**Alexandre Yano**

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**EDUCATION**

### **Purdue University**; Fort Wayne, IN, USA Expected Graduation: Dec 2020

**M.Sc.** inApplied Mathematics

### **Methodist University**; Fayetteville, NC, USA August 2015 – May 2019

**BSc** in Mathematics with minor in Computer Science

*Academic Honors*: Dean’s list

**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 conversation 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
* Data Cleaning
* Pandas and Numpy
* Web Scrapping
* Fluent in Portuguese and English
* 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