

# Kimberly Grace Sevillano Colina

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## EDUCATION

<b>University of Burgundy</b> <i>EIPHI Graduate School Engineering, Physics and Sciences for Innovation and Research</i> M.Sc. in Signal and Image Processing with specialization in Computer Vision and Robotics (VIBOT)	Sep. 2022 – Sep. 2024 <i>Burgundy, France</i>
<b>Universidad Nacional de Ingeniería</b> <i>School of Electrical and Electronic Engineering</i> B.Sc. in Electronic Engineering	Mar. 2013 – Jul. 2018 <i>Lima, Peru</i>

## ADDITIONAL EDUCATION

<b>MITx MicroMasters in Statistics and Data Science</b> <i>Funded by Aporta as part of the Advanced Program in Data Science &amp; Global Skills</i> The program provided MIT's rigorous, high-quality curricula. It lasts 18 months, with courses about data science, statistics and ML.	May. 2021 <i>(Online) USA - Peru</i>
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## EXPERIENCE

<b>Research Assistant (Master Thesis)</b> <i>CNRS-AIST JRL (Joint Robotics Laboratory), IRL</i> 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.	Feb. 2024 – Sep. 2024 <i>Tsukuba, Japan</i>
<b>Data Intelligence Specialist</b> <i>Ferreiros S.A.</i> Part of the analytics and reportability team that is responsible for processing, analyzing and modeling mining equipment health data using A.I..	Sep. 2021 – Sep. 2022 <i>Lima, Peru</i>
<b>Computer vision Engineer/Internship</b> <i>TECH INNOVATION S.A.C.</i> Collaborated in a team to develop real-time object detection systems for automatic identification of bags on conveyor belts.	May. 2021 – Sep. 2021 <i>Lima, Peru</i>
<b>Electronic researcher</b> <i>INAIGEM (National Institute for Research in Glaciers and Mountain Ecosystems)</i> Developed an electronic prototype that detected avalanches' sound in real-time with A.I. algorithms.	Jul. 2019 – Jan. 2021 <i>Huaraz, Peru</i>
<b>Research Internship</b> <i>INICTEL-UNI (National Institute of Research and Training in Telecommunications)</i> Member of the team where a method of segmentation and measurement of areas covered by water palm in aerial images acquired by drones or UAV.	May. 2018 – May. 2019 <i>Lima, Peru</i>
<b>Internship Presales Engineer</b> <i>Telefónica del Perú</i> Member of the Pre-Sales Engineering and IT solutions team.	Nov. 2017 – May. 2018

## HONORS & AWARDS

<b>UBFC International Masters Merit Scholarship</b> • Awarded a merit scholarship for ranking in the top three of the first year in the VIBOT Master program.	Sep. 2023
<b>Scholarship for the “Alberto Benavides de la Quintana - French Embassy 2022”</b> [top 4 %] • Winner of the “Alberto Benavides de la Quintana - French Embassy 2022” master's scholarship.	Feb. 2022
<b>QING Innovation Track - Competition for Climate Adaptation in Food Systems</b> [top 5 %] • As part of Team Berry-bot we won funding and obtained the top 5 of the Qing Innovation track.	Oct. 2021
<b>Scholarship for the “Advanced Program in Data Science &amp; Global Skills”</b> [top 8 %] • Winner of a scholarship for the “Advanced Program in Data Science & Global Skills”, hosted by MIT and Aporta.	May. 2021
<b>Bolsa de Pós-Graduação BI Master 2020.2 - Lab. ICA - Puc Rio</b> • Winner of one of the scholarships of the BI MASTER postgraduate program of the Computational Intelligence Laboratory	Sep. 2020
<b>French Alliance Fellowship</b> • Winner of one of the 100 national scholarships offered by the Alliance French and the French Embassy to study the French language	Aug. 2018
<b>Project idea contest</b> • Third post at technical level II. “Fingerprint translator in real time”	Aug. 2015

