

# Juan David Tamayo Q

## Personal data

20/04/1989, Colombian  
C.c.: 1053794456

## Contact

(+57) 3217383757  
jdtamayoq@gmail.com  
Linkedin,

## Languages

Spanish (Native),  
English (intermediate)

## Skills

♥ Python, Matlab, Linux, R,  
Power BI, SQL, G Suite, Git,  
GitHub

## Courses

Machine Learning with Python  
Recol. y exploración de datos  
Machine Learning with Big Data  
Mathematics for Machine  
Learning: Linear Algebra and  
Multivariate Calculus.  
Deep Learning for Business  
Business Intel. con Power BI  
Python: Comprehensions,  
Lambdas y Manejo de Errores  
curso profesional de Scrum

## Groups

### Currently

Smart Data Analysis Systems  
Group (SDAS)

### Past

Soft and Hard Applied  
Computing (SHAC)  
Percepción y Control Int. (PCI)

## References

**Diego Hernán Peluffo-Ordóñez**

President of SDAS group  
Phone: (+593) 992463728

**Juan Bernardo Gómez Mendoza**

Proffesor Universidad Nacional  
Phone: (+57) 301 2443806

**Eder Arley León Gómez**

ARUS - ing. Data Science  
Phone: (+57) 317 5874629

## Profile

Currently, he is passionate about 2D, 3D image and data processing with comprehensive experience in acquisition, preprocessing, and post-processing image data. His primary research interests are deep learning and machine learning applied to data, signal, image, and video analysis for medical and industrial applications. His topics of interest encompass kernel-based and spectral methods, multi-expert methods, and high dimensional data.

## Awards

◇ PhD scholarship ◇ Best Master's average ◇ Innovative social entrepreneurship ('Enlinea')

## Experience

2021	<b>Professor -- Tecnológico de antioquia</b> Teaching professor of software engineering at TDEA	Medellin, Colombia
2021	<b>Professor -- Mision Tic 2022</b> Concept of python from basics, thoroughly, and categorically. Example and practice approach. Help in any problem that occurs while coding, at the spot	Colombia
2020	<b>Machine learning -- Internship</b> <b>Projects:</b> ◇ Bag of Multiples Experts (BoE): simulations of multiples annotator using a FNN. ◇ The ML methods that are suitable for multi-label classification. .	Yachay tech, Ecuador
2016-2020	<b>Research 3D data processing applied to medical issues.</b> <b>Projects:</b> ◇ 3d to 2.5d projection using curvature, depth and point accumulation. ◇ Dental diagnostic using a ML approach. ◇ Dental segmentation.	Universidad Nacional de Colombia
2016-2017	<b>Professor digital image processing</b> <b>Projects:</b> ◇ Banana detection based on color and texture features. ◇ Multispectral images in remote sensing, ◇ Drowsiness detection ◇ Text segmentation and others.	Universidad Nacional de Colombia
2012	<b>Assistant Data Scientist</b> Range image registration software using touch interfaces. "Software de registro de imágenes de rango usando interfaces táctiles -40301037215".	Universidad Nacional de Colombia

## Education

2017–Currently	<b>PhD candidate</b> The doctoral research is applied to digital dentistry: Medical tools to improve orthodontic diagnosis using machine learning techniques and deep learning.	Universidad Nacional de Colombia
2013–2015	<b>Master of Engineering - Industrial Automation</b> Thesis: A Contribution to Semi-automatic Segmentation of Point Clouds.	Universidad Nacional de Colombia
2007–2012	<b>Electronic engineering</b> Mapi: Advanced Topics in Computer Vision, Multivariate analysis and numerical analysis.	Universidad Nacional de Colombia

## Publications

2020	<b>Multi-Expert methods evaluation on Financial and Economic Data: Introducing Bag of Experts</b> HAIS 2020 International Conference on Hybrid Artificial Intelligence Systems	
2015	<b>Emerging Trends in Image Processing, Computer Vision and Pattern Recognitions</b> chapter Chapter 28: "Semi-automatic teeth segmentation in 3d models of dental casts using a hybrid methodology"	Elsevier Book
2014	<b>IPC'14 - The 2014 International Conference on Image Processing</b> "Image Segmentation Techniques Applied to Point Clouds"	

## Additional information

Chair: Workshop in Machine learning: supervised and unsupervised techniques, Volunteer in AIESEC team leader, Teacher Mision Tic 2022, SDASer and a Passion for Science and Technology. Personal links: [Linkedin](#).