

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name
Address
Telephone/Fax
Cellular phone
E-mail

Nationality

Date of birth

JULIA ZULEMA RIVAS

WORK EXPERIENCE

April 2024 – Present

The University of Urbino Carlo Bo, Italy.

Education

Fixed-term collaboration contract. **Organizational Manager, Biomolecular and Health Sciences (BHS) PhD Program. Department of Biomolecular Sciences. University of Urbino Carlo Bo, Italy.**

The PhD Program Organizational Manager acts in an internal network (with central and peripheral organs and offices and an external network (National and International Institutions and Commissions). It is a figure related to the functions of coordinating and facilitating teaching that takes place in new and innovative forms. The Manager role on the Moodle platform, a Learning Managing System (LMS), allows access to category courses and their modification with permissions such as Enrol users, Edit course settings, Add/Edit course content, Activate Video chats, Grade students, and View grades. The University Planner (UP) educational scheduling system supports developing course and exam timetables, managing changes, sharing rooms with other events, and scheduling students to individual classes. It is a distributed system that allows managers to coordinate efforts to build and modify a schedule that meets their diverse organizational needs while allowing for the minimization of student course conflicts. The Organizational Manager is also involved in evaluating the effectiveness of services and implementing operational improvements. Supports the reporting activities required by the Quality Presidium Office as part of the procedures required by AVA3. Acts as a resource person regarding policies and procedures governing the PhD program. Manages student-focused communications to enhance student engagement and community building. Manages recurring student events, including the Three Minute Speech presentation and the Seminar Series. Builds and maintains productive working relationships between the PhD Program and the PhD student community. Supports recruitment initiatives and events. Strong communication skills, including discretion, judgment, and diplomacy are needed. Ability to successfully collaborate across different professional backgrounds. Self-motivated, takes initiative with a proactive approach to problem-solving.

January 2023 – Present

L'Operosa SpA – Granarolo dell'Emilia (BO), via Don Minzoni, 2-Frazione Cadriano
Facility Management Services Operator

Hired on a part-time, open-ended contract with the duties outlined in the relative C.C.N.L (Porter).

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities
- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held

- Main activities and responsibilities

Information front office clerk at the Scientific Library of the University of Urbino Carlo Bo with the duties of a receptionist and entry/exit registration, answering phone calls, sorting mail, shelving and handing out books, photocopying and scanning documents, supporting students in the use of the University's electronic catalog (OPAC) and the info-telematic equipment including the Self-Lending service.

WORK EXPERIENCE

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

September 2018 – December 2022

Team Service Società Consortile A.R.L., via Angelo Bargoni, 8 – 00153 Roma.

Facility Management Services Operator

Hired on a part-time, open-ended contract with the duties outlined in the relative C.C.N.L. (Porter).

Information front office clerk at the Scientific Library of the University of Urbino Carlo Bo with the duties of a receptionist and entry/exit registration, answering phone calls, sorting mail, shelving and handing out books, photocopying and scanning documents, supporting students in the use of the University's electronic catalog (OPAC) and the info-telematic equipment including the Self-Lending service.

WORK EXPERIENCE

- Dates (from to)
- Type of business or sector

2005 – 2018

Private lessons in the following languages: Italian, English and Spanish, and the Science subjects: Physics, Mathematics, Biology and Chemistry.

WORK EXPERIENCE

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

February 2003 – September 2003

Call-Net Service, Fabriano (AN)

Service Company

Hired on a part-time, fixed-term contract

Call Center Operator. The customer service switchboard operator handles incoming phone calls and subsequent appointments with the technician.

Translator. English and Spanish translation of technical documents.

WORK EXPERIENCE

- Dates (from to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

March 1998 – December 2000

Fundación Hondureña de Investigación Agrícola (FHIA), La Lima, Honduras, Centro América.

A private, apolitical, nonprofit corporation dedicated to generating and promoting agricultural technology.

Hiring on a Permanent Contract basis

Head of the Biotechnology Laboratory. Responsible for organizing and managing the Laboratory and its technical staff (from 5-6 people). The main purpose of the laboratory was to provide FHIA banana hybrids, reproduced through the micropropagation technique, to the various FHIA research programs and projects and the different national and international commercial laboratories under contract with the Foundation for the massive reproduction of the said plants.

Participation in a study aimed at the evaluation, on the field, of FHIA-21 hybrid plants derived from *in vitro* multiplication using flora apices compared to the traditional method.

Other crops reproduced in the laboratory included: taro, ginger, and pineapple. Trials have also been performed to develop a method for the *in vitro* multiplication of *Cocos nucifera*.

