WILLMER RAFELL QUIÑONES ROBLES

Korea Advanced Institute of Science and Technology

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Research Interest

Developing and applying deep learning-based systems to assist and to improve the fields of healthcare, visual recognition, natural language understanding, and cognitive science.

Keywords: Meta-learning, Deep Learning, Health Analytics, Natural Language Understanding, Knowledge Engineering

Education

KAIST (Korea Advanced Institute of Science and Technology) **South Korea**
Ph.D. in Knowledge Service Engineering *February 2020 – Present*

- KIRC (Knowledge Innovation Research Center) • Advisor: Mun Young Yi
- Area of Study: Meta-learning, Machine Learning in the Healthcare field, Deep Learning for Computer Vision

KAIST (Korea Advanced Institute of Science and Technology) **South Korea**
M.S. in Knowledge Service Engineering *February 2018 – February 2020*

- KIRC (Knowledge Innovation Research Center) • Advisor: Mun Young Yi
- Area of Study: Machine Learning in the Healthcare field, Deep Learning for Computer Vision
- Thesis: Impact of Cancer Histopathological Image Preprocessing on Convolutional Neural Network Performance: A Sensitivity Analysis

INTEC (Santo Domingo Institute of Technology) **Dominican Republic**
B.S. in Electronic and Communication Engineering *February 2011 – August 2014*

- Graduated with Honors • GPA 3.55 / 4

Professional Experience

KIRC (Knowledge Innovation Research Center), KAIST **South Korea**
Research Assistant *March 2018 – Present*

- **Diagnostic Pathology using Deep Learning** • Develop Deep Learning models to automatically diagnose abnormalities on histopathology images.

ETED (Dominican Electrical Transmission Company) **Dominican Republic**
SCADA System Engineer *February 2015 – January 2018*

- Manage the Supervisory Control and Data Acquisition system that covers all the electrical transmission power lines in the Dominican Republic

Research Projects

Diagnostic Pathology using Deep Learning **March 2018 - Present**

- Funded by *SeeGene Inc.*
- Develop a vision test model to automatically find patient abnormalities on histopathology images based on deep learning algorithms

Technical Skills

- **Programming:** Python, R, Matlab, C / C++
- **Technology:** PyTorch, TensorFlow, Linux
- **Languages:** Spanish (Native), English (Professional), Korean (Basic)

Professional References

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