

ALAN MATZUMIYA | ENGLISH



Alan Daniel Matzumiya Zazueta

» I'm Chemical Engineer and M.Sc. Mathematics.
I'm Also Python Full Stack Focused on Data Analysis and
Software / Web Development

»» ABOUT ME

- | | |
|------------------------------|----------------------------|
| » Age: 28 years | » Native Language: Spanish |
| » Birthday: 14 Sept 1992 | » Speak English 80 % |
| » Hometown: Guaymas, Son | » Write English 90 % |
| » Residency: Hermosillo, Son | |

»» EXPERIENCE

Professional Practices CFE, Hermosillo, May-Aug 2015

- » Environmental audit assistant in plant
- » Project proposal developed to modify water treatment plant

Scientific Researching UNAM, Oaxaca, June-Sept 2018

- » Studies about numerical methods to solve stochastic partial differential equations
- » The article publication can be consulted at the following button: [Get Info](#)

Programming Workshops Unison, Hermosillo, 2017 - 2019

- » Programming class teacher developed in Jupyter Notebook using Python language and oriented to engineering students
- » The class material can be consulted at the following button: [Notebooks](#)

Programming Projects GitHub, 2019 - Now

- » Python package to solving PDE's including its stochastic versions
- » Python Package to build spectral numerical methods

[Repository](#)

[Repository](#)

»» EDUCATION

Master Degree in Mathematical Sciences Unison, Hermosillo, 2017 - 2019

- » Thesis: Numerical Solutions to the Stochastic and Deterministic Burgers Equation Using Spectral Methods
- » Click on the following button to download thesis file: [Get PDF](#)

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Bachelor in Chemical Engineering Unison, Hermosillo, 2011 - 2016

- » Thesis: Caracterización y evaluación de las propiedades bioactivas de una mezcla de biocompósitos de hidroxiapatita/ β -wollastonita
- » Click on the following button to download thesis file: [Get PDF](#)

CONTACT

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SKILLS

💻 Software / Web Development	★★★★★
📊 Numerical Algorithms / Data Analysis	★★★★★
🐍 Python / JavaScript	4+ yrs
.VisualBasic / PHP	5+ yrs
CppMethod / Fortran	5+ yrs
💻 R / Matlab	4+ yrs
HTML / CSS / Markdown	5+ yrs
MySQL / MariaDB	3+ yrs

