

KIMBERLY GRACE SEVILLANO COLINA

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EXPERIENCE

Master thesis Internship

CNRS-AIST JRL (Joint Robotics Laboratory), IRL

Feb. 2024 - Oct. 2024 Tsukuba, Japan

- Developing and calibrating a hybrid fisheye-depth camera system for 3D mapping and SLAM. Using neural networks for depth prediction and AI techniques to enhance localization accuracy.

Data Intelligence Specialist

Ferreyros S.A.

Sep. 2021 - Sep. 2022 Lima, Peru

- Processed and modeled mining equipment health data using AI for analytics and reporting

Research Leader - Computer Vision

Lab Smart Machines CTIC-UNI (Information Technology and Communications Center)

Jan. 2021 - Mar. 2022 Lima, Peru

- Led the detection of crop pests and diseases for the Berry-bot project using AI.

Electronic researcher

INAIGEM (National Institute for Research in Glaciers and Mountain Ecosystems)

Jul. 2019 - Jan. 2021 Huaraz, Peru

- Development of a real-time avalanche sound detection system using AI algorithms.

Research Internship

INICTEL-UNI (National Institute of Research and Training in Telecommunications)

May. 2018 - May. 2019 Lima, Peru

- Developed a method for segmenting and measuring water palm areas in UAV images using deep learning.

PUBLICATIONS

Journal Articles

- Morales, G., Kemper, G., Sevillano, G., Arteaga, D., Ortega, I., & Telles, J. (2018). Automatic segmentation of mauritia flexuosa in unmanned aerial vehicle (uav) imagery using deep learning. *Forests*, 9(12). doi:10.3390/f9120736

LANGUAGES

Spanish

English

French



TECHNICAL SKILLS

Python, C/C++, MATLAB, SQL Git, Linux, \LaTeX

Pandas, NumPy, SciPy OpenCV, VISP, libPer

ROS, Machine Learning, Deep Learning

GANs, 3D Vision, SLAM, Point Cloud Processing

TensorFlow, PyTorch, Scikit-learn

3D/4D Reconstruction

Raspberry Pi, Jetson Nano, Arduino Platform

EDUCATION

M.Sc. in Signal and Image Processing with specialization in Computer Vision and Robotics (VIBOT)

University of Burgundy

Sep. 2022 - Sep. 2024 France

B.Sc. in Electronic Engineering

Universidad Nacional de Ingeniería (UNI)

Mar. 2013 - Jul. 2018 Peru

ADDITIONAL EDUCATION

MITx MicroMasters in Statistics and Data Science

Funded by Aporta as part of the Advanced Program in Data Science & Global Skills

May. 2021 Online (USA)

- The program provided MIT's rigorous, high-quality curricula. It lasts 18 months, with courses about data science, statistics and ML.

BI MASTER - Business Intelligence Master

Laboratório de Inteligência Computacional Aplicada

Sep. 2020 Online (Brasil)

- Postgraduate diploma focusing on Artificial Intelligence (AI): Machine Learning, Big Data, Python and Statistics.

HONORS & AWARDS



UBFC International Masters Merit Scholarship Sep. 2023

Awarded a merit scholarship for ranking in the top three of the first year in the VIBOT Master program.



Scholarship for the "Alberto Benavides de la Quintana - French Embassy 2022" [top 4%] Feb. 2022

Winner of the 'Alberto Benavides de la Quintana - French Embassy 2022' master's scholarship.



QING Innovation Track - Competition for Climate Adaptation in Food Systems [top 5%] Oct. 2021

As part of Team Berry-bot we won funding and obtained the top 5 of the Qing Innovation track (Netherlands).



Scholarship for the "Advanced Program in Data Science & Global Skills" [top 8%] May. 2021

Winner of a scholarship for the "Advanced Program in Data Science & Global Skills", hosted by MIT and Aporta.



Bolsa de Pós-Graduação BI Master 2020.2 - Lab. ICA - Puc Rio Sep. 2020

Winner of one of the scholarships of the BI MASTER postgraduate program.



French Alliance Fellowship Aug. 2020

Winner of one of the 100 national scholarships offered by the French Embassy to study the French language.

VOLUNTEER WORK



Data Science Women 04/20 - 12/20

Led the programming team focused on empowering women in data science, AI, and technology sectors.



Vice Chair IEEE Circuits and Systems 05/17 - 05/18

Supported UNI undergraduates in the development and research of circuits and systems projects.



Vice Chair IEEE Women in Engineering 07/16 - 03/17

Co-founded IEEE WIE UNI, advancing women-led interdisciplinary projects.