

Ngoc Minh Quang Nguyen

Department of Statistics & Data Science, Carnegie Mellon University

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EDUCATION

| | |
|---|----------------|
| Carnegie Mellon University PhD, Statistics & Data Science | 2022 – present |
| Loyola University Chicago MS, Applied Statistics | 2020 – 2021 |
| Wittenberg University BS, Mathematics & Data Science | 2017 – 2020 |

RESEARCH EXPERIENCE

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| Carnegie Mellon University Advanced Data Analysis Project (Advisor: Nynke Niezink) | 2023 – present |
| Loyola University Chicago Graduate Research Assistant (Advisor: Gregory J. Matthews) | 2020 – 2021 |
| Wittenberg University Senior Honors Thesis Research (Advisor: Douglas M. Andrews) | 2019 – 2020 |

ACADEMIC EXPERIENCE

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|--|---|
| Carnegie Mellon University Teaching Assistant Carnegie Mellon Sports Analytics Camp (CMSACamp)/ Summer Undergraduate Research Experience (SURE) 36-402/608: Advanced Methods for Data Analysis 36-401/607: Modern Regression | Summer 2023 Spring 2023 Fall 2022 |
| Loyola University Chicago Instructor STAT 103: Fundamentals of Statistics (3 sections) | Spring 2022 |
| Wittenberg University Math Workshop Head Tutor Faculty Aide | 2018 – 2020 2018 – 2020 |
| Clarkston Senior High School S.U.M. (Student Understanding Math) Assistant | 2017 |

PUBLICATIONS

Journal Articles

B. S. Baumer, G. J. Matthews, **Q. Nguyen**. Big Ideas in Sports Analytics and Statistical Tools for their Investigation. *Wiley Interdisciplinary Reviews: Computational Statistics*. 2023. doi: [10.1002/wics.1612](https://doi.org/10.1002/wics.1612). arXiv: [2301.04001](https://arxiv.org/abs/2301.04001).

Q. Nguyen, H. Butler, G. J. Matthews. An Examination of Olympic Sport Climbing Competition Format and Scoring System. *Journal of Data Science* **20**(2), 156–167, 2022. doi: [10.6339/22-JDS1042](https://doi.org/10.6339/22-JDS1042). arXiv: [2111.05310](https://arxiv.org/abs/2111.05310).

Q. Nguyen. Poisson Modeling and Predicting English Premier League Goal Scoring. *New England Journal of Statistics in Data Science*. 2023. doi: [10.51387/21-NEJSDS1](https://doi.org/10.51387/21-NEJSDS1). arXiv: [2105.09881](https://arxiv.org/abs/2105.09881).

Submitted

Q. Nguyen, R. Yurko, G. J. Matthews. Here Comes the STRAIN: Analyzing Defensive Pass Rush in American Football with Player Tracking Data. 2023. (Under review.) arXiv: [2305.10262](https://arxiv.org/abs/2305.10262).

Q. Nguyen, G. J. Matthews. Filling in the Gaps: A Multiple Imputation Approach to Estimating Aging Curves in Baseball. 2023. (Under review.) arXiv: [2210.02383](https://arxiv.org/abs/2210.02383).

Other

G. J. Matthews, **Q. Nguyen**. STRAIN: Sacks, Tackles, Rushing, Aggression INdex. 2023 NFL Big Data Bowl. <https://www.kaggle.com/code/statsinthewild/strain-sacks-tackles-rushing-aggression-index>

B. S. Baumer, **Q. Nguyen**, G. J. Matthews. CRAN Task View: Sports Analytics. The Comprehensive R Archive Network. 2022. <https://cran.r-project.org/web/views/SportsAnalytics.html>

SELECTED PRESENTATIONS

Invited

G. J. Matthews, **Q. Nguyen**. STRAIN: Sacks, Tackles, Rushing, Aggression INdex. 2023 *NFL Big Data Bowl Final*. March 2023.

Finalist (Top 8; \$10,000 prize)

Q. Nguyen, G. J. Matthews. Estimating Aging Curves: Using Multiple Imputation to Examine Career Trajectories of MLB Offensive Players. *Carnegie Mellon Sports Analytics Conference*. October 2022.

