

François Michonneau, PhD

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WORK EXPERIENCE

Voltron Data

Remote

Senior Training Engineer, Customer Success

04/2023 - 07/2024

- Liaised with customers to collect feedback, escalating issues to the Engineering team for rapid bug resolution, enhancing customer satisfaction.
- Created and delivered training sessions for partners' Account Executives, allowing them to effectively promote our products to their customers.
- Authored and edited an online book (<https://voltrondata.com/codex>) in collaboration with Engineering and GTM teams to explain concepts behind the company's products.
- Developed vision and multi-year roadmap pioneering Training program to educate community and customers about the tools and technologies underpinning the products.

Lead Training Engineer, Developer Relations

08/2022 - 04/2023

- Led development and delivery of webinars with 150+ attendees for open source tools (Ibis, Python dataframe library) to boost community adoption.
- Authored and edited 10+ articles, demos, tutorials, and social media posts showcasing the application of open source tools (Apache Arrow, Ibis, DuckDB) in big data ETL processes.
- Improved documentation to help developers familiar with other data manipulation (dplyr) libraries to adopt Ibis

The Carpentries

Remote

Senior Director Of Technology, Executive Team member

03/2020 - 08/2022

- Led cross-team initiatives, developed and executed 5-year strategic plan, oversaw hiring and onboarding, managed grant budgets and reporting, developed HR workflows/policies, direct supervision of 6 people; growing and supporting an inclusive, global, remote team serving a worldwide community of 3,500+ volunteers organizing 400+ workshops/year.
- Oversaw organization-wide development and implementation of internal policies and workflows for GDPR compliance
- Directed team of 3 engineers developing The Carpentries data management web application (Python/Django/Ansible hosted on AWS EC2/S3/RDS PostgreSQL) to automate workflows and develop data privacy compliance features.
- Led team of 2 UX/UI designers and 1 engineer to develop and roll out new infrastructure (R/RMarkdown + GitHub Actions), used across 100+ lessons serving 50k+ unique visitors/month.

Curriculum Development and Infrastructure Lead

02/2018 - 02/2020

- Led a community of over 60 maintainers, facilitating the development and publication of more than 10 lessons to ensure contributor recognition.
- Delivered 25+ global workshops on R, Python, Git, and Bash to promote reproducible best practices among researchers.
- Oversaw technical infrastructure management, transitioning to cloud services (AWS EC2) and Docker for unified deployment automation.

- Created monitoring systems, dashboards (R/Shiny), and automated reports to enhance service reliability and data accessibility while growing 50% year-to-year.

University of Florida

Postdoctoral Researcher

01/2015 - 02/2018

- Developed reproducible data pipeline to consolidate 3+ million marine biodiversity records from 5 public databases (iDigBio, OBIS, WoRMS, GBIF, BOLD) using web APIs and web scrapping with R (tidyverse, ggplot2, DB, and geospatial tools) into a PostgreSQL + PostGIS database. This work has led to \$1M+ in federal funding for digitizing US museum collections.
- Led collaborative development of R packages to access biodiversity data through web APIs downloaded over 5,000 times a month and used in 360+ peer-reviewed scientific publications.

EDUCATION

Doctor of Philosophy - PhD in Biology, Zoology

University of Florida

Gainesville, FL, USA • 08/2006 - 12/2014

Master's degree in Ecology, Biodiversity, Evolution

Pierre and Marie Curie University

Paris, France • 09/2004 - 06/2005

Master's degree in Tropical Biology

Université de La Réunion

Saint Denis, La Réunion • 09/2003 - 06/2004

Bachelor of Science - BS in Population Biology

La Rochelle Université

La Rochelle, France • 09/2001 - 06/2003

VOLUNTEERING & LEADERSHIP

ROpenSci

01/2024 - Present

Mentoring members of the R developer community who are interested in writing, maintaining, or contributing to an R package.

The Carpentries

09/2014 - Present

- **Instructor (2014-present):** 25 workshops taught in the US, Europe, and the Caribbean.
- **Lesson Maintainer (2014-2023)** for Data Carpentry R Ecology lesson (30,000+ unique monthly visitors). Wrote the lesson and evaluated community contributions.
- **Instructor Trainer (2017-2022):** Taught the pedagogical concepts used in The Carpentries to future instructors and oversaw the certification process.

PUBLICATIONS

20+ peer-reviewed publications.

Complete list available at: <https://francoismichonneau.net/publications/>

SKILLS

Technical Skills: Apache Arrow, AWS, Data Science, Docker, DuckDB, Git, Github + GitHub Actions, Jekyll, Linux (Ubuntu), PostgreSQL, R, SQL, tidyverse

Leadership Skills: Developer Advocacy, Pedagogy, Product Education, Product Management, Project Management, Remote Team Management