

# Ngoc Minh Quang Nguyen

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## EDUCATION

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### 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

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### 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

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### 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

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- 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

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- 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

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**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

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**Summa Cum Laude**

Wittenberg University

Graduated with the highest distinction

2020

<b>Departmental Honors in Mathematics</b>	Wittenberg University
Department of Mathematics and Computer Science	2020
<b>Phi Beta Kappa</b>	Wittenberg University
Omicron of Ohio Chapter	2020
<b>Pi Mu Epsilon</b>	Wittenberg University
Ohio Upsilon Chapter	2020
<b>Pick and Pen</b>	Wittenberg University
Junior honorary emphasizing leadership, service and scholarship	2019
<b>Phi Eta Sigma</b>	Wittenberg University
Midwest Region Chapter	2018
<b>Dean's List</b>	Wittenberg University
	All semesters: Fall 2017 - Spring 2020

## COURSEWORK

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<b>Graduate</b>	Loyola University Chicago
<b>Statistics</b> (* In progress)	Current GPA: 4.00/4.00
<ul style="list-style-type: none"> <li>Predictive Analytics*</li> <li>Statistical Computation and Simulation*</li> <li>Statistical Consulting*</li> <li>Statistical Design and Analysis of Experiments*</li> <li>Advanced Statistical Inference (Independent Study)</li> </ul>	<ul style="list-style-type: none"> <li>Nonparametric Statistics</li> <li>Categorical Data Analysis</li> <li>Probability &amp; Mathematical Statistics</li> <li>Applied Regression Analysis</li> <li>SAS Programming &amp; Applied Statistics</li> </ul>
<b>Undergraduate</b>	Wittenberg University
<b>Statistics/Data Science</b>	Major GPA: 4.00/4.00
<ul style="list-style-type: none"> <li>Mathematical Statistics</li> <li>Univariate Probability</li> <li>Statistical Modeling</li> <li>Introduction to Data Science with R</li> </ul>	<ul style="list-style-type: none"> <li>Computer Programming II with Java</li> <li>Computer Programming I with Python</li> <li>Databases</li> <li>Introductory Statistics/Data Analysis</li> </ul>
<b>Mathematics</b>	Major GPA: 4.00/4.00
<ul style="list-style-type: none"> <li>Graph Theory</li> <li>Real Analysis</li> <li>Abstract Algebra</li> <li>Linear Algebra</li> <li>Multivariable Calculus</li> </ul>	<ul style="list-style-type: none"> <li>Differential Equations</li> <li>Foundations of Geometry</li> <li>Discrete Mathematics &amp; Proofs</li> <li>Calculus II</li> <li>Calculus I</li> </ul>

## ACTIVITIES

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<b>Wittenberg University</b>	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

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<b>The Fuller Center for Housing</b>	Americus/Albany, GA
Wittenberg University's Service Immersion Spring Break Trip	2019

## LANGUAGES

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Bilingual: **Vietnamese** (native language) and **English** (proficient)

## EXCHANGE PROGRAMS

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<b>Clarkston Senior High School</b>	Clarkston, MI
Educatus Group, US F-1 Academic Exchange Program	2016-2017
<b>Lead Hill High School</b>	Lead Hill, AR
Cultural Academic Student Exchange (CASE)	2015-2016