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

Supervised 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), R Markdown
- Basic 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   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

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