

CURRICULUM VITAE FORMATO EUROPEO

INFORMAZIONI PERSONALI

Nome
Indirizzo
Telefono
Fax
E-mail
Nazionalità
Data di nascita

ESPERIENZA LAVORATIVA

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

2019 – 2020

Asesoría Y Consultoría Ambiental AYCA.PRO S.A. de C.V.

Environmental consultancy

Intern

Taxonomy specialist for morphological identification of genus *Pinus*

ISTRUZIONE E FORMAZIONE

- Date (da-a)
- Nome e tipo di istituto di istruzione o formazione
- Principali materie / abilità professionali oggetto dello studio
- Qualifica conseguita

2023 - 2025

Unviersité Libre de Bruxelles, Vijre Universiteit Brussles, and Università degli Studi di Firenze

M. Sc. Erasmus Mundus Joint Master Degree in Tropical Biodiversity and Ecosystems

Master Diploma in Tropical Ecosystems and Biodiversity

Thesis title: Forgotten gems from hidden caves: uncatalogued freshwater Brachyura in La Specola Museum collected from Philippine caves (1897-2017).

2020 – 2023

Universidad Nacional Autónoma de México

Posgrado en Ciencias Biológicas

Master Diploma in Biological Sciences with specialization in Systematics (**Honors**) 10/10

Thesis title: Revision of the species complex of *Pseudothelphusa americana* Saussure, 1857 (Decapoda; Pseudothelphusidae).

2015 – 2020

Universidad Autónoma de Tlaxcala

Bachellor in Biology

Bachellor Diploma in Biology (**Honors**) 9.8/10

Thesis title: Taxonomic problems regarding the classification of *Paranomala villosella* (Blanchard, 1850) (Coleoptera; Melolonthidae; Rutelinae; Anomalini).

CAPACITÀ E COMPETENZE PERSONALI

MADRELINGUA	SPANISH
ALTRE LINGUA	
• Capacità di lettura • Capacità di scrittura • Capacità di dialogo	English EXCELLENT EXCELLENT EXCELLENT
• Capacità di lettura • Capacità di scrittura • Capacità di dialogo	FRENCH INTERMEDIATE INTERMEDIATE INTERMEDIATE
CAPACITÀ E COMPETENZE RELAZIONALI.	IMPARTED WORKSHOPS 2019 – Invited, as a lecturer, by the Universidad Nacional Autónoma de México, Colegio de Ciencias y Humanidades to teach the course: <i>Biodiversidad biológica de los insectos del parque nacional la malinche: análisis en diferentes ambientes</i> . 4-7 december, 2019. 2017 – Invited, as a lecturer, by the Universidad Nacional Autónoma de México, facultad de Ciencias to teach the course: <i>Myxomycetes</i> . 23 october, 2017. 2015 – Invited, as a lecturer, by the Universidad Veracruzana, Facultad de Biología, to teach the course: <i>Colecta de de mariposas nocturnas de la Malinche</i> . 20 april, 2015.
CAPACITÀ E COMPETENZE ORGANIZZATIVE	CONGRESS ORGANIZATION 2017 – Staff member in the <i>II Foro de Investigación en el CICB UATx. Presentación de avances de Proyecto por los alumnos de la Maestría en Biotecnología y Manejo de Recursos Naturales</i> , organized by the Centro de Investigación en Ciencias Biológicas, Universidad Autónoma de Tlaxcala. 28 november, 2017. 2016 – Staff member in the <i>Simposio de Actividad Integradora</i> , organized by the Universidad Autónoma de Tlaxcala, 25 november, 2016.
	SCIENCE OUTREACH WORKSHOPS 2018 – Invited to give the public workshop: <i>Myxomycetes</i> , at Feria de los tesoros de Tlaxcala, local fair. 19 agosto, 2018. 2018 – Invited to give the public workshop: <i>Myxomycetes</i> , at Papalotla local fair. 29 september, 2018. 2018 – Invited to give the preschool children workshop: <i>Myxomycetes</i> , at Colegio Sor Juana Inés de La Cruz A.C. 20 april, 2018. 2017 – Invited to give the primary and secondary school workshop: <i>Plants and Insects</i> , at Escuela secundaria tecnica No.51.Tlacomulco, Ocotlán, Tlaxcala. 22 noviembre, 2017.
	MOBILITY AND INTERSHIPS 2025 – Visit to the Laboratory of Prof. Jean-Francois Flot, for training on the Feulguen Image Densitometry protocol for genome size estimations. 2025 – Internship entitled: <i>Species delimitation methods for a DNA Barcoding Library of East African Mangrove Crabs (Decapoda, Brachyura)</i> , at the Crustacean Collection in La Specula Museum and Prof. Sara Fratini laboratory at the Università degli Studi di Firenze, under the supervision of Prof. Sara Fratini and Dr. Alessio Iannucci. 2024 – Visiting Researcher (7 days) at the Zoological Reference Collection (ZRC), Lee Kong Chian Natural History Museum, under the supervision of Dr. J.C. Mendoza and Dr. P.K.L. Ng, focusing on the study of Southeast Asian cave-dwelling freshwater crabs. 2018 – Internship in the laboratory of Prof. Lee Taylor, as part of the COMEXUS Undergraduate Research Opportunity Program, sponsored by the U.S.-Mexico Commission for Educational and Cultural Exchange and the University of New Mexico.

