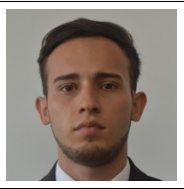


Jefferson Rodríguez

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.

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

Certificates

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

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 - February 2019 **Researcher** at *Universidad Pontificia Bolivariana - Colombia*
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 - December 2020 **Data and machine learning engineer** at *Alcaldía de Bucaramanga - Colombia*
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 Martinez. 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