

# CURRICULUM VITAE

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## COMPUTING EXPERIENCE

- **BACK-END PROGRAMMING:** C, C++, Qt, Java, PHP, SQL, ASP.NET, C#, Visual Basic.NET.
- **FRONT-END PROGRAMMING:** Javascript (ReactJS), HTML5, CSS3, XML, AJAX.
- **CRITICAL AND EMBEDDED SYSTEMS PROGRAMMING:** SPARK Ada, x86 Assembler, VHDL, Siemens LOGO! Soft.
- **PARALLEL COMPUTING AND MULTITHREADING:** C (w/MPI), C++, OpenGL, OpenCL, Python (w/Multiprocessing).
- **BIG DATA AND MACHINE LEARNING:** MATLAB, Python (w/Tensorflow), R.
- **OTHER LANGUAGES:** Lua, UML, LaTeX, R Markdown, VBA.
- **GIS SOFTWARE:** QGIS, ArcGIS (w/ModelBuilder).
- **ADDITIONAL SOFTWARE AND TOOLS:** Adobe Photoshop, Illustrator, Dreamweaver, Flash, Microsoft Office suite, Visio, Access, SQL Server, MySQL, SVN, Git, VirtualBox, VMWare Player.

## EDUCATION

Universität Tübingen (University of Tübingen)

**PHD IN EARLY PREHISTORY (IN PROGRESS)**

**2018 FEB–PRESENT**

Modules included:

- GIS Fundamentals 1 & 2
- Primate Evolution
- Introduction to Human Evolution
- Archaeobotany
- Modern Human Origins
- Introduction to Human Osteology
- The Evolution of Culture and Cognition
- Ancient Coinage as Source for Classical Studies

Prifysgol Abertawe (Swansea University)

**ADVANCED COMPUTER SCIENCE MSc (DISTINCTION)**

**2016 SEP–2017 SEP**

Modules included:

- Graphics Processor Programming
- Big Data and Machine Learning
- Software Testing
- High-Performance Computing in C/C++
- Critical Systems
- IT Security: Theory and Practice

Universidad Francisco Gavidia (Francisco Gavidia University)

**ELECTRONIC ENGINEERING (EXCELLENCE)**

**2011 JAN–2015 DEC**

Modules included:

- Hardware Description Language
- Microprocessors II
- Programming I
- Digital Electronics II

ITCA-FEPADE

**TECHNICIAN IN COMPUTER SYSTEMS ENGINEERING**

**2011 JAN–2014 JAN**

Completed (no certificate). Modules included:

- Systems Development IV
- Client-Server Applications
- Web Design and Multimedia II
- Object-Oriented Programming

## EMPLOYMENT

Department of Early Prehistory and Quaternary Ecology, University of Tübingen

**RESEARCH ASSOCIATE**

**2018 FEB–PRESENT**

B. Braun Medical Central America & Caribe S.A. de C.V.

**CHIEF INFORMATION OFFICER (CIO)**

**2016 JAN–2016 AUG**

Tasks included the administration of IT network and infrastructure, providing technical support, acting as technical adviser for local management, and implementing international IT projects locally.

## PUBLICATIONS

**FOR A LIST OF PUBLICATIONS, PLEASE VISIT THE PUBLICATIONS PAGE ON MY WEBSITE.**

## TEACHING EXPERIENCE

Department of Early Prehistory and Quaternary Ecology, University of Tübingen

**SUBSTITUTE LECTURER FOR ONE SESSION OF THE MODULE *THE EVOLUTION OF CULTURE AND COGNITION***

2018 OCT

Faculty of Engineering and Systems, Francisco Gavidia University

**UNDERGRADUATE TEACHING ASSISTANT FOR THE MODULE *DIGITAL ELECTRONICS I***

2015 AUG–2015 NOV

HELD WEEKLY OFFICE HOURS FOR STUDENTS, ASSISTING THEM WITH REVISION, EXPLAINING EXAMPLE PROBLEMS, AND SOLVING EXERCISES.

**UNDERGRADUATE TEACHING ASSISTANT FOR THE MODULE *ELECTRONICS I***

2015 FEB–2015 JUN

HELD WEEKLY OFFICE HOURS FOR STUDENTS, ASSISTING THEM WITH REVISION, EXPLAINING EXAMPLE PROBLEMS, AND SOLVING EXERCISES.

## CONFERENCE ORGANISATION

Meeting of Students of Evolution and Ecology (Meeting StEvE) 2020. Tübingen, Germany

**ORGANISING COMMITTEE**

2020 NOV

PRIMARCH: New Methodologies in Primate Archaeology. Tübingen, Germany

**CO-ORGANISER**

2020 FEB

## CONFERENCE PARTICIPATION

ESHE 2020: 10th Annual Meeting of the European Society for the study of Human Evolution

**[POSTER] *A PROOF OF CONCEPT FOR MACHINE LEARNING-BASED VIRTUAL KNAPPING***

2020 SEP

## ARCHAEOLOGICAL FIELDWORK

Department of Early Prehistory and Quaternary Ecology, University of Tübingen

**LANGMAHDHALDE, BADEN-WÜRTTEMBERG, GERMANY**

2020 MAY–2020 JUN

## VOLUNTEER WORK

Salvadoran Emergencies Association (ASAE)

**GRAPHIC DESIGNER AND TRANSLATOR**

2011 APR–PRESENT

DESIGNED LOGOS AND FLYERS FOR THE ORGANISATION, CONFERENCES, AND COURSES. TRANSLATED OFFICIAL DOCUMENTS AND OTHER TEXTS (SPANISH–ENGLISH).

**WEBMASTER**

2011 APR–2015 FEB

BUILT THE ORGANISATION WEBSITE.

Central American and Caribbean Intensive Therapy Consortium (COCECATI)

**GRAPHIC DESIGNER AND WEBMASTER**

2010 OCT–PRESENT

DESIGNED THE ORGANISATION LOGO AND BUILT THE WEBSITE.

Salvadoran Association of Critical and Intensive Care Medicine (ASALMECCI)

**GRAPHIC DESIGNER AND CONFERENCE COLLABORATOR**

2010 JUN–2012 OCT

DIGITALISED AND RE-WORKED ORGANISATION LOGO. PARTICIPATED IN TWO CONFERENCES AS TECHNICAL STAFF.

## LANGUAGES

- Spanish – NATIVE
- English – FLUENT (CEFR C2)
- French – ADVANCED (CEFR B2–C1)
- German – INTERMEDIATE (CEFR B1)
- Welsh – BEGINNER (CEFR A1)
- Armenian – BASIC

## CERTIFICATIONS

- B. Braun Technical Training Course on Continuous Infusion Technique Including Inspection, Maintenance and Repair of Medical Devices 2016 APR–2019 APR

## HONOURS AND AWARDS

- Swansea University International Excellence Scholarship 2016 JUL
- Diploma of Recognition from the Salvadoran Association of Engineers and Architects (ASIA) 2016 JUL
- Graduated with academic excellence from Universidad Francisco Gavidia 2016 MAY
- Diploma of Academic Merit from the Faculty of Engineering and Systems of Universidad Francisco Gavidia 2015 Nov
- Diploma of Academic Excellence from the Faculty of Engineering and Systems of Universidad Francisco Gavidia 2014 Nov
- Member of the ACP (Assurance of Professional Competitivity) programme at Universidad Francisco Gavidia 2011 JAN–2016 MAY