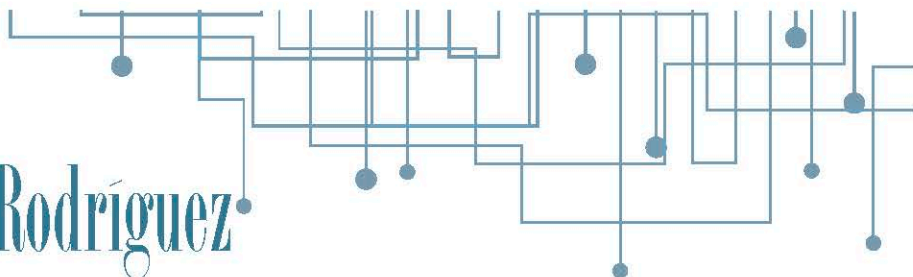




Maria Ximena Bastidas Rodríguez



Personal Information



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Ph.D(c), Electronic Engineer

I am a person with high standards of commitment and responsibility, always looking for personal, professional and academic growth; with good adaptability. I have experience in University teaching, researching and developing engineering projects. My research fields are **Machine Learning**, **Deep Learning** and **Computer Vision**.

Education

PhD(c), Electric Engineering

Universidad Nacional de Colombia.
Bogotá, Colombia.
Meritorious Thesis.

2016 – 2020

- Internship Univeristy of Tokyo.
08.2018 - 02.2019.
- Internship Louisiana State University.
03.2019 - 08.2019.

MSc., Industrial Automation

Universidad Nacional de Colombia
Bogotá, Colombia.
Meritorious Thesis.
2013 – 2016.

Electronic Engineering

Universidad Nacional de Colombia
Bogotá, Colombia.
2008 – 2013

Highschool graduate

Colegio San Francisco Javier.
Pasto, Colombia.
1995 – 2008

Language:

Spanish - Native

English - TOEFL 94

Reading : 28 – Listening: 26

Speaking: 20 – Writing: 20

Reacent Publications

MX Bastidas-Rodríguez, L Polanía, A Gruson, FA Prieto-Ortiz, **Deep Learning for Fractographic Classification in Metallic Materials**, Engineering Failure Analysis, 2020.10.1016/j.engfailanal.2020.104532

MX Bastidas-Rodríguez, A Gruson, L Polanía, S Fujida, FA Prieto-Ortiz, K Takayama, T Hachisuka, **Deep Adaptive Wavelet Network**, Winter Conf. On Aplications of Computer Vision (WACV), 2020. 10.1109/WACV45572.2020.9093580

Qun Liu, Supratik Mukhopadhyay, MX Bastidas-Rodriguez, Xing Fu, Sushant Sahu, David Burk, Manas Gartia, **A One-shot Learning Framework for Assessment of Fibrillar Collagen from Second Harmonic Generation Images of an Infracted Myocardium**, IEEE International Symposium on Biomedical Imaging, 2020.

MX Bastidas-Rodríguez, FA Prieto-Ortiz, Luisa Polanía, **A Textural Deep Neural Network Combined With Handcrafted Features for Mechanical Failure Classification**, The IEEE International Conference on Industrial Technology, 2019, 10.1109/ICIT.2019.8755046

CA Rivera-Morales, MX Bastidas-Rodríguez, FA Prieto-Ortiz, **DenseNet model combined with Haralick's handcrafted features for texture classification**, IEEE Latin American Conference on Computational Intelligence (LA-CCI), 2018, 1-6, 10.1109/LA-CCI.2018.8625205

M.X. Bastidas-Rodríguez, F.A. Prieto-Ortiz and Edgar Espejo, **Fractographic classification in metallic materials by using computer vision**, Engineering Failure Analysis, 59, 2016, 237–252. [dx.doi.org/10.1016/j.engfailanal.2015.10.008](https://doi.org/10.1016/j.engfailanal.2015.10.008)

Spencial Mentions

Meritorious Doctoral Thesis. 10. 2020

Faculty of Engineering - Univerisdad Nacional de Colombia Bogotá, Colombia.

CEIBA Foundation Ph.D Scholarship. 02. 2016 - 01. 2019

CEIBA Foundation.

Meritorious Master Thesis. 10. 2015

Faculty of Engineering - Univerisdad Nacional de Colombia Bogotá, Colombia.

Graduate student Instructor scholarship. 02. 2014 - 07. 2015

Universidad Nacional de Colombia – Sede Bogotá - Dirección Académica.

PAES - Best high school graduates of the country. 2008 - 2013

Universidad Nacional de Colombia Special admission program (PAES)

Work Experience

Researcher. 02. 2020 - Now.

Researcher in computer vision at ReconoSER ID. Work topics: face recognition, face antispoofing systems, face clustering, image quality analysis.

'Clase-T' Project Worker. 09. 2015 - 11. 2015.

Worker in Clase-t project directed by Universidad Nacional de Colombia and “computer for schools”, ICT Ministry program

Graduate Student Instructor. 02. 2014 - 07. 2015.

Graduate student instructor at the Electronic and Electrical Engineering department for the Digital Electronic I and Technique Integration.

Extension Projects Assistant Student. 10. 2013 - 01. 2014.

Construction budget update and systematization; Unitary prices analysis for electric designs, voice and data, CCTV, Fire prevention systems and loud speaker systems in extension projects of the university. Universidad Nacional de Colombia.

References

Prof., Flavio Prieto Ortiz, Ph. D.

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Ph.D., Luisa Polanía Cabrera

Machine Learning Scientist, Target Corporation, Sunnyvale, Ca, USA
email: lfpolani@udel.edu

Prof., Toshiya Hachisuka

Associate Profesor, The University of Tokyo, Tokyo, Japón
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Ph.D., Adrien Gruson

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