

Alexandre Yano

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EDUCATION

Purdue University; Fort Wayne, IN, USA
M.Sc. in Applied Mathematics

Expected Graduation: Dec 2020

Methodist University; Fayetteville, NC, USA
BSc in Mathematics with minor in Computer Science
Academic Honors: Dean's list

August 2015 – May 2019

Li Po Chun UWC of Hong Kong; Shatin, Hong Kong International Baccalaureate

May 2015

RELEVANT COURSEWORK

- Applied Regression Analysis
- Partial Differential Equations
- Data Structure and Algorithms
- Optimization Problems
- Time Series Analysis
- Statistical Machine Learning with R

PROJECTS

The Batch Effect and the Necessity of Metadata Standardization

- Aggregated data can potentially facilitate statistical analyses, but there is a catch: the metadata of different samples need to be compatible for the aggregated data to be useful. In the absence of standardization, this cannot be assumed, and so any statistical assessment would suffer from higher uncertainty.

Simple Neural Network.

Built a neural network in Python by simply using the “math” and “random” library.

EMPLOYMENT EXPERIENCE

Purdue University; Fort Wayne, IN

August 2019 – Dec 2020

Graduate Teaching Assistant for Pre-Calculus

- Worked on the creation of a class syllabus and served as the main instructor for two Precalculus class.
- Created and maintained a successful learning environment for students were students were worked towards obtaining the most from the class.

Duke TIP at Wake Forest University; Winston-Salem, NC

Summer (2017, 2018)

Teaching Assistant for Mathematical Modelling and Applied Statistics

- Engaged in Mathematical analysis and helped students delve into the math of data analysis using real-world problems.
- Established successful methods that helped students applying mathematical induction, calculus, and statistics to prove general statements in math.

Development Workshop NGO; Luanda, Angola

June 2014 – August 2014

- Worked on the creation of strategies to build a water reservoir for a small township in Luanda and educated the population in water conservation and distribution techniques.
- Assisted the DW team in multiple tasks, including, but not limited to, support to the Center for Documentation which archives sections of several Angolan newspapers related to social infrastructure.

LANGUAGES AND ADDITIONAL SKILLS

- Python, R, SQL and Excel
- Familiar with PySpark, Tensorflow 2 and Keras
- Git and version control
- Fluent in Portuguese and English
- Data Cleaning
- Pandas and Numpy
- Web Scrapping
- Intermediate Spanish

VOLUNTEER EXPERIENCE

United World Schools Charity; Tien School, Cambodia

September 2013 – April 2014

- Successfully raised funds to build a small school and assist underprivileged children in the Village of Tien in Cambodia.
- Created and implemented innovative ideas to promote education and learning activities for children in the Village of Tien in Cambodia.

Orphanage Lar Kuzola; Luanda, Angola

August 2012 – August 2013

- Visited the orphanage weekly with a group of volunteers to teach chess and engage the children in several activities.

EXTRACURRICULAR AND ACADEMIC ACTIVITIES

- **Math Club** | Vice-President (2016-2017)
- **Chess Club** | Founder | President (2017-2018)
- **Second Place at the Math Jeopardy** - Awarded by the Mathematical Association of America in the Southeast Region (2018)
- **BCG** – Virtual Experience Program (2020) – (6 hours) with **Forage**(Formerly **InsideSherpa**)
 - Modulus completed:
 - Market Research
 - Data Analysis
 - Understanding consumer needs
 - Client Recommendation
 - Next Steps