

Jeremy Rodrigo Guerrero Alejos

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Date of birth: 04/20/1997

Bioengineering student. In the third year of my career in the upper fifth of my faculty. Eager to participate and work as a team within scientific research and development of innovative technology. I am interested in the development of my community through sustainable solutions in the agroindustry and waste management to boost the bio and circular economy.

Education

Universidad de ingeniería y Tecnología (UTEC)

Lima, Peru

Undergraduate student. Percentile: Top 20%.

GPA Perú: 16.46 / GPA USA: 4

Aug. 2018-Current

Research experience

Development of polystyrene biodegradation process using Tenebrio Mollitor microbiota

Review: in this project we worked in the design of bioreactor capable of sustaining the live of Exiguobacterium sp. strain YT2.

May 2019-Current

Universidad de Ingeniería y Tecnología

Bioink production based on aginate, pectin and collagen for 3D bioprinting.

Tissue Engineering Laboratory. Paper soon to publish.

PI: Luz Narciza Mercedes Pérez Tulich

Jan. 2019-Jan. 2020

Polystyrene biodegradation process using limonene and genetically modified E. coli to minimize its environmental impact

PI: Alberto Donayre

Review: The bio-degradation process through genetically modified E.coli using mutated TOD operon and recycled limonene to obtain an economically sustainable process

April 2020-July 2020

Extracurricular activities

➤ **Institute Aprender Creando**

Teacher in the course: "Introduction to programming language with Python"

Mar. 2020 - Current

➤ **BIOUTEC**

Group of student's which goal is to promote the development of synthetic biology and DIY laboratory experiences.

Position: Active member.

Aug. 2018 - Current

➤ **SBE UTEC Student Chapter**

Apr. 2019 – Sept. 2020

Student Chapter created with the purpose of promoting Bioengineering areas such as: bioprocesses and bio-entrepreneurship.
Position: Head of the public relations.

➤ **UTEC Academic Mentor**

Course Introduction to Computer Science

Mar. – Jul. 2019

International experience

Allbiotech Summit

Chosen to be one of the 100 leaders in biotechnology in Latin America that is going to be celebrated in May of 2021

Sep 2020

Intern in Case School of Engineering at Case Western Reserve University

Virtual Summer Internship

May – Aug. 2020

Intercultural Innovation Challenge

UTEC and Purdue University

Three-day session that gave me the opportunity to develop the skill of intercultural empathy

Aug. - Dec. 2019

Awards and Presentations

Scientific Photography Contest

Catalyst Student Chapter MX

2nd Place for the photography “Fluorescence Mesenchymal Cells”

May 2020

StartupWeekend Peru Sustainability Challenge

Teachstars

3rd place for “Shaini: consultancy for the implementation of a process for biodegradation of plastic”

Aug. 2019

Misión Peruana a Marte

INRA-PUCP

First Place in the Biomedical Area.

May 2019

Skills and interests

- Laboratory experience:
 - Tissue Engineering: use of 3D Bioprinter, 3D model development, stem to bone cells differentiation protocol, Mesenchymal stem cell culture.
 - Microscopy: use of fluorescence microscope.

- Languages:
 - English Proficiency
 - Basic French
 - Native Spanish

- Interests:
 - Physical activities: Kendo, Tae Kwon Do and Athletics.
 - Hobbies: Peruvian gastronomy and reading.