

# NATHAN NGUYEN

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## EDUCATION

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### Arizona State University

August 2017 - May 2021

Bachelor of Science in Mathematics Cum Laude

Treasurer - Barrett Book and Tea Club

January 2021 - May 2021

GPA: 3.58/4.00

## TOOLS

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### Statistical Software/Packages

R\*\*\* (Tidyverse, etc), Python\* (Pandas, etc), SAS, SQL

### Data Visualisation

Ggplot2, Matplotlib, Plotly, Tableau\*\*, Jupyter Notebook

### Relevant Courses

Regression Analysis, Analysis of Variance, Applied Statistics,

Predictive Analytics, Epidemics & Outbreaks

Ecology & Evolution of Infectious Diseases

## EXPERIENCE

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### Valleywise Health Medical Center

August 2020 - Current

*Adjunct Research Associate*

*Phoenix, Arizona*

- Assisted with a research project in the OB-GYN department e.g., study design
- Developed explanatory and predictive models with R and performed some hypothesis testing e.g., log-binomial, logistic models,  $\chi^2$  tests, AUROC curves, non-parametric tests, etc
- Created a presentation and reports for the medical team using Power Point and R packages

### DataFest 2021

March 2021

*Contestant - Awarded Best Insight*

*Virtual Event*

- Lead a team of two other undergraduates in developing a plan of analysis
- Used R for EDA and implemented Lasso shrinkage to construct a classification algorithm with moderate performance (Accuracy 90%, MCC 40%, etc)
- Presented and provided a report of our findings to a panel of academic and industry judges where we won the [best insight category](#)

### MacroSystems Ecology Laboratory

May 2019 - August 2019

*Research Aide*

*Arizona State University, Tempe Campus*

- Chemically processed leaf samples of several plant species in preparation for imaging and analysis
- Traced leaf vein-network structure using GIMP and extracted information using MATLAB into an Excel spreadsheet
- Assisted other lab members' research projects via wet-lab work e.g., colleagues' senior thesis, future post-doc publications, etc

## VOLUNTEERING

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### Refugee Woman's Health Services – Valleywise Health

(Decembers) 2017 - Current

*Holiday Angel Project*

*Phoenix, Arizona*

- Navigated families throughout the site and assisted in the collection of whatever it is that they needed
- Miscellaneous duties e.g., prepared the event site, translated on rare occasions, etc

### St. Mary's Food Bank

70+ hours as of 27/08/2021

*Emergency Food Box Packing*

*Phoenix, Arizona*