



Luis Fernando Valdes Villarreal Boullosa

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● ABOUT MYSELF

Programmer and evolutionary biologist driven by curiosity. I like to fully dive into new topics, tools or projects and acquiring new skills to help a team develop their ideas. I am passionate about data, consumer protection, statistics, nature and photography. I want to help create a better world for everyone, one day at a time.

● WORK EXPERIENCE

01/06/2021 - 31/01/2025 - DEN BOSCH, NETHERLANDS

STATISTICAL PROGRAMMER OCS CONSULTING

Full-time, payed work

1. Clinical Data Management:

- * Develop and implement data management plans for clinical trials
- * Ensure compliance with regulatory requirements (e.g., CDISC, FDA)
- * Coordinate with cross-functional teams to resolve data issues or discrepancies

2. Programming and Coding:

- * Write SAS programs to process, analyze, and report patient-level clinical trial data
- * Write SAS macros and functions for use by other programmers
- * Develop custom software tools to automate tasks and improve efficiency
- * Develop web tools and dashboards for visualization of live data
- * Manage large SQL databases efficiently
- * Design and implement complex programming solutions
- * Thoroughly test, document and review code and other tools according to Standard Operating Procedures

4. Project Coordination:

- * Collaborate with project managers, biostatisticians, and other stakeholders to plan and execute projects
- * Coordinate with vendors or external partners as needed
- * Ensure timely delivery of high-quality deliverables

5. Documentation and Reporting:

- * Prepare and maintain technical documentation (e.g., programming code, data management plans)
- * Create and review project reports, including data summaries and analyses

6. Stakeholder Communication:

- * Communicate effectively with clients, sponsors, or other stakeholders to ensure project deliverables meet their needs
- * Respond to questions and concerns from stakeholders regarding clinical trial data

7. Training and Development of training material:

- * Showcase case-studies
- * Co-develop a pilot for AI voice-assisted training material

01/03/2025 - CURRENT - GRONINGEN, NETHERLANDS

FREELANCE SCIENTIFIC PROGRAMMER SELF EMPLOYED

Part-time, payed work / volunteering

- Development of visualization dashboards
- Coding data and analysis pipelines for reporting and publication
- Website construction and management
- Setting up of docker servers for use of local LLMs
- Management of Encrypted, Europe-based databases

01/01/2020 - 30/06/2020 - GRONINGEN, NETHERLANDS

RESEARCH ASSISTANT UNIVERSITY OF GRONINGEN

Part-time, payed work

- Organization and participation in team meetings and colloquia
- Collection of relevant literature
- Organization of group discussions

01/05/2020 - 01/05/2021 - GRONINGEN, NETHERLANDS

PHOTOGRAPHER AND WEBSHOP MAINTAINER LIATELIER SIERADEN EDELSTENEN

Part-time, payed work

- Maintenance of computers
- Maintenance of webshop
- Product photography
- Photography post-production
- Design of social media campaigns

● **EDUCATION & TRAINING**

01/08/2015 - 31/08/2020 - GRONINGEN, NETHERLANDS

MASTER'S IN ECOLOGY AND EVOLUTION- UNIVERSITY OF GRONINGEN

- Co-developed a mechanistic neural-network model in C++ to simulate evolution of movement strategies in digital organisms.
- Built compartmental models to study evolutionary epidemiology of Ebola; contributed to peer-reviewed publication (<https://doi.org/10.1111/jeb.13229>).
- Designed qPCR protocols for measuring species abundance in evolving synthetic bacterial chemostat communities.

MEME (Mobility European Master Programme in Evolutionary Biology) is a two-year research-oriented master programme for talented and motivated students who are interested in understanding evolution in all its facets. It is a joint project between four European universities ([University of Groningen](#) , Netherlands; [Ludwig Maximilians University of Munich](#) , Germany; [Uppsala University](#) , Sweden; [University of Montpellier](#) , France) as partners and [Harvard University](#) (USA) and [University of Lausanne](#) (Switzerland) as associated partners. Students start their studies with a semester in either Groningen or Uppsala, and then move to either Montpellier or Munich for their second semester. In the third and fourth semesters, students can choose the partner university at which to carry out their individual research projects. Upon completion of the programme, students are awarded a double degree from two partner universities.

Field(s) of study:Biology | **Final grade:** 7.4 | **Level in EQF:** 7 | **National classification:** 7 | **Type of credits:** ECTS |

Number of credits: 120 | **Thesis:** The Evolution of Community Structure / The Evolution of neural-network movement strategies in fluctuating environments | **Website:** <https://www.evobio.eu/>

28/06/2021 - 28/06/2021 - NETHERLANDS

SAS 9.4 BASE PROGRAMMING- SAS GLOBAL CERTIFICATION

Field(s) of study:Basic programmes and qualifications | **Website:**

https://www.sas.com/en_us/certification/credentials/foundation-tools/base-programming-specialist.html

01/08/2008 - 01/08/2015 - MEXICO CITY, MEXICO

BACHELOR'S IN BIOLOGY (LICENCIATURA EN BIOLOGÍA)- UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO

Field(s) of study:Biology | **Level in EQF:** 6 | **Website:**

<https://www.fciencias.unam.mx/estudiar-en-ciencias/estudios/licenciaturas/biologia>

● **LANGUAGE SKILLS**

Mother tongue(s): **SPANISH**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
DUTCH	B2	B2	B2	B2	B2

● **SKILLS**

Social Media | Good listener and communicator | Organizational and planning skills | Research and analytical skills | Creativity | Team-work oriented | Critical thinking | Responsibility | Reliability | Analytical skills | Event facilitation | Conflict Resolution | Databases (MongoDB MySql PostgresSql) | perform data cleansing | data visualisation software

Programming

R Studio | Visual Studio | Visual Studio Code | SQL | SAS Studio | implement ICT coding conventions | SAS Base | VBScript | SAS language | R | SAS 9.4 | use object-oriented programming | Python (computer programming) | C++ | Web-based Software Development (REST JSON SQL PHP)

Statistics

Generalized Linear Models | biostatistics | Multivariate Analysis | apply statistical analysis techniques | statistical modeling techniques | identify statistical patterns | statistics

Other Software

Microsoft Office | Google Drive | Adobe Photoshop Lightroom | Local LLMs | Zoom

Clinical Studies and Data

CDISC | manage quantitative data | Clinical Data Management | Data Visualization | <http://data.europa.eu/esco/skill/3e8e862d-2f1a-40c6-bb6d-d1d7eeb78854> | process data | gather data | data warehouse | present reports | conduct quantitative research | analyse big data

● **HOBBIES AND INTERESTS**

Photography I love photography as a tool to pay close attention and connect to my subjects. I have been photographing actively for around 15 years, when I first started taking photos (with my first smartphone and a loupe) of the small plants and flowers in the semiarid grasslands in Oaxaca, México, while doing experiments and collecting data on plant-soil feedbacks and it's effect in community dynamics.