# Anh Nguyen

## EDUCATION

**Wake Forest University**, Winston-Salem, NC                                Aug 2022 – May 2024
*Master of Science in Statistics*, Data Science Certification

**Smith College**, Northampton, MA                                Sep 2018 – May 2022
*Bachelor of Arts in Mathematics* (High Honor for Senior Thesis), Minor in Statistical and Data Sciences
<u>Thesis title:</u> Number theoretic properties of a sequence arising from a discrete dynamical system with a countable number of discontinuities — Advisor: Dr. Geremias Polanco

## PUBLICATIONS

1. Zihan Miao, **Anh Nguyen**, Tian An Wong. "Kronecker's first limit formula for Kleinian groups." Funct. Approx. Comment. Math. 69 (1) 7 - 25, September 2023. https://doi.org/10.7169/facm/1997

## RESEARCH & WORK EXPERIENCES

5. **Measurement error in food access research**
   Advisor: Dr. Sarah Lotspeich, Wake Forest University                                Jun 2024 – Present
   *Develop Bayesian hierarchical model to impute travel distance from straight line distance to grocery stores to estimate the relationship between prevalence of diabetes and accessibility to grocery stores.*

4. **Strong Bones Clinical Study**
   Advisor: Dr. Dan Beavers, Wake Forest University                                Jun 2023 – Sept 2023
   *Wrote scripts to automate quality check and importation of clinical trial data from cloud storage into REDCap system.*

3. **Sequences from a Discontinuous Discrete Dynamical System**
   Advisor: Dr. Geremias Polanco, Smith College                                Jun 2021 - May 2022
   *Studied a special fraction sequence generated by a discontinuous function associated with the Sturmian sequence*

2. **Modeling the COVID-19 Pandemic with Variants**
   Advisor: Dr. Christophe Gole, Smith College                                Jan 2021 – May 2021
   *Studied ways to extend the SIR Model to simultaneously model various variants of COVID-19*

1. **Elliptic Dedekind Sum**
   Advisor: Dr. Tian An Wong, Smith College                                Jun 2020 – Aug 2020
   *Studied the Dedekind sum and the modular space for real special linear group to find an analogue of Dedekind sum in special linear complex space*

## TALKS

6. **Look What You Made Me Do: A Taylor Swift's Singles Charting Time Analysis**                                Oct 2024
   *Women in Statistics and Data Science*, Reston, VA

5. **Look What You Made Me Do: A Taylor Swift's Singles Charting Time Analysis**                                Oct 2024
   *International Day of Women in Statistics and Data Science*, Online

4. **Number theoretic properties of a sequence from a discrete discontinuous system**     Oct 2021
   *Women in Mathematics in New England Conference*, Northampton, MA

3. **Number theoretic properties of a sequence from a discrete discontinuous system**     Sept 2021
   *Smith College Math Department Lunch Talk* , Northampton, MA

2. **Elliptic Dedekind Sum**     Apr 2021
   *Hudson River Undergraduate Mathematics Conference*, Online

1. **Elliptic Dedekind Sum**     Aug 2020
   *Ohio State University Young Mathematician Conference*, Online

## TEACHING & TUTORING EXPERIENCE

3. **Visiting Assistant Professor, Wake Forest University**     Aug 2024 – Jun 2025
   *Instructor of record for three sections of Introduction to Statistics. Prepare triweekly lectures, hold weekly office hours, and administer exams.*

2. **Teaching Assistant, Wake Forest University**     Aug 2022 – May 2024
   *Graded and provided feedback on weekly homework and hold weekly study session for Introduction to Statistics and Statistical Inference. Tutored students one-on-one for undergraduate mathematics and statistics courses.*

1. **Peer Tutor, Smith College Spinelli Center**     Jan 2020 – May 2022
   *Graded and provided feedback on homework for Multivariable Calculus, Number Theory, and Math Skill Studio. Held drop-in study session for the Calculus sequence, Linear Algebra, and Discrete Math.*

## AWARDS

3. Tuan Le Corporation Scholarship     2022 – 2024

2. Smith College Summer Undergraduate Research Fellowship     2019 – 2020

1. United Parcel Service James E. Casey Scholarship     2018 – 2022

## SKILLS

**Programming:** R (advanced), Python (intermediate), Mathematica (intermediate), High Performing Cluster (beginner), Linux (beginner)

## VOLUNTEER & EXTRA-CURRICULAR

5. **Girls Talk Math Summer Camp Leader**, Wake Forest University     Aug 2024

4. **Florence Nightingale Day Volunteer**, Wake Forest University     Apr 2024

3. **Integration Bee Organizer**, Wake Forest University     Jan 2024 – May 2024

2. **"Coffee without Profs" Organizer**, Wake Forest University     Aug 2023 – May 2024

1. **Panel Moderator**     Oct 2020
   **Women in Mathematics in New England Conference**, Smith College