 4.1. University teaching

- 2017. Co-presenting an introduction to specimen collection and herbarium preparation for students at the University of Forestry (Yezin, Myanmar). 2 hours.
- 2021-2022. Field course in forest ecology and introduction to the use of remote sensing to study forest structure and change in the mountains of Taiwan. 6 hours each year for BSc and MSc students.
- 2021-2022-2023. Introduction to the use of remote sensing and GIS techniques in forest ecology as part of Teng-Chiu Lin's forest ecology course at National Taiwan Normal University (Taiwan). 2 hours each year for BSc students.
- 2024. Remote sensing in landscape ecology as part of Teng-Chiu Lin's landscape ecology course at National Taiwan Normal University (Taiwan). 2 hours, online, for MSc students.

- 2025. Introduction to Google Earth Engine for ecologists at the University of Parakou (Benin). 24 hours, for MSc students and PhDs.

#### 4.2. Non-university teaching

- 2015-2016. Introduction of gardeners of the Pha Tad Ke Botanical Garden to botany.
- 2015-2017. Presentation of the Pha Tad Ke Botanical Garden and Queen Sirikit Botanic Garden collections to foreign visitors.
- 2024. Moderation of a demo session on three tools developed by experts from the Joint Research Centre (EU) with the University of Liège. 2 hours online.
- 2025. Co-animation of serious games for the staff of communes in the Province of Luxembourg with Kévin Thibaut (University of Liège) as part of the preparation for risk management (droughts).

#### 4.3. End of 2nd and 3rd cycle work (directing, supervising, ...)

- 2017-2018. Supervision of two students (BA3 level) from the forest ecology laboratory at National Taiwan Normal University (Taiwan) for their fieldwork, collecting and analysing samples from different types of forest.
- 2019-2023. Supervision of students from the forest ecology laboratory at National Taiwan Normal University (Taiwan) in flying drones and using the acquired data.
- 2020-2022. Supervision of a MSc thesis on the effects of drought on forest cover in Taiwan.
- 2024-2025. Supervision of two ARES student theses (University of Liège) on i) interactions between human activities and climate in an urban forest in Dakar, and ii) soybean yield forecasting in the Central Benin region.

## 5. PUBLICATIONS AND SCIENTIFIC WORK

### 5.1. Publications list

#### 5.1.a. Works published as sole author

- 2016. 'Guide to the succulents in the Queen Sirikit Botanic Garden: main families and illustrated inventory of the succulent collection' Chiang Mai: The Botanical Garden Organization, 265pp. Jonathan Peereman

#### 5.1.b. Works published in collaboration

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#### 5.1.c. Parts of collective books

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#### 5.1.d. Articles in international scientific journals

- 2020 '*Landscape representation by a permanent forest plot and alternative plot designs in a typhoon hotspot, Fushan, Taiwan*' in Remote Sensing. Jonathan Peereman, J. Aaron Hogan, Teng-Chiu Lin
- 2020 '*Assessing typhoon-induced canopy damage using vegetation indices in the Fushan Experimental Forest, Taiwan*' in Remote Sensing. Jonathan Peereman, J. Aaron Hogan, Teng-Chiu Lin
- 2021 '*Cold wave-induced reductions in NDII and ChIRE for north-western pacific mangroves varies with latitude and climate history*' in Remote Sensing. Jonathan Peereman, J. Aaron Hogan, Teng-Chiu Lin
- 2022 '*Disturbance frequency, intensity and forest structure modulate cyclone-induced changes in mangrove forest canopy cover*' in Global Ecology and Biogeography. Jonathan Peereman, J. Aaron Hogan, Teng-Chiu Lin
- 2022 '*Intraseasonal interactive effects of successive typhoons characterize canopy damage of forests in Taiwan: A remote sensing-based assessment*' in Forest Ecology and Management. Jonathan Peereman, J. Aaron Hogan, Teng-Chiu Lin

- 2022 '*A comparison of radar and optical remote sensing to detect cyclone-induced canopy disturbance in two subtropical forest landscapes*' in Environmental Research Communications. Jonathan Peereman, Soyeon Bae, Teng-Chiu Lin
- 2025. '*Relative effects of sacred forests and protected areas on forest conservation and structure in Japan*' in Conservation Biology. Jonathan Peereman, Masahiro Aiba, Teng-Chiu Lin

#### 5.1.e. Articles in national scientific journals

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#### 5.1.f. Case writing

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#### 5.1.g. Working papers

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### 5.2. Scientific activities

#### 5.2.a. Study or research visits abroad

- 2014 February-June: University of Dschang (Cameroon) as part of the BEVT Master's programme.
- 2015 April: Fieldwork for the BEVT Master's thesis in the mangroves of the Jiulong estuary (Fujian, China) with the Institute of Urban Environment (Chinese Academy of Sciences).
- 2015 October - 2016 March: Employed as botanist and collections manager at Pha Tad Ke Botanical Garden (Laos).
- 2016 April - 2017 July: Employed as a botanist at the Queen Sirikit Botanic Garden (Thailand).
- 2016 June: Fieldwork in Shan State (Myanmar) for Flora of Myanmar with Kochi Botanical Garden (Japan).
- 2017 September - 2023 May: PhD then post-doc at Academia Sinica and the Forest Ecology Laboratory at National Taiwan Normal University (Taiwan).
- 2024 March: Field campaign in the various central landscapes of Benin with the University of Parakou and CIRAD.

#### 5.2.b. Active participation in international conferences and symposia

- 2017, 2018, 2019 : Poster presentations at the Taiwan International Graduate Programme - Biodiversity Retreat (Taiwan).
- 2023 September: Moderation of a Copernicus Land Users Event 2023 seminar in Brussels.
- 2024 March: Presentation of three posters at the OBSYDIA event at INRAB (Cotonou, Benin).
- 2024 May: Presentation at the First General Assembly of the Copernicus Land Monitoring System in Antwerp.

#### 5.2.c. Invitations to speak, excluding conferences and symposia

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#### 5.2.d. Expert or consultant missions

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#### 5.2.e. Others

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### 5.3. Popularisation activities

- 2015-2017: Presentation of plants from the two botanical gardens of Pha Tad Ke and Queen Sirikit to English- and French-speaking visitors.
- 2016-2017: Preparation of posters on palms and collections of plants from arid environments in the Queen Sirikit Botanic Garden (Thailand).

## **6.LOGISTICS RESPONSIBILITIES**

### **6.1.As part of teaching and research**

- Co-supervision of BSc degree dissertations field works and MSc theses - National Taiwan Normal University (two dissertations, one thesis) and University of Liège (two theses).
- Writing of collaborative project applications for Belspo - STEREO IV, Ministry of Science and Technology (Taiwan), ARES ASEM-DUO.
- Writing of activity reports for the Joint Research Centre (EU), Ministry of Science and Technology (Taiwan), DeSIRA (Capacity4Dev, EU).
- Organisation of on-site and online seminars, poster presentations, consultations for the Joint Research Centre (EU).

### **6.2.Participation in ULB administration (if applicable)**

6.2.a.Duties and mandates in the various ULB participation bodies

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6.2.b.Others

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## **7.OTHER INFORMATION**

Languages: French (native), English (fluent), Spanish (reading: working proficiency, speaking: beginner)

IT: R, QGIS, SNAP, Google Earth Engine, LaTeX, MS Office, Adobe Illustrator and InDesign

Fieldwork: forest ecology, sampling, fieldwork design