

ALEX ACADEMIA

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EDUCATION

North Carolina State University, Raleigh, NC Anticipated May 2019

PhD in Statistics; GPA: 3.4/4.0

- Dissertation, "Effects of Calcium Consumption on Decrease of Abdominal Obesity in U.S. Adults"

Hunter College CUNY, New York, NY June 2014

MA in Mathematics; GPA: 3.8/4.0

Long Island University, Brookville, NY June 2006

BA in Mathematics; Minor in Graphic Design; GPA: 3.9/4.0

RESEARCH INTERESTS

Investigations to improve the quality of everyday life through the utilization and analysis of "big data." Topics can range from observing effects of weight loss methods, classroom performance, and employee satisfaction.

RESEARCH EXPERIENCE

North Carolina State University, Department of Statistics, Raleigh, NC June 2016 - present

Research Assistant

- Collected, collated, and cleaned Moodie data for use in the analysis of a project on the comparison between the online and in-classroom student performances.
- Worked closely with departmental professor, contributed to weekly meetings by communicating progress on data analysis in Excel spreadsheets.

TEACHING EXPERIENCE

North Carolina State University, Department of Statistics, Raleigh, NC Aug. 2014 - present

Graduate Teaching Assistant (Economics and Business Statistics)

- Clarify and encourage up to 50 undergraduate students' understanding of material taught resulting in increase in exam grades.
- Meet for extra help and tutor students on weekly basis reinforcing concepts and supplementing the given problem sets.

Instructor (Introduction to Computing) Aug. 2015 - Dec. 2016

- Organized, planned and executed lectures to 189 undergraduate College of Sciences students, introducing them to the NCSU computing environment.
- Guided students' creation of personal webpages to showcase projects to potential employers.

Long Island University, Mathematics Department, Brookville, NY Aug. 2012 - Dec. 2013

Mathematics Adjunct Professor

- Planned and delivered weekly lectures in Calculus VII to classes of up to 50 undergraduate students.
- Participated in faculty meetings, held regular office hours, and scheduled weekly help sessions.
- Coordinated the creation of all online learning environments and assignments with Dean of Mathematics Department.

The Masters School, Dobbs Ferry, NY

Aug. 2006 - June 2012

Mathematics Instructor

- Raised students' AP Calculus II scores resulting in an average of 4.4/5.0.
- Adapted instruction to the learning styles of students by incorporating problem sets based on skill level.
- Added and implemented a new interdisciplinary course, Mathematics throughout History.
- Served as an advisor to 7 students and maintained the parent-teacher-advisor relationship.

BIostatISTICS PROJECT EXPERIENCE

Columbia University, Department of Biostatistics, New York, NY

Project Coordinator

June 2014 - Aug. 2014

- Collaborated with a 4-person team to serve data and research needs of fortune 500 clients.
- Coordinated and managed all deadlines, work assignments, and communications between team and clients.
- Reviewed final drafts of projects in addition to suggesting revisions when needed.

Biostatistics Department Intern

May 2013 - June 2014

- Analyzed data as needed by the team to assist with a variety of clients' projects, resulting in successful completion and satisfied clients.
- Participated in weekly team meetings by presenting results of analysis and collaborating to present them to clients.

PUBLICATIONS

Academia, Alex. A Potential Effect of Calcium Consumption on the Decrease of Abdominal Obesity in U.S. Adults. (Paper in progress.)

Danielson, Jane Z., Analysis, Alex., Fabians, Nicholas M. (2015). Why Women and Men Joined the Society of Women Engineers Over the Last 60 Years. *Journal of the Society of Women Engineers*. Vol. 5. 601 Anniversary Ed.

CONFERENCE PRESENTATIONS

Oral Presentations

- Academia, Alex. (Sept. 2014). *How to Conduct Biostatistics Research*. International Research Symposium, New York, NY.

Poster Presentations

- Academia, Alex. (Sept. 2014). *What Effective Classrooms Look Like*. Poster presentation at Excellence in Education Conference, Charlotte, NC.

TECHNICAL SKILLS

Analysis Packages: SAS, R, MATLAB

Design Software: WordPress, InDesign, Photoshop

AWARDS

STEM Grant Recipient

American Research Award

New York Mathematics Fellowship

PROFESSIONAL DEVELOPMENT

American Mathematical Association, Member Youth Leadership Forum in Medicine, Participant Departmental Professional Seminars, Facilitator