Medellín

+57 3015634548

@ acalvm@gmail.com

github.com/acamalvarez

linkedin.com/in/acamalvarez

@acamalvarez

ANDRÉS CAMILO ÁLVAREZ MONTOYA

Chemical Engineer

Python
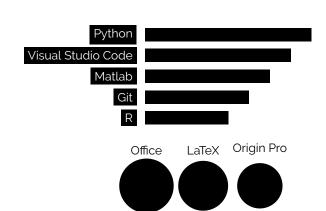**Visual Studio Code**
Matlab
Git
R

Office   LaTeX   Origin Pro

WHO AM I?

I am passionate about programming and data science and willing to assume new challenges. My key strength is to learn quickly and autodidactically by watching videos or reading books. I have a great ability to apply new knowledge to other fields.

EXPERIENCE

9/2018–4/2019
Full-time

Internship Researcher — TU-Freiberg, Alemania
Modeling, simulation, and data fitting of the kinetics of the adsorption/desorption of NH_3.
`Python / Matlab / LaTex`

8/2015–8/2018
Full-time

Researcher — Universidad de Antioquia
Calculation of several mathematical problems (numpy, scipy), plotting of results (matplotlib) and analysis of data (pandas) for the reduction of NO_X.
`Python / Matlab / LaTex`

6/2011–12/2011
Full-time

Research Assistant — CENIVAM
Modeling of the kinetics of the allylic oxidation of α-pinene.
`Matlab / Office`

EDUCATION

2012-2014

MSc in Materials — Universidade Federal de Itajubá
Production and characterization of TiO_2 thin films using LabView software. Computations using Matlab®.

2005-2011

Chemical Engineering — Universidad de Antioquia
Simulation of the selective catalytic reduction of NO using Chemkin. Programming in Matlab® of chemical engineering equipment, such as storage vessel, distillation column, and heat exchanger.

COURSES

2020	**Neural Networks and Deep Learning**	Coursera.org
2015	**Programming for Everybody (Python)**	Coursera.org
2014	**An Introduction to Interactive Programming in Python**	Coursera.org
2014	**R Programming**	Coursera.org
2014	**The Data Scientist's Toolbox**	Coursera.org
2011	**Informática: Diseño de Bases de Datos en SQL**	SENA Virtual

PROJECTS

2020	**Building and training of an artificial neural network for the modeling of enzymatic hydrolysis.**	Tensorflow
2020	**Modeling of the Tri-reforming reactions.**	Scipy

LANGUAGES

Spanish: native
English: B2 (TOEFL IPT 563/677)
Portuguese: advanced

HOBBIES

Practicing biking, soccer, and tennis. Reading.

NON-PROFIT

Sharing knowledge with colleagues and learning from them.