Ngoc Minh Quang Nguyen

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EDUCATION _

Loyola University Chicago

Chicago, IL

Master of Science, Applied Statistics

August 2020 - December 2021 (Expected)

• Current GPA: 4.00/4.00

Wittenberg University

Springfield, OH

Bachelor of Science, Mathematics and Data Science

August 2017 - May 2020

• Summa Cum Laude; GPA: 3.97/4.00

• Departmental Honors in Mathematics

• Phi Beta Kappa and Pi Mu Epsilon

RESEARCH INTERESTS _

Machine learning; statistical applications in sports; data visualization; reproducibility in data science; statistics and data science education; statistical consulting

RESEARCH EXPERIENCE __

Loyola University Chicago

Chicago, IL

Graduate Research Assistant

August 2020 - present

Advisor: Dr. Gregory J. Matthews

• Estimated the aging curves in baseball using multiple imputation with a hierarchical structure.

Wittenberg University

Springfield, OH

Senior Honors Thesis

August 2019 - May 2020

Advisor: Dr. Douglas M. Andrews

Title: Predictive Models of English Premier League Goal Scoring

- Determined the consistency between the properties of goal scoring (number of goals, time between goals, time location of goals) in the EPL and the key distributions of the Poisson process (Poisson, exponential, uniform.)
- Utilized Poisson regression to simulate and predict the outcomes for a Premier League season. Explored various team metrics including the chances of winning the league title and getting relegated.

WORK EXPERIENCE _

Wittenberg University

Springfield, OH

Math Workshop Head Tutor

August 2018 - May 2020

- Tutored all levels of Mathematics and Statistics/Data Science; and introductory levels of Computer Science, Economics, and Chemistry. Worked with students one-on-one as well as in small groups.
- Coordinated annual GRE Quantitative training sessions. Created basic math skills assessment worksheets for introductory-level Statistics classes.
- Performed daily updates on student activity tracking database. Analyzed time data and fixed bad time entries.
- Assisted the director with the transition to remote tutoring and implementing new video conferencing platform.

Faculty Aide (Teaching/Research Assistant)

August 2018 - May 2020

 Provided aid to Dr. Sunny Jeong with Business courses including International Business, Business Research Methods, Global Social Entrepreneurship, and Business Ethics and Leadership.

- · Updated course websites, created and graded online assignments, and compiled student grades.
- Participated in professor's research on finding new literature and resources. Developed new learning case studies and reading questions.

Clarkston Senior High School

Clarkston, MI

S.U.M. (Student Understanding Math) Assistant

January 2017 - May 2017

• Facilitated daily Algebra II lessons and assisted students with in-class materials and homework assignments.

COMPUTING SKILLS __

- Techniques: data visualization, data wrangling, data mining, machine learning, statistical inference, web scraping
- Advanced knowledge: R/RStudio tidyverse (dplyr, ggplot2, tidyr), R Markdown
- Working knowledge: Python; Java; SQL; SAS; Git/GitHub; LATEX

PRESENTATIONS & POSTERS

- Poster. "Concerns Regarding Sport Climbing Competition Format and Scoring System: Who's Suffering?" UConn Sports Analytics Conference, October 2021. **Student Poster Award Winner**.
- Presentation. "Poisson Modeling and Predicting English Premier League Goal Scoring." Graduate Research Symposium, Loyola University Chicago, March 2021.
- Presentation (pre-recorded). "Poisson Modeling and Predicting English Premier League Goal Scoring." Midwest Sports Analytics Meeting, November 2020.
- Presentation. "Poisson Modeling and Predicting English Premier League Goal Scoring." International Research Symposium, International Education Week, Loyola University Chicago, November 2020.
- Presentation. "Poisson Modeling and Predicting English Premier League Goal Scoring." Ohio State Sports Analytics Conference, November 2020.
- Poster. "Poisson Modeling and Predicting English Premier League Goal Scoring." NextGen: Data Science Day, New England Statistical Society, November 2020. Poster Competition Co-Winner, Undergrad/MS Group.
- Poster. "Poisson Modeling and Predicting English Premier League Goal Scoring." Carnegie Mellon Sports Analytics Conference, October 2020.
- Poster. "Poisson Modeling and Predicting English Premier League Goal Scoring." UConn Sports Analytics Conference, October 2020.
- Presentation (pre-recorded). "Something Fishy About Manchester United's Distribution of Goals Scored." Department of Mathematics and Computer Science's Colloquium Series, Wittenberg University, October 2020.

