

# Matthew E. Vanaman

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## Education

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**Ph.D., Basic and Applied Social Psychology** 2017 - 2022 (Expected)

The Graduate Center of the City University of New York (CUNY), USA

Adviser: Hanah Chapman

**B.A. Psychology, Minor in Music** 2017

Stetson University, Florida, USA

Senior Thesis: "Does knowledge of psychological processes align actions with values?"

Major GPA: 3.88

Overall GPA: 3.63

## Grants, Honors, and Scholarships

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Grant Recipient, Doctoral Student Research Grant - \$1,500 2019

Grant Recipient, Association for Politics and the Life Sciences Special Issue on Disgust and Politics - \$1,500 2018

Graduate Center Fellowship, City University of New York - \$130,640 2017

Award for Excellence in Research, Stetson University 2017

Grant Recipient, Dean's Fund, College of Arts and Sciences, Stetson University - \$750 2016

Grant Recipient, Stetson Undergraduate Research Experience, Stetson University - \$2,500 2015-2016

Dean's List, Stetson University 2014-2015

Dean's List, College of Central Florida 2013-2014

Community of Scholars Honors Scholarship, College of Central Florida 2012-2014

Phi Theta Kappa Honor Society Scholarship, College of Central Florida 2012-2014

## Research Experience

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**Quantitative Reasoning Fellow** 2020 - Present

*School of Labor and Urban Studies, City University of New York*

- ◇ Provide accessible, goal-driven statistical consulting to undergraduate and graduate students.
- ◇ Develop and conduct workshops, both stand-alone and as invited lecturer, that solidify student quantitative reasoning.
- ◇ Support faculty in implementing statistics and research design into their courses, such as through the development of course materials.

**Doctoral Researcher and Lab Manager, Emotion and Morality Lab** 2017 - Present

*City University of New York*

- ◇ Lead the design, execution, and publication of original experimental and survey research.
- ◇ Communicate results of complex analyses (conducted in R) to experts and non-experts alike.
- ◇ Procure local and national data from institutional subject pools, Qualtrics, and Amazon Mechanical Turk.
- ◇ Provide ongoing recruitment, mentorship, and training in statistics and research methodology to lab assistants.

<b>Contract Data Analyst</b> <i>Workforce Professionals Training Institute</i> <ul style="list-style-type: none"> <li>◇ Provide statistical summaries and intuitive interpretations for subgroup analyses.</li> <li>◇ Used functional programming to automate the generation of numerous statistical tables.</li> <li>◇ Provided feedback on teammembers' interpretations of statistical results, validation of their results, and recommendations communicating these results to lay audiences.</li> </ul>	2020
<b>Research Analyst</b> <i>CUNY Office of Undergraduate Studies, Academic Programs, and Policy</i> <ul style="list-style-type: none"> <li>◇ Wrangled large and complex datasets.</li> <li>◇ Automated the generation of recurring reports of university data.</li> <li>◇ Utilized creative approaches to data visualization and summarization to identify trends in policy impact.</li> </ul>	2019-2020
<b>Data Analyst</b> <i>CUNY Research Foundation, Office of Institutional Research</i> <ul style="list-style-type: none"> <li>◇ Provided thorough and accessible statistical consultation to experts (e.g. other quant experts) and non-experts (e.g. college provost) alike.</li> <li>◇ Generated numerous reports for using R Markdown and <math>\text{\LaTeX}</math>.</li> <li>◇ Employed predictive methods such as (log-)linear models, ensemble methods, and cross-validation using R.</li> </ul>	2019
<b>Faculty-Student Collaboration in Scale Development</b> <i>Stetson University</i> <ul style="list-style-type: none"> <li>◇ Authored scripts and conducted semi-structured and focus group interviews.</li> <li>◇ Applied a phenomenological approach to hard-code and derive emergent themes from interview transcripts.</li> <li>◇ Derived content- and face-valid scale items from transcript themes.</li> <li>◇ Identified a valid and reliable item subset via the application of principal component and exploratory- and confirmatory-factor analytic models assessment of convergent-, discriminant-, and concurrent criterion-validity, and examination of test-retest reliability using Intraclass Correlation Coefficients (absolute agreement).</li> </ul>	2016 - 2017
<b>Senior Research Thesis</b> <i>Stetson University</i> <ul style="list-style-type: none"> <li>◇ Designed a novel lab-based experimental intervention designed to reduce unethical behavior.</li> <li>◇ Recruited and administered the protocol to 175 undergraduate psychology students.</li> <li>◇ Analyzed data using z-binomial and Pearson <math>\chi^2</math> tests of independence using IBM SPSS statistics software.</li> </ul>	2016
<b>Grant-Funded University Research</b> <i>Stetson University</i> <ul style="list-style-type: none"> <li>◇ Designed and administered a novel experiment to 209 homeless individuals whom I recruited from homelessness intervention organizations.</li> <li>◇ Tested hypotheses using mixed effects linear regression and equivalent groups analysis.</li> <li>◇ Presented results to a lay audience at the annual National Council of Undergraduate Research Conference as well as at a university-wide research showcase.</li> </ul>	2016 - 2017
<b>Research Apprenticeship in Social Psychology</b> <i>Stetson University</i> <ul style="list-style-type: none"> <li>◇ Assisted with experimental design and participant recruitment for a study investigating the differential effects of types of fiction on the personalities and behaviors of high-school students.</li> </ul>	2016 - 2017

