Ngoc Minh Quang Nguyen

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EDUCATION

Loyola University Chicago   Chicago, IL

Master of Science, Applied Statistics   Expected December 2021

- Current GPA: 4.00/4.00
- Graduate Merit Award

Wittenberg University

Bachelor of Science, Mathematics and Data Science   Graduated May 2020

- Summa Cum Laude; GPA: 3.97/4.00
- Departmental Honors in Mathematics
- Phi Beta Kappa and Pi Mu Epsilon

RESEARCH EXPERIENCE

Loyola University Chicago   Chicago, IL

Graduate Research Assistant   August 2020 - present

Advisor: Dr. Gregory J. Matthews

- Esimated 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

- Determined the consistency between the properties of goal scoring (number of goals, time between goals, time location of goals) in the English Premier League 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, finishing in the top four and bottom three, and relegation points.

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 Courses assisted: 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, creating examples to ensure student understanding of math concepts, and giving calculator instructions.

COMPUTING SKILLS

- Techniques: data visualization, data wrangling, data mining, machine learning, statistical inference

- Advanced knowledge: R/RStudio - tidyverse (dplyr, ggplot2, tidyr), R Markdown

- Working knowledge: Python; Java; SQL; SAS; Git/GitHub; LaTeX

PRESENTATIONS & POSTERS

- 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   Wittenberg University
International Student Grant Program   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

Junior honorary emphasizing leadership, service and scholarship — 2019

Phi Eta Sigma — Wittenberg University

Midwest Region Chapter — 2018

Dean's List — Wittenberg University

All semesters: Fall 2017 - Spring 2020

COURSEWORK

Graduate — Loyola University Chicago

Statistics (* In progress) — Current GPA: 4.00/4.00

- Predictive Analytics*
- Statistical Computation and Simulation*
- Statistical Consulting*
- Statistical Design and Analysis of Experiments*
- Advanced Statistical Inference (Independent Study)
- Nonparametric Statistics
- Categorical Data Analysis
- Probability & Mathematical Statistics
- Applied Regression Analysis
- SAS Programming & Applied Statistics

Undergraduate — Wittenberg University

Statistics/Data Science — Major GPA: 4.00/4.00

- Mathematical Statistics
- Univariate Probability
- Statistical Modeling
- Introduction to Data Science with R
- Computer Programming II with Java
- Computer Programming I with Python
- Databases
- Introductory Statistics/Data Analysis

Mathematics — Major GPA: 4.00/4.00

- Graph Theory
- Real Analysis
- Abstract Algebra
- Linear Algebra
- Multivariable Calculus
- Differential Equations
- Foundations of Geometry
- Discrete Mathematics & Proofs
- Calculus II
- Calculus I

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