AWARDS _

Merit Award Loyola University Chicago

MS in Applied Statistics Program 2020-2021

The Charles and Elsie Little Mathematics Award

Wittenberg University

Department of Mathematics and Computer Science

2020

• Awarded to the most outstanding senior mathematics and data science majors.

Mathematics 202 Award Wittenberg University

Department of Mathematics and Computer Science

2019

Awarded to an outstanding first-year student in the introductory calculus sequence.

Textbook Award Wittenberg University

Department of Mathematics and Computer Science

2019

Awarded to first-year students majoring in the Department of Mathematics and Computer Science.

International Student Scholarship and International Student Grant Program

Wittenberg University 2017-2020

HONORS _

Summa Cum Laude Wittenberg University

Graduated with the highest distinction 2020

Departmental Honors in Mathematics Wittenberg University

Department of Mathematics and Computer Science 2020

Phi Beta Kappa Wittenberg University

Omicron of Ohio Chapter 2020

Pi Mu Epsilon Wittenberg University

Ohio Upsilon Chapter 2020

Pick and Pen Wittenberg University

Phi Eta Sigma Wittenberg University

Midwest Region Chapter 2018

Dean's List Wittenberg University

All semesters: Fall 2017 - Spring 2020

Loyola University Chicago

Wittenberg University

Major GPA: 4.00/4.00

COURSEWORK ____

Graduate

Statistics (* In progress)

- Predictive Analytics*
 - Statistical Computation and Simulation*
 - Statistical Consulting*
 - Statistical Design and Analysis of Experiments*
 - Advanced Statistical Inference (Independent Study)

Junior honorary emphasizing leadership, service and scholarship

Undergraduate

Statistics/Data Science

- Mathematical Statistics
- Univariate Probability
- Statistical Modeling
- Introduction to Data Science with R

Mathematics

- · Graph Theory
- Real Analysis
- · Abstract Algebra
- Linear Algebra
- Multivariable Calculus

Current GPA: 4.00/4.00

- Nonparametric Statistics
- Categorical Data Analysis
- Probability & Mathematical Statistics
- Applied Regression Analysis
- SAS Programming & Applied Statistics

• Computer Programming II with Java

- Computer Programming I with Python
- Databases
- Introductory Statistics/Data Analysis

Major GPA: 4.00/4.00

- Differential Equations
- Foundations of Geometry
- Discrete Mathematics & Proofs
- Calculus II
- Calculus I

DATA COMPETITIONS	
Humana-Mays Healthcare Analytics Case Competition	Texas A&M University, Mays Business School
2021 Competition, Round 1	Place: 2/75
SLICED	Kaggle Competition
Season 1, Episode 9 - 2021	Place: $1/23$ (Audience participation)
Season 1, Episode 10 - 2021	Place: 2/27 (Audience participation)
ACTIVITIES	
Wittenberg University	Springfield, OH
International Orientation Assistant	2018 & 2019
Witt Math Club, Secretary and Chair of Contest Recruitment	2018-2020
Trivia Night Host	2020
East Asian Studies Club	2019
American International Association	2017
COMMUNITY SERVICE	_
The Fuller Center for Housing	Americus/Albany, GA
Wittenberg University's Service Immersion Spring Break Trip	2019
LANGUAGES	
Bilingual: Vietnamese (native language) and English (proficient)	
EXCHANGE PROGRAMS	
Clarkston Senior High School	Clarkston, MI
Educatius Group, US F-1 Academic Exchange Program	2016-2017
Lead Hill High School	Lead Hill, AR
Cultural Academic Student Exchange (CASE)	2015-2016