

Kimberly Grace Sevillano Colina

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EDUCATION

University of Burgundy Sep. 2022 – Present
M.Sc. in Signal and Image Processing with specialization in Computer Vision and Robotics Burgundy, France

Universidad Nacional de Ingeniería (UNI) Mar. 2013 – Jul. 2018
B.Sc. in Electronic Engineering Lima, Peru

ADDITIONAL EDUCATION

MITx MicroMasters in Statistics and Data Science May. 2021 – May. 2023
Funded by Aporta as part of the Advanced Program in Data Science & Global Skills USA - Online
The program provided MIT's rigorous, high-quality curricula. It lasts 18 months, with courses about data science, statistics and machine learning.

BI MASTER - Business Intelligence Master Sep. 2020
Laboratório de Inteligência Computacional Aplicada (ICA PUC-RIO) Rio, Brasil - Online
Postgraduate diploma focusing on Artificial Intelligence (AI): Machine Learning, Big Data, Python and Statistics.

EXPERIENCE

Master thesis Internship Feb. 2024 – Present
CNRS-AIST JRL (Joint Robotics Laboratory), IRL Tsukuba, Japan
Will engineer and calibrate an advanced dual-fisheye and RGB-D camera system with custom software development, aiming to create and train a neural network for accurate depth prediction in spherical fields-of-view, optimized for robotic applications.

Data Intelligence Specialist Sep. 2021 – Sep. 2022
Ferreyros S.A. Lima, Peru
Part of the analytics and reportability team that is responsible for processing, analyzing and modeling mining equipment health data using A.I..

Computer vision Engineer/Internship May. 2021 – Sep. 2021
TECH INNOVATION S.A.C. Lima, Peru
Collaborated in a team to develop real-time object detection systems for automatic identification of bags on conveyor belts.

Research Leader - Computer Vision Jan. 2021 – Mar. 2022
Lab Smart Machines CTIC-UNI (Information Technology and Communications Center) Lima, Peru
Team leader (artificial vision area) of the Rover farmer project, in charge of the detection of pests and diseases in the crop (blueberries) through image and video in real-time.

Electronic researcher Jul. 2019 – Jan. 2021
INAIGEM (National Institute for Research in Glaciers and Mountain Ecosystems) Huaraz, Peru
Developed an electronic prototype that detected avalanches' sound in real-time with A.I. algorithms.

Research Internship May. 2018 – May. 2019
INICTEL-UNI (National Institute of Research and Training in Telecommunications) Lima, Peru
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 was being worked. (*Digital Signal and Imaging Processing Area*)

Internship Presales Engineer Nov. 2017 – May. 2018
Telefónica del Perú Lima, Peru
Member of the Pre-Sales Engineering and IT solutions team.

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

HONORS & AWARDS

- UBFC International Masters Merit Scholarship**[top 3%] 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.
- 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 of the Computational Intelligence Laboratory
- Mentoring Program Scholarship** Mar. 2020
- Winner of the SERENDIPITY Science Mentoring Cohort 2020
- "Summer school in NLP and MT"** Jan. 2020
- Winner of the 30 national scholarships offered by Artificial Intelligence Group - PUCP.
- French Alliance Fellowship** Aug. 2020
- Winner of one of the 100 national scholarships offered by the Alliance French and the French Embassy to study the French language
- Project idea contest** Aug. 2015
- Third post at technical level II. "Fingerprint translator in real time"

INVITED TALKS

- "Master's journey funded by the 'ABQ - French Embassy' scholarship".** Dec. 2023
- Invited by Patronato UNI (Peru) and Campus France Peru.
- "UNI Experience - Electronic Engineering".** Dec. 2022
- Given at the Universidad Nacional de Ingeniería (UNI) as part of a series of professional talks, which was organized by Inspírate UNI.
- "Insights and strategies for securing the ABQ - France scholarship".** Nov. 2022
- Given at the event 'Electronic Week 2022', organized by the Pedro Paulet student center of the FIEE - UNI.
- "Panel : Challenges and opportunities of working in the data science world".** Mar. 2022
- Invited by WiDS (Women in Data Science) Lima 2022 and BREIT.

CERTIFICATIONS & RELEVANT COURSES

- "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.

”Building Transformer-Based Natural Language Processing Applications”	2021
• by NVIDIA DLI Workshop.	
”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.	
Probability and Stochastic Processes Course	May. 2018
(INICTEL-UNI)(<i>Course</i>)	
Remote Sensing Workshop Course: Big Data and Machine Learning Applications	Jul. 2017
(CAFAE INICTEL-UNI)(<i>Course</i>)	
”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) - Paris	02 - 06 Oct. 2023
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 [B2] (advanced)	French [A2] (basic)
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TECHNICALS SKILLS

Software	: Machine Learning Frameworks (PyTorch, Tensorflow/Keras), Python, C/C++, OpenCV, R, ROS, Matlab, SQL, L ^A T _E X, Eagle, LTspice, Proteus, Power BI.
Hardware	: Electronic instrumentation, Jetson Nano, Raspberry Pi, Arduino Platform, ESP32.