Laboratory Technician. Department of Plant Protection. Supporting the diagnostic service of plant diseases using biomolecular techniques such as ELISA and PCR and basic microscopic and cultural techniques.

Visit the following website at the digital page 42 (page 37 of the table of contents):

chrome-extension://efaidnbmnnnnibpcajpcgclefindmkaj/https://fhia.org.hn/wp-content/uploads/informe_anual_fhia_1999.pdf

WORK EXPERIENCE

- Dates (from to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

September 1995 – May 1997

El Paso Community College (EPCC), Department of Biology, El Paso, Texas, United States of America

Education

Hiring on a part-time, fixed-term contract.

Instructor. Teaching assignments in the following courses of study: Biology, Microbiology, Anatomy, and Physiology, including their corresponding laboratory courses. Frontal teaching in English language of the above subjects with the direct responsibility for the final evaluation of students. Some of the laboratory techniques subject of teaching were:

- Proper use of the microscope
- Preparation of monocultures
- Staining procedures
- Enumeration of microorganisms through:
 - o Hemocytometer and colorimeter (total bacterial load)
 - o Pour plate and spread plate methods (viable bacterial load)
- Determination of bacterial load in food (Standard Plate Count or Aerobic Plate Count)
- Determination Growth Curves
- MPN and membrane filter methods (total coliforms)
- Differential metabolic activity of pathogenic microorganisms
- Phage assay (plaque forming units, pfu)

WORK EXPERIENCE

- Dates (from to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Fall 1992 – December 1995

University of Texas at El Paso, Department of Biological Sciences, El Paso, Texas, United States of America

Education

Hiring on a part-time, fixed-term contract.

Researcher. Purification and characterization of strongly proteolytic proteins extracted from rattlesnake venom. Studied the activity of these proteins on purified components of the Human Complement System. Some of the methods and techniques used were:

- DEAE Column Chromatography and HPLC
- SDS-PAGE, Isoelectric focusing IEF
- Slot Blot, Immunoblotting
- Sheep Red Blood Cell Sensitization
- Complement and antibody titration experiments
- Monoclonal antibody production methods
- Tissue Culture Techniques

Teaching Assistant (TA). Professor teaching assistant responsible for frontal teaching in English language of the following laboratory courses: Biology, Genetics, Microbiology, Bacteriology, Immunology, and Molecular Biology of the Cell, including the final evaluation of students for each of the above courses. Some of the laboratory techniques subject of teaching:

- Bradford Protein Assay
- NATIVE Gel Electrophoresis and SDS-PAGE
- Affinity Chromatography
- ELISA
- DNA plasmid isolation, digestion with Restriction Enzymes, fragment separation by Agarose Gel Electrophoresis, quantification of DNA by UV
- Polymerase Chain Reaction (PCR)
- Preparation and use of Immunizing Agents in the production of Vaccines.
- Ultracentrifugation and Quantification of Immunoglobulins
- Enumeration of B and T Cells in Blood
- Blood Typing, Compatibility test, Rh Tube Test
- Titration and Adsorption of O Serum
- Precipitation and gel diffusion analysis
- Complement Fixation

WORK EXPERIENCE

- Dates (from to)
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- Main activities and responsibilities

August 1992 – November 1992

Hospital-Escuela (National Hospital of Honduras), Section of Parasitology, Department of Clinical Laboratories, Tegucigalpa, Honduras
Health and Education

Internship as a laboratory technician

Identification and diagnosis of human intestinal parasites. Participation in two epidemiological studies involving some parasites of National interest. Preparation of a collection of various types of helminths on permanent mounts to be donated to the Laboratory of Parasitology of the University of Texas at El Paso.

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
 - Title of qualification awarded

Second Session 2022

Ministero dell'Università e della Ricerca, Italy

Qualification to practice as a biologist with a vote of **134/200**, December 2022

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
 - Title of qualification awarded

December 2018 – October 2022

School of Biological Sciences and Biotechnology of the University of Urbino Carlo Bo, Italy

Master's degree in Sanitary Nutritional and Environment Biology (LM-6), curriculum: Molecular Diagnostics with a vote of **102/110**, on October 14th, 2022

Thesis title: "The Role of Histones in the Alteration of Platelet Indices"

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
 - Title of qualification awarded

October 2011

Ministero dell'Istruzione, dell'Università e della Ricerca, Italy

Scientific High School Diploma by equivalence with vote **7.5/10** obtained in Honduras in 1985.

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
 - Title of qualification awarded

October 2008 – December 2009

Faculty of Science and Technology of the University of Urbino Carlo Bo, Italy

Bachelor's Degree in Biological Sciences, curriculum: Cellular/Biomolecular-Training Pathway A with vote **102/110**, on December 10th, 2009

Thesis title: "Mechanism of action of the immunosuppressant Tacrolimus: co-drug of an endogenous cellular protein."

