



SWANN MAEDER-PRAS

ENVIRONMENTAL ENGINEER

Ecologist with dual master's degrees and 2 years' experience in research on nature-based solutions for sanitation. Passionate about botany, aiming to contribute to meaningful and multidisciplinary research projects.

PROFESSIONAL EXPERIENCES

LANGUAGES

English (B2)

- Immersion in an American family in Madison, Wisconsin (1 month)
- IELTS (2018)

Spanish (A2)

Italian (A2)

Latin

6 years of learning, remobilized for plant taxonomy

SKILLS

IT tools

- Pack Office
- R & Rstudio
- QGIS - GIS
- Python

Mathematics

- Modeling
- Statistics

Laboratory skills

Soft skills

- Project management
- Organizational skills
- Sense of observation
- Adaptability
- Curiosity

Driving & boating license

RESEARCH ENGINEER • WETLAND TREATMENT (NBS) IN TROPICAL ENVIRONMENTS

FIXED-TERM CONTRACT • INRAE LYON (UR REVERSAAL) • LYON • 2 YEARS • 2023-2025

Projects: Sargasso and CARIBSAN 1 & 2

Project management, experimental pilot creation, modeling and web application creation, chemical analysis, writing

PROJECT MANAGER • WETLAND TREATMENT (NBS) IN TROPICAL ENVIRONMENTS

INTERNSHIP • INRAE LYON (UR REVERSAAL) & RHUM JM • MARTINIQUE • 6 MONTHS • 2022

Optimization of a sustainable sanitation system for Caribbean distilleries

Project management, sizing, experimental design (R&D), chemical analysis, statistics

RESEARCH ENGINEER • PERFORMANCES OF GREEN ROOFS OVER TIME

INTERNSHIP • SOILS & ENVIRONMENT LABORATORY (INRAE) & CEREMA • NANCY • 6 MONTHS • 2021

Creation an experimental protocol, physico-chemical & microbiological analysis of soils, statistical processing (R), writing article.

RESEARCH ENGINEER • METAL ACCUMULATION IN TROPICAL PLANTS

INTERNSHIP • INSTITUTE FOR INTEGRATIVE CELL BIOLOGY • PARIS • 2 MONTHS • 2020

Creation of a database from herbarium samples (MNHN), statistical analysis (R), cartography (GIS), writing.

Co-author: (Belloeil et al. 2021, Metallomics, 13, <https://doi.org/10.1093/mtomcs/mfab045>).

TECHNICIAN • STATION ALPINE & JARDIN BOTANIQUE DU LAUTARET (LECA) • 1 MONTH • 2019

INTERNSHIP: Creation a taxonomic database, herbarium classification, seeding

TROPICAL HORTICULTURE TECHNICIAN • MUSEUM DE GRENOBLE • 1 MONTH • 2019

INTERNSHIP: Creation of new exhibitions, museography, collection maintenance

RESEARCH TECHNICIAN • EPIGENETIC PROCESSES OF FLOWERING

INTERNSHIP • CEA (LPCV) • GRENOBLE • 1 MONTH • 2018

Genotyping (PCR), protein gel separation, DNA extraction, R

EDUCATION & TRAININGS

MASTER'S DEGREE IN BIODIVERSITY, ECOLOGY AND EVOLUTION • SPECIALIZATION PLANT BIODIVERSITY AND MANAGEMENT TROPICAL ECOSYSTEMS • 2021 - 2022 • AgroParisTech • Université de Montpellier

MASTER'S DEGREE IN BIODIVERSITY, ECOLOGY AND EVOLUTION • SPECIALIZATION ECOLOGICAL ENGINEERING COURSE • FOCUS ON ECOTECHNOLOGIES AND BIOREMEDIATION • 2019 - 2021 • Université Aix-Marseille

BACHELOR'S DEGREE IN LIFE SCIENCES • 2016 - 2019 • Grenoble Alpes University

MOOC BOTANY • MOOC NATURE FOR CITY LIFE • MOOC AGROFORESTRY (AGROOF)

UNIVERSITY DIPLOMA (DU) BOTANICS AND ECOLOGY OF ALPINE PLANTS • June 2019 • Col du Lautaret - Jardin alpin du Lautaret • Voluntary training

INTERESTS & HOBBIES

Botany: active member of the Linnean Society of Lyon, former active member of ANUMA (Student Naturalist Association of Marseille), readings, botanical drawings, photos & photo web account, hikes; **Piano (for 15 years); Skiing (for 20 years)**



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