

Camila Castillo-Vilcahuaman

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Education

Technical Degree in Computation and Informatics CIBERTEC – Lima, Peru	2021 - 2025
MSc. Biochemistry and Molecular Biology Universidad Peruana Cayetano Heredia – Lima, Peru	2020 - 2022 <i>Defense: May 2025</i>
BSc. Biology Universidad Peruana Cayetano Heredia – Lima, Peru	2013 - 2017

Teaching

Bioinformatics Workshops (Assistant) MSM Course – Santiago, Chile	2024
Bioinformatics Workshops (Instructor) Sociedad Peruana de Bioinformática – Lima, Peru	2024
Molecular Epidemiology – WGS Workshop (Instructor) Unidad de Epidemiología Molecular - UPCH – Lima, Peru	2024
Bioinformatics – Faculty of Biology (Teaching Assistant) Universidad Nacional Mayor de San Marcos – Lima, Peru	2023
General Microbiology – Faculty of Sciences and Engineering (Teaching Assistant) Universidad Peruana Cayetano Heredia – Lima, Peru	2022
Molecular Biology for Engineers – Faculty of Sciences and Engineering (Teaching Assistant) Universidad Peruana Cayetano Heredia – Lima, Peru	2021

Research Experience

Research Internship Fundación Ciencia y Vida – Santiago, Chile	2024 - 2025
Graduate Student Universidad Peruana Cayetano Heredia – Lima, Peru	2021 - 2023
Research Assistant Instituto Nacional de Salud del Niño - Lima, Peru	2018 - 2019
Undergraduate Student Universidad Peruana Cayetano Heredia – Lima, Peru	2018 - 2021

Professional Work

SEO Implementation Specialist ZenBusiness – Remote, United States	2023 - 2024
Junior Web Developer	2022 – 2023

Publications

Articles

Ayzanoa, B., Castillo-Vilcahuaman, C., Salvatierra, G., Dávila-Barclay, A., Huancachoque, J., Calderón, M., ... & Tsukayama, P. (2025). Genomic Surveillance of Multidrug-Resistant *E. coli* and *Klebsiella* in Clinical And Wastewater Isolates From a Pediatric Hospital in Lima, Peru. *Access Microbiology*, 001006-v1.

Palomino Huarcaya RA, Castillo-Vilcahuaman C, Martel-Torres SB et al. (2024) Comparative Genomics of Genes for rhamnolipid synthesis and monoaromatic hydrocarbon tolerance in environmental strains of *Pseudomonas aeruginosa* [version 1; peer review: 1 approved, 1 approved with reservations]. *F1000Research* 2024, 13:1519 (<https://doi.org/10.12688/f1000research.158761.1>)

Romero, P. E., & Castillo-Vilcahuaman, C. (2021). Data mining of DNA sequences submitted by Peruvian institutions to public genetic databases. *Revista peruana de biología*, 28(1), e17867-e17867.

Romero, P. E., Calla-Quispe, E., Castillo-Vilcahuaman, C., Yokoo, M., Fuentes-Rivera, H. L., Ramirez, J. L., ... & Wong, P. (2021). From the Andes to the desert: 16S rRNA metabarcoding characterization of aquatic bacterial communities in the Rimac river, the main source of water for Lima, Peru. *PloS one*, 16(4), e0250401.

Murray, M., Salvatierra, G., Dávila-Barclay, A., Ayzanoa, B., Castillo-Vilcahuaman, C., Huang, M., ... & Tsukayama, P. (2021). Market chickens as a source of antibiotic-resistant *Escherichia coli* in a Peri-urban community in Lima, Peru. *Frontiers in microbiology*, 12, 635871.

Castillo-Vilcahuaman, C., Valdivia, C., Osorio-Mogollón, C., Silva-Andrade, C., Puche, R., Ayala-Ruano, S., ... & Parra, R. G. (2020). 4th ISCB Latin American Student Council Symposium: a virtual and inclusive experience during COVID-19 times. *F1000Research*, 9.

Poster and Oral Presentations

Genomic Characterization of <i>Bartonella</i> Species Associated with Carrion's Disease: Insights into Evolution and Virulence	2024
Bacterial community composition of the Rimac river, the main water source for Lima, Peru	2020
Analysis of bacterial DNA sequences submitted by Peruvian institutions to public databases	2020
Poultry as a Source of Antibiotic-Resistant <i>Escherichia coli</i> in a Peri-urban Slum in Lima, Peru	2020
Microorganismos en transporte público en Lima-Metropolitana	2016

Honors

ISMB2024 EvolCompGen Best Poster – Genomic Characterization of Bartonella Species Associated with Carrion’s Disease: Insights into Evolution and Virulence **2024**

Montreal, Canada

ISMB2024 EvolCompGen Travel Fellowship **2024**

Montreal, Canada

First Place in NASA Space Apps Challenge (Universidad Católica Santa María) **2022**

Arequipa, Peru

First Place in StartUp Laboratory **2021**

Lima, Peru

Professional Membership

ISCB Student Membership **2024**

Sociedad Peruana de Bioinformática - Peruvian Society for Bioinformatics (Founding Member) **2021 - present**

Regional Student Group Peru – ISCB Student Council **2019 - present**