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded

Fall 1992 – December 1995

University of Texas at El Paso (UTEP), El Paso, Texas, United States of America

Biological Sciences

Master of Science with a GPA (grade point average) of **3.93/4** on December 16th, 1995

Thesis title: "Complement inactivating proteases in *Crotalus molossus molossus* (Northern black-tailed rattlesnake) venom"

Visit the web page:

Graduated with **Honors**

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Summer 1 1989 – May 1992

University of Texas at El Paso (UTEP), El Paso, Texas, United States of America

Major: Microbiology, Minor: Chemistry

Bachelor of Science with a GPA (grade point average) of **3.41/4** on May 15th, 1992
Dean's List (Among the **top 10 percent** of students of the Faculty of Science)

EDUCATION AND TRAINING

- Dates (from to)
- Name and type of organization providing education and training
- Title of qualification awarded

1986 – 1988

Universidad Nacional Autónoma de Honduras (UNAH), Department of Microbiology, Tegucigalpa, Honduras

Student of the Department of Microbiology

Exams completed: 26

CFUs achieved: 108

Grade point average (GPA): **79/100**

I was granted a USAID scholarship to continue my studies in The United States of America.

PERSONAL SKILLS

AND COMPETENCES

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

SPANISH

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

ECCELLENT

ECCELLENT

ECCELLENT

ITALIAN

ECCELLENT

ECCELLENT

ECCELLENT

SOCIAL SKILLS

AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

- Ease of communication in the following languages: Spanish, English, and Italian (all three at an advanced level, both written and oral) due to experiences of living, studying, and working abroad. Also very comfortable with the technical and scientific language.
- Excellent ability to adapt to multicultural environments and familiarity with residence permits and similar procedures.
- Experience with the University's registration and enrollment procedures

ORGANISATIONAL SKILLS

AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

Being responsible for managing and organizing a PhD Program at the University of Urbino and a laboratory at FHIA, Honduras (including its technical staff) has helped me communicate effectively to achieve goals, coordinate teamwork, manage priorities, and plan to meet given timelines. I have also learned how to prepare and administer a budget in a laboratory work environment.

TECHNICAL SKILLS

AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc.

Excellent knowledge of the Microsoft Office package (Word, Excel, Outlook, PowerPoint) and the Gsuite (Google Docs, Google Sheets, Google Slides, and Google Forms), secure Internet browsing, e-mail management, cloud usage (Drive, Dropbox), OCR: ABBYY FineReader, use of the video conferencing platforms Zoom and Google Meet and the browsers Chrome and Firefox,

with continuous computer skill updating on a personal basis, e.g., participation in the following Digital Literacy courses such as Coding in Biblioteca, Infopatente and Bibliopatente for online document search on e-learning platforms, and the latest MOOC: Le competenze didattiche dei docenti universitari secondo il framework DigCompEdu offered by the University of Urbino Carlo Bo.

SCIENTIFIC PUBLICATIONS

Co-author of the work:

Giglio RV, Ligi D, Della Franca C, Lo Sasso B, Rivas JZ, Agnello L, Mannello F, Ciaccio M. Thrombocytopenia and hyperinflammation are induced by extracellular histones circulating in blood. Clin Chem Lab Med. 2023 Jun 21;61(12):e239-e243. doi: 10.1515/cclm-2023-0590. PMID: 37338192.

See website: <https://pubmed.ncbi.nlm.nih.gov/37338192/>

Co-author of the work:

Rael ED, Rivas JZ, Chen T, Maddux N, Huizar E, Lieb CS. Differences in fibrinolysis and complement inactivation by venom from different northern blacktailed rattlesnakes (*Crotalus molossus molossus*). Toxicon. 1997 Apr;35(4):505-13. doi: 10.1016/s0041-0101(96)00139-0. PMID: 9133705.

See website: <https://pubmed.ncbi.nlm.nih.gov/9133705/>

Co-author of Poster at World Congress:

Ligi D, Ferri M, Della Franca C, Rivas JZ, Barocci S, Mannello F. THE CRITICAL ROLE OF CIRCULATING HISTONES AS TRIGGERS OF THE CYTOKINE STORM IN PERIPHERAL WHOLE BLOOD. Poster Abstracts – WorldLab • EuroMedLab Roma 2023 – Rome, Italy, May 21-25, 2023 • DOI 10.1515/cclm-2023-7061. Clin Chem Lab Med 2023; 61, Special Suppl, pp S87 – S2222, May 2023.