3rd Place, Open Methodology Track, Reproducible Research Competition.

Q. Nguyen, H. Butler, G. J. Matthews. An Examination of Olympic Sport Climbing Competition Format and Scoring System. *Cascadia Symposium on Statistics in Sports*. September 2022.

Q. Nguyen, H. Butler, G. J. Matthews. An Examination of Sport Climbing's Competition Format and Scoring System. *Carnegie Mellon Sports Analytics Conference*. November 2021.

Winner, Open Methodology Track, Reproducible Research Competition.

Posters

Q. Nguyen, H. Butler, G. J. Matthews. Concerns Regarding Sport Climbing Competition Format and Scoring System: Who's Suffering? *UConn Sports Analytics Conference*. October 2021.

Winner, Student Poster Award.

Q. Nguyen. Poisson Modeling and Predicting English Premier League Goal Scoring. *NextGen: Data Science Day - New England Statistical Society*. November 2020.

Co-Winner, Poster Competition, Undergrad/MS Group.

Q. Nguyen. Poisson Modeling and Predicting English Premier League Goal Scoring. *Carnegie Mellon Sports Analytics Conference*. October 2020.

Q. Nguyen. Poisson Modeling and Predicting English Premier League Goal Scoring. *UConn Sports Analytics Conference*. October 2020.

HONORS & AWARDS

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| University of Toronto Sports Analytics Group (UTSPAN) Scholarship | 2022 |
| Cascadia Symposium on Statistics in Sports (CASSIS) 2022 | |
| Merit Award | 2020 – 2021 |
| MS in Applied Statistics Program, Loyola University Chicago | |
| Summa Cum Laude | 2020 |
| Graduated with the highest distinction, Wittenberg University | |
| Departmental Honors | 2020 |
| Department of Mathematics and Computer Science, Wittenberg University | |
| Phi Beta Kappa | 2020 |
| Omicron of Ohio Chapter, Wittenberg University | |
| Pi Mu Epsilon | 2020 |
| Ohio Upsilon Chapter, Wittenberg University | |
| The Charles and Elsie Little Mathematics Award | 2020 |
| Department of Mathematics and Computer Science, Wittenberg University | |
| Awarded to the most outstanding senior majoring in mathematics and data science | |
| Pick and Pen | 2019 |
| Wittenberg University | |
| Mathematics 202 Award | 2018 |
| Department of Mathematics and Computer Science, Wittenberg University | |
| Awarded to an outstanding first-year student in the introductory calculus sequence | |
| Textbook Award | 2018 |
| Department of Mathematics and Computer Science, Wittenberg University | |
| Phi Eta Sigma | 2018 |
| Wittenberg University | |
| Dean's List | All semesters; 2017 – 2020 |
| Wittenberg University | |

SKILLS

Computing: R/RStudio (expert); Python, SQL, SAS, Git/GitHub (basic)

Typesetting: markdown, L^AT_EX (proficient)

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

SERVICES

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| Reviewer | |
| Journal of Quantitative Analysis in Sports | 2022, 2023 |

Mentoring

Women in Data Science (WiDS) Chicago Datathon 2022

MEDIA

An Examination of Sport Climbing with Quang Nguyen 2022

Open Source Sports Podcast, Episode IX Guest

<https://anchor.fm/open-source-sports/episodes/An-Examination-of-Sport-Climbing-with-Quang-Nguyen-e1inj99>

Viz Buzz 2022

Episodes 2, 3, 4, 5 Contestant (Episodes 3 & 4 Lap Winner)

https://youtube.com/playlist?list=PL2rVQ3cmgOyx_CdtKOA0oX2pikOcc_xu-

Can you pick the AFL's Brownlow Medal winner without knowing the first thing about Australian rules? 2021

ABC News (Australia)

<https://www.abc.net.au/news/2021-09-19/afl-trying-to-predict-the-2021-brownlow-medal-winner/100472246>

Last updated June 3, 2023