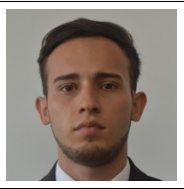


Jefferson Rodríguez

Curriculum Vitae

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Personal Information

Date of Birth September 22, 1994. Bucaramanga (Stder), Colombia
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Education

2018 – 2020 **M.Sc, Systems Engineering and Informatics,**
, Escuela de Ingeniería, Universidad Industrial de Santander - Colombia.
Topics: Machine Learning, Deep Learning, Sign Language Translation.

2018 – 2019 **Tensorflow in practice Specialization program (*non-credit*),**
, deeplearning.ai, Coursera.
On-line

2018 – 2019 **Deep Learning Specialization (*non-credit*),**
, deeplearning.ai, Coursera.
On-line

2013 – 2018 **Systems Engineering and Informatics,**
, Escuela de Ingeniería, Universidad Industrial de Santander - Colombia .
Topics: Computer Vision, Machine Learning, Sign Language Recognition.

Experience

August 2019 - July 2020 **Graduate Teaching Assistant of Artificial Intelligence** at *Universidad Industrial de Santander - Colombia*
Teaching assistance in the undergraduate artificial intelligence course.

December 2018 **Researcher** at *Universidad Pontificia Bolivariana - Colombia*
 - February 2019 Professional participation in the research project: "Investigación y desarrollo de tecnologías para la mejora de los procesos de transporte de crudos pesados y extra-pesados colombianos" by Universidad Pontificia Bolivariana and Ecopetrol.

August 2020 - **Data and machine learning engineer** at *Alcaldía de Bucaramanga - Colombia*
 December 2020 Professional Services in accompanying activities in the health sector, in order to implement and manage computer systems for data processing and use to fit machine learning models related to COVID-19 data.

Publications

How important is motion in sign language translation?. Jefferson Rodríguez, Fabio Martínez. IET Computer Vision Journal (ACCEPTED) - DOI:

Understanding Motion in Sign Language: A New Structured Translation Dataset. Jefferson Rodríguez et. al., ACCV 2020. Kyoto - Japan - DOI:

Sign Language Translation using Motion Filters and Attention Models. Jefferson Rodriguez, Fabio Martínez. Latin American Meeting In Artificial Intelligence, KHIPU 2019. Montevideo - Uruguay - POSTER DOI: <https://doi.org/10.13140/RG.2.2.15173.60643>

Regional Multiscale Motion Representation for Cardiac Disease Prediction. Alejandra Moreno, Jefferson Rodríguez, Fabio Martinez. XXII Symposium on Image, Signal Processing and Artificial Vision, STSIVA 2019. Bucaramanga - Colombia - DOI: <https://doi.org/10.1109/STSIVA.2019.8730231>

Towards on-line sign language recognition using cumulative SD-VLAD descriptors. Jefferson Rodríguez, Fabio Martinez. Colombian Conference on Computing, 13CCC 2018. Cartagena - Colombia - DOI: https://doi.org/10.1007/978-3-319-98998-3_29

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Reconocimiento de gestos en el lenguaje de señas utilizando información espacial de primer y segundo orden representada mediante la estrategia BOW. Jefferson Rodriguez, Fabio Martínez. II Congreso Internacional de Investigación, UDI 2017. Bucaramanga - Colombia - POSTER