Ligi D, Della Franca C, Rivas JZ, Mannello F. HISTONE-INDUCED ALTERATIONS IN HUMAN MONOCYTES: DOWN-REGULATION OF HYPER-INFLAMMATION BY AN HEPARINOID TREATMENT. Poster Abstracts – WorldLab • EuroMedLab Roma 2023 – Rome, Italy, May 21-25, 2023 • DOI 10.1515/cclm-2023-7041. Clin Chem Lab Med 2023; 61, Special Suppl, pp S87 – S2222, May 2023.

SEMINARS, INTERNSHIPS AND COURSES

- Training course with Title: Le competenze didattiche dei docenti universitari secondo il framework DigCompEdu. MOOC, University of Urbino Carlo Bo. issued on September, 17, 2024.
- Training course with Title: Documento di Valutazione dei Rischi – Palazzo Bonaventura. Performance date: 26/06/2024. Lecturers: Dr. Alessandro Gambarara, Dr. Raffaella Campana
- Training Course on the Risks of Exposure to Electromagnetic Fields. General training contents: general principles, health effects, EMF sources, direct and indirect effects, VA and VLE, risk assessment approach. University of Urbino Carlo Bo - A.A. 2020/2021, issued on March 25, 2022.
- General Safety Training Course for Workers. Contents of general training: concepts of risk, damage, prevention, protection, organization of company prevention, rights, duties and sanctions for various company subjects, supervisory, control and assistance bodies. University of Urbino Carlo Bo - A.A. 2020/2021, issued on March 24, 2022.
- Specific Hazards Training Course. Specific training contents: Workplaces; Microclimate, Lighting and Acoustics; Video Terminal Risks; Work-Related Stress; Manual Handling and Repetitive Movement of Loads; Fire Fighting; Chemical Agents; Electrical Risks; Machinery and Equipment Risks; Biological Agents; Physical Risk; First Aid. University of Urbino Carlo Bo - A.A. 2020/2021, issued on March 24, 2022.
- Course on Safety in the Biology Laboratory. Contents of general training: regulations, microorganisms, prevention and protection measures, prevention and protection measures in laboratories. University of Urbino Carlo Bo - A.A. 2020/2021, issued on March 24, 2022.
- Course on Safety in the Chemical Laboratory. Contents of general training: chemical agents, chemical laboratory, waste management, regulations. University of Urbino Carlo Bo - A.A. 2020/2021, issued on March 23, 2022.
- Workshop on Mutation and *In Vitro* Culture Techniques for the Improvement of Tropical Food Crops. University of Costa Rica, Costa Rica, July 2000.
- Training on the BAX System of Qualicon, based on the PCR technique, for the identification of human pathogens in food. FHIA, Honduras, July 2000.

- Laboratory course on the identification of pathogens related to lethal yellowing of coconut using the PCR Technique. "Escuela Agrícola Panamericana," El Zamorano, Honduras, April 2000.
- Seminar and Laboratory Course on Water Microbiology and Aspects Related to Environmental Microbiology. "Universidad del Valle de Guatemala," Guatemala, January 2000.
- Workshop and Laboratory Course on Coconut Biotechnology. CICY, Mérida, Mexico, November 1999.
- Second International Course on *In Vitro* Multiplication of Plant species and Fifth International Seminar in Plant Biotechnology. "Instituto de Biotecnología de las Plantas," Santa Clara, Cuba, June 1999.
- Individual training on the TAS-ELISA Technique applied to the detection of Banana Streak Virus in *Musa* cultivars. "University of Minnesota," St. Paul, Minnesota-USA, August 1998.
- Second National Congress of Internal Medicine. Main topics: Tropical diseases and advances in internal medicine, November 1992, Tegucigalpa, Honduras

AWARDS AND ACHIEVEMENTS

- Certificate of recognition for the efficient performance on professional duties, FHIA, Honduras, 15th of December 2000
- Member of the Golden Key National Honor Society for the outstanding scholastic achievement and excellence, Illinois, USA, 1991
- Awarded a Central America Peace Scholarship (CAPS), Agency for International Development to continue university studies (3 years) in the United States of America, 20th of May 1989

DRIVING LICENCE(S)

Italian driver license type **B**

ADDITIONAL INFORMATION

Some reference people:

- Prof. Ferdinando Mannello (Full Professor and Coordinator of the BHS PhD program at the University of Urbino.)
- Prof. Elena Barbieri (Associate Professor and Vice-coordinator of the BHS PhD program at the University of Urbino.)
- Dr. Luigi Balsamini (Referent for the Scientific Library at the University of Urbino Carlo Bo).

ANNEXES

N/A

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR

Serra, Sant'Abbondio, 15/03/2025
Julia Zulema Rivas