## PUBLICATIONS

Morales, G., Kemper G., **Sevillano G.**, Arteaga D., Ortega I., and Telles J. (2018). Aug. 2018  
“*Automatic Segmentation of Mauritia flexuosa in Unmanned Aerial Vehicle (UAV) Imagery Using Deep Learning*”.  
In: Forests 9.12. Doi: 10.3390/f9120736

## CERTIFICATIONS & RELEVANT COURSES

”**Montreal Robotics Summer School 2025**” Aug. 2025  
• Attended at Mila – Quebec AI Institute. Selected among 25 participants worldwide for a robotics and AI program.

”**6.419x: Data Analysis: Statistical Modeling and Computation in Applications**” Sep. 2022  
• by MITx.

”**18.6501x: Fundamentals of Statistics**” May. 2022  
• by MITx.

”**6.86x: Machine Learning with Python-From Linear Models to Deep Learning**” Nov. 2021  
• by MITx.

”**6.431x: Probability - The Science of Uncertainty and Data**” Sep. 2021  
• by MITx.

”**Summer School NMA-Deep Learning**” Aug. 2021  
• by Neuromatch Academy.

”**Neural Networks and Deep Learning**” 2019  
• by deeplearning.ai on Coursera.

”**Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization**” 2019  
• by deeplearning.ai on Coursera.

”**Structuring Machine Learning Projects**” 2019  
• by deeplearning.ai on Coursera.

”**Certificate in Linux Programming**” Oct. 2016 – Jan. 2017  
• India Peru center of Excellence in information Technology (IPCEIT).

”**Certificate in C++ Programming**” Apr. 2016 – May. 2016  
• India Peru center of Excellence in information Technology (IPCEIT).

## VOLUNTEER WORK

**Volunteer at ICCV 2023 (International Conference on Computer Vision)** Oct. 02 – Oct. 06, 2023  
Assisted in organizing and facilitating sessions at a leading computer vision conference, supporting international attendees.

**Volunteer Research Leader (Berry-bot) - Computer Vision** Jan. 2021 – Mar. 2022  
*Lab Smart Machines CTIC-UNI (Information Technology and Communications Center)*  
Led the Rover farmer project, responsible for detecting pests and diseases in blueberry crops.

**Data Science Women** Apr. 2020 – Dec. 2020  
Leader of the programming team that educates, inspires and empowers more women in data science and AI.

**Vice Chair IEEE Circuits and Systems – Universidad Nacional de Ingeniería** May. 2017 – May. 2018  
Promoted the development of circuits and systems research projects by the undergraduate students of UNI.

**Vice Chair IEEE Women in Engineering – Universidad Nacional de Ingeniería** Jul. 2016 – Mar. 2017  
Co-Founder of the IEEE WIE UNI. Promoted the development of interdisciplinary projects led by women.

## LANGUAGES

**Spanish**(native)                      **English [C1]**(advanced)                      **French [B1]**(Intermediate)

## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, C++, C, MATLAB, SQL
<b>Machine Learning &amp; AI</b>	PyTorch, TensorFlow, Scikit-learn, Deep Learning for Vision and Behavior Modeling
<b>Human-Robot Interaction</b>	ROS, ROS2, SLAM algorithms, 3D Perception, Point Cloud Processing, Multimodal Sensor Fusion
<b>Computer Vision</b>	OpenCV, VISP, libPer, Visual Tracking, Object Detection
<b>Simulation &amp; Control</b>	Isaac Sim/Lab (AWS EC2 deployment, NVIDIA Omniverse, ROS2 integration), Gazebo, RViz
<b>Data Analysis &amp; Optimization</b>	NumPy, Pandas, SciPy, Numerical Optimization
<b>Hardware Prototyping</b>	Jetson, Raspberry Pi, Arduino Platform
<b>Development Tools</b>	Git, Linux, Docker