William Berrios

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G Github Personal Website

RESEARCH INTERESTS

My research interests lie in building robust and generalizable computer vision systems with minimal or no supervision. Specific areas of interest are representation learning, unsupervised learning, few-shot learning and robotics

EDUCATION

National University of Engineering, Peru

Mar.14 - Dec.19

B.S. Mechatronics Engineering (Robotics)

Cumulative GPA: 4.0/4.0

Summa Cum Laude. Rank 1/72

Hochschule Furtwangen University, Germany.

Sep.18 - Feb.19

International exchange program.

Courses: Deep Learning, Robotics, IoT, Control Systems

RESEARCH EXPERIENCE

Artificial Intelligence Fellow - Pi School

May. 21 - June 21

Translated - Rome, Italy

Mentor: Sébastien Bratières

- · Increased the conversion rate of translation offers by implementing a request translation algorithm and NER system for detecting contact and bussiness information using transfomer models.
- · 🗗 Video Presentation

Research Intern Jan. 21 - Apr. 21 Advisor: Elisabeta Marai

Electronic Visualization Laboratory, University of illinois at Chicago - USA

· Developed a deep active learning framework to help curators efficiently labeling biomedical images that appear in scientific papers. Paper in progress

Undergraduate Researcher in Robotics & AI

Jan 18 - Aug. 19

Advisor: Alberto Coronado

Intelligent Systems Lab, Lima, Peru

· Developed a comparison of traditional and machine learning methods for evaluating the health condition of bearings presented in mechanical systems

· Implemented a prototype of an autonomous mobile robot for parking surveillance using path planning algorithms and an object detection algorithm for recognizing license plates.

INDUSTRY EXPERIENCE

Data Science Intern

Sep 19 - Dec 20

Pichincha Bank, Lima - Peru

- · Increased productivity of bussiness areas by implementing machine learning models for loan default prediction, credit card customer behavior and debt collection management.
- · Trained 5 co-workers from the Advanced Analytics team in Python, Machine Learning and MLops.

ANTADDO 0 HONODO

AWARDS & HONORS	
AWARDS	
Honored by the Ministry of Education - Peru In recognition for outstanding participations at international machine learning competitions.	2021
Accepted at MLSS and LxMLS summer schools Accepted as poster presenter at EEML Summer School Poster Presentation	2021 2021
Dean's list for Mechatronics Engineering at National University of Engineering Baden - Württemberg Scholarship Awarded \$7500 to study at HFU in Germany as an exchange student.	2019 2018

Eduardo de Habich Prize Highest honor given to undergraduates at National University of Engineering.	2017
COMPETITIONS	
1st Place at BCI Machine Learning Competition Rank 1/400 participants (15+ countries). Organized by BCI Bank. Awarded by \$3600	2021
Silver Medal at Ventilator Pressure Prediction Rank $122/2605$ participants aroung the world (Top 5%). Organized by Google Brain and Kaggle.	2021
1st Place at WIDS Bay Area Datathon Organized by WIDS (Standford) and Google Cloud team	2021
1st Place at BNP Machine Learning Competition Rank 1/100 participants. Organized by BNP Paribas Cardiff and Domino DataLab.	2021
2nd Place at International Interbank Datathon Rank 2/229 participants - LATAM. Organized by Interbank - Peru. Awarded by \$6000 dollars.	2021
1st Place at BanColombia Datathon Rank 1/80 teams - LATAM. Organized by Group BanColombia. Awarded by \$2000 dollars.	2021
Finalist at the ERC space and robotics competition Part of the Robotics and AI team from KAMAYUC. Organized by European Rover Challenge.	2020
SERVICE	
ACADEMIC	
Organizer and Sponsorship Chair LatinX in AI Workshop at @ ICML'21	2021
Moderator and Technical Support LatinX in AI Workshop at @ CVPR'21	2021
COMMUNITY & SOCIAL	
Organizer and Moderator - <i>REPU CS Day</i> Set of talks in which graduate students, postdocs and professors from UIC, Oxford, Purdue, MIT and oth shared their research in computer science.	2021 per institutions
Teaching Assistant - Cross Cultural Engagement Program with Penn State Training program in IoT and web applications aimed at 15 students from Penn State University. Org National University of Engineering with the support of the United States Embassy.	2019 ganized by the
SELECTED PROJECTS	
Deep Active Learning Segmentation of Defaults in Steel Surfaces - Evaluation of uncertainty sampling algorithms for efficient labeling of segmentation mask on steel defection. - Mentor: Phd. Paul Cardenas	1 - In Progress ets images.
Automatic review of reports for the Telecommunications industry · Implemented an OCR model for verifying the date of reports and a CNN classification model for detecting of signatures. · ♂ Code	2021 g the presence
 Prediction of children's bone age from a Brazilian hospital Fine-tuned CNN architectures on X-rays images in combination with tabular features from patients. Deployed the final product as a web application using Flask and Heroku. 	2020

TECHNICAL SKILLS

· 🗗 Code

Programming: C++, Python, SQL, HiveQL, MATLAB, Latex

Software: Machine Learning Frameworks (Tensorflow, PyTorch, Pytorch - Lightning),

OpenCV, Git, Docker