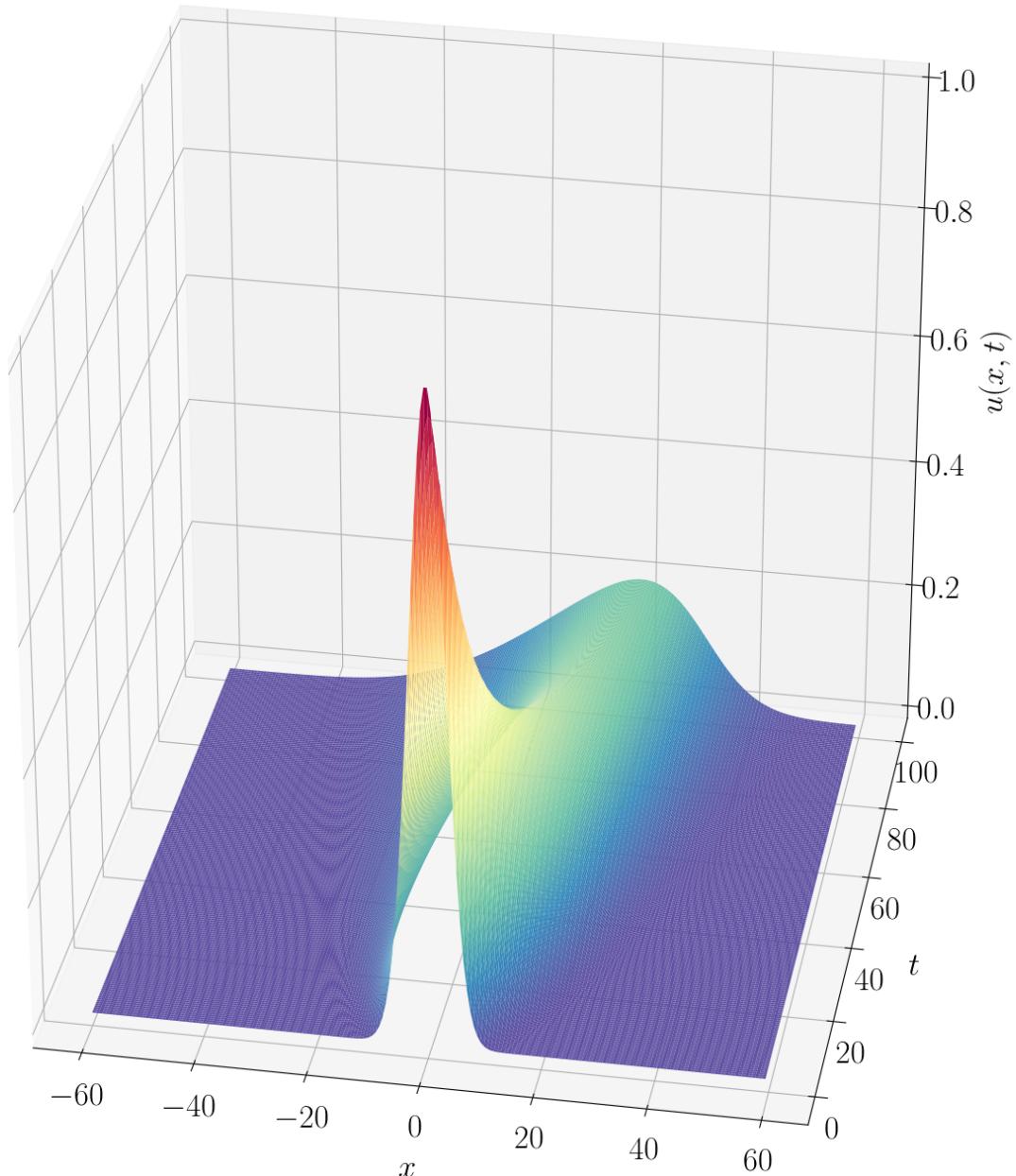
TECHNOLOGIES



- Git / Selenium / Docker
Django / Flask / Dash
Google Analytics / Android Studio
PyCharm / Visual Studio
Jupyter Notebook / RStudio

ACTIVITIES



**Website Built by Jekyll Themes**

CircuitalMinds

- » Organization website called CircuitalMinds
- » Contains its own blog and an extended course to learn Python programming

Set of applications using flask

FractalMetric

- » This application contains the most common snippets and wrappers to build large web pages, giving an advantage due to its ease of use.
- » Its main objective is to scale to manage and maintain the resources used by CircuitalMinds

Container-server for Jupyter Notebooks

Jupyter Notebooks

- » A container of notebooks that are prepared using Docker Hub with the help of a Pipeline, which are part of the resources of pyFullStack
- » With an automated process, the production of an application served in Heroku is carried out using Flask and being able to use the notebooks in Jupyter.

- This development is simply a product of FractalMetric, which is used locally to access my files.
- It is also useful to listen to music downloaded through a wrapper to obtain YouTube videos

»»» PRESENTATION

By: Alan Matzumiya

The academic level that I have currently achieved characterizes me with a multidisciplinary training. However, it has not been my only resource to develop skills and knowledge, since I constantly reinforce a self-taught discipline that is used to obtain a broad vision in relation to my areas of personal interest.

The knowledge that I consider to highlight is the use of mathematics in different contexts such as its applications in physics and statistics; including its theoretical and practical understanding complementing it with the use of programming languages that were mentioned above, since I take advantage of having a fairly broad knowledge about them.

However, in relation to my programming knowledge, my goal is to have a knowledge of the Python language at a professional level, and I currently have a good advantage considering this language as my greatest programming resource that allows me to go deeply enough in various related areas.

You are free to read my projects considered for this document, and in case you have an interest in any that could be useful to you, with all the confidence you can count on my disposal and with pleasure provide the required information. Furthermore, if you have the impression that I can be considered part of your team, you can certainly count on me.

Important: I consider myself a good element for having the ability to understand details, order and document in the best possible way for future readers; As a mathematician and researcher, this dynamic is a fundamental practice that does not generate retrogression.