CAPACITÀ E COMPETENZE TECNICHE

TECHNICAL COMPETENCES

Experience in computational and laboratory approaches for evolutionary biology and systematics, with proficiency in **R**, **Bash**, and **Geographic Information Systems** (QGIS, ArcGIS). Familiar with **species delimitation methods** (ABGD, GMYC, ASAP, bPTP), haplotype networks, and phylogenetic inference using IQ-TREE, RAxML, and BEAST. Skilled in **DNA sequence curation and analysis**, as well as in the **morphological identification and classification** of freshwater crabs from the families **Pseudothelphusidae de Saussure, 1857**, **Gecarcinucidae Rathbun, 1905**, and **Potamidae Bott, 1896**. Experience with **DNA extraction** (phenol-chloroform and commercial kits), PCR amplification, and **genome size estimation via Feulgen Image Densitometry (FIAD)**. Able to combine molecular and morphological data to support research in taxonomy, phylogeography, and biodiversity studies.

ALTRE CAPACITÀ E COMPETENZE

AWARDS

1° place for best presentation: **Madrigal Ferrer K.J.**, Rodríguez Palma M.M, and Pérez Florez, G.A. Diversidad de la mixobiota presente en diferentes asociaciones vegetales del Parque Nacional Lagunas de Montebello, Chiapas, México. 5th Simposio de Actividad Integradora Y Avances de Investigación, Universidad Autónoma de Tlaxcala, Mexico; 27 november 2018.

1° place for best presentation: **Madrigal K.J.** Especies crípticas o variación fenotípica ¿es verdaderamente *Pseudothelphusa americana* (Crustacea: Decapoda: Brachyura) un complejo específico?. XXV Congreso Nacional de Zoología, Mexico City, October, 2022.

(Grant) COMEXUS Undergraduate Summer Research Program Grant, U.S.-Mexico Comission for Education and Cultural Exchange.

(Grant) Erasmus+: Erasmus Mundus Partner Country Scholarship Award for the Erasmus Mundus Joint Master Degree in Tropical Biodiversity and Ecosystems – TROPIMUNDO.

Academic Excellence Award given by the Universidad Autónoma de Tlaxcala, for finishing with the highest mark of the 2015-2019 generation.

PUBBLICAZIONI SCIENTIFICHE

(2025) **Madrigal, K.J.**, Villalobos-Hiriart, J.L. & Álvarez, F. Integrative taxonomic analysis of the *Pseudothelphusa americana* de Saussure, 1857 species complex with the description of three new species (Decapoda, Pseudothelphusidae, Pseudothelphusinae). *Zootaxa*, 5659(1), 1-28.

(2023) **Madrigal, K.**, Zaragoza-Caballero, S., & Ramírez-Ponce, A. Comparative morphology of the genera with perpendicular parameres in Anomalini (Coleoptera, Scarabaeidae, Rutelinae) allows revalidation of the endemic Mexican genus *Lamoana* Casey, 1915 stat. rev. *European journal of taxonomy*, 910, 175-199.

COMUNICAZIONI A CONGRESSI NAZIONALI ED INTERNAZIONALI

SPEAKER IN NATIONAL AND INTERNATIONAL CONGRESS

Madrigal, K.J. Especies crípticas o variación fenotípica ¿es verdaderamente *Pseudothelphusa americana* (Crustacea: Decapoda: Brachyura) un complejo específico? Speaker in the XXV Congreso Nacional de Zooloxía organized by the Sociedad Mexicana de Zoología, A.C. October, 2022.

Madrigal, K.J. Unraveling the *Pseudothelphusa americana* (Crustacea: Decapoda: Brachyura) species complex. Speaker in the 5th Standalone Meeting of The Society of Systematic Biologist.

ULTERIORI INFORMAZIONI

Il sottoscritto, consapevole che – ai sensi dell'art. 76 del D.P.R. 445/2000 – le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali, dichiara che le informazioni rispondono a verità.

Il sottoscritto in merito al trattamento dei dati personali esprime il proprio consenso al trattamento degli stessi nel rispetto delle finalità e modalità di cui all'art. 106/2013

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