Felipe Torres Figueroa

Address: Calle 131 No 57A 52 Int 122 Born: September  $14^{th}$  1994 Telephone: +57 271 31 29 Nationality: Colombian

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## Education

2018-To date Universidad de los Andes. MsC in Biomedical Engineering.

(2 years, current) Masters degree in Biomedical Engineering

▷ Computer Vision, Machine Learning.

2013-2018 Universidad de los Andes. Biomedical Engineer.

(5 years) Undergraduate in Biomedical Engineering

 $\rhd\ Object\ oriented\ Programming. \rhd\ Scientific\ Programming.$ 

2008-2010 CENTRO COLOMBO AMERICANO.B2 Vantage

(2 years)

# Experience

2018-to date Universidad de los Andes, Colciencias. Predicción Automática de

LA EDAD ÓSEA MEDIANTE APRENDIZAJE DE MÁQUINA.

Development of a Machine Learning algorithm to estimate bone age in pediatric

patients.

ightharpoonup Graduate Research Assistant.

2016-2017 Universidad de los Andes, Fundación Santa Fe de Bogota. Bone

AGE DETECTION VIA CARPOGRAM ANALYSIS USING CONVOLUTIONAL NEU-

RAL NETWORK.

Development of a Machine Learning algorithm to estimate bone age in pediatric

patients.

 $\, \triangleright \, \, Undergraduate \,\, Co\text{-}researcher.$ 

2017 UNIVERSIDAD DE LOS ANDES. RESEARCH MONITOR. (6 months) Research Monitor in Bone Age estimation project

 $ightharpoonup Undergraduate\ Research\ Monitor.$ 

#### **Publications**

2019 Shenzhen.M.C. Escobar, C.I. González, F. Torres, L. Daza, G. Triana and P.

Arbeláez. Hand Pose Estimation for Pediatric Bone Age Assessment. MICCAI

2019.

2019 Baltimore. A. Suarez, F. Torres, L. Bocanegra, D. Garcia, J.C. Cruz and C.

Muñoz. Paracrine Response of MSCs on 3d SIS Scaffolds: Assessment By a Wound Healing Assay. 8th International Conference on Bioengineering and Na-

notechnology.

2017 SAN ANDRÉS ISLAND.F. Torres, M.A. Bravo, E. Salinas,. G Triana and P.

Arbeláez. Bone age detection via carpogram analysis using convolutional neural networks. In 13th International Conference on Medical Information Processing

and Analysis (SIPAIM) DOI: 10.1117/12.2285949

2016 Santa Fe de Bogotá.D. Mejía, W. Bracamonte, F. Torres. Fast determina-

tion of bone age and maximium height through carpogram automatic analysis.

In VIII Seminario Internacional de Ingeniería Biomédica (SIB)

## Skills

Operating Systems Linux

Languages Python, Matlab

Frameworks Pytorch, Caffe, Matconvnet Github github.com/ftorres11

# Languages

Spanish Native speaker

English Centro Colombo Americano

Read, Write, Talk. B2 vantage. School level

French School level