## Researcher/Community Demographics Analyst

2014-2015

*Volusia/Flagler County Coalition for the Homeless, Corella and Bertram F. Bonner Foundation*

- ◇ Prepared and administered surveys for the HUD's national Point-in-Time homelessness census.
- ◇ Digitally cataloged, de-duplicated, and mined the data (along with organizational archival and publicly available datasets) for meaningful trends across various demographic strata.
- ◇ Visualized trends with a variety of tables and figures in Microsoft Excel, along with written interpretation, for inclusion in local, state, and federal government and private grant applications on behalf of Volusia and Flagler County homelessness service-providing agencies.
- ◇ Distilled data insights to pamphlet-form for distribution to lay-people at community events and organizational meetings.
- ◇ Synthesized this data with existing psychological research literature to estimate the effect of homelessness on youth relative to adult populations; presented the findings in an oral presentation given on behalf of our organization to the governing body's annual Board of Directors meeting.

## Teaching Experience

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### Invited Lecturer - Master's Course in Statistical Programming Using R

2020-Present

*Brooklyn College*

- ◇ Recruited to revitalize and implement a core master's level statistics course.
- ◇ Provide practical-yet-accurate instruction on the use of R Studio and Markdown for cleaning and visualizing data, evaluating statistical results and performance, and generating beautiful summary reports.
- ◇ Strategically used humorous, real-world analogues to drive home statistical concepts while generating enthusiasm and ameliorating student anxiety.

### Graduate Teaching Assistant/Adjunct Lab Instructor (Statistics)

2018 - 2019

*Brooklyn College*

- ◇ Devised original lectures, handouts, lab exercises, and class demonstrations using R-Based simulations and IBM SPSS statistics software.
- ◇ Facilitated intuitive understanding of probability theory, hypothesis testing, statistical analyses from binomial tests to repeated measures factorial ANOVA, visualization, and sampling.

### Teaching Apprenticeship

2016

*Stetson University*

- ◇ Contributed to the development and implementation of a core undergraduate statistics course.
- ◇ Presented on one-way, factorial, repeated measures, and repeated measures factorial analysis of variance tests as an invited guest lecturer.

## Research History

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### Software Skills

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- ◇ R Studio for data cleaning, analysis, visualization, beamer presentations, rendering of reproducible reports (and this vita) via integration of R Markdown and L<sup>A</sup>T<sub>E</sub>X, and the ProjectTemplate package for standardized project directories and automated data preprocessing.
- ◇ Version Control with Git and Github for project history management, collaboration, and transparent research.
- ◇ Psychopy and Python for computer-based testing.
- ◇ IBM SPSS Statistics and Microsoft Excel for data cleaning, analysis, and visualization.

## Advanced Statistics Coursework

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**Qualitative Methods**

*Fordham University*

Grade: A

Fall 2019

**Categorical Data Analysis**

*The Graduate Center of the City University of New York*

Grade: A

Spring 2019

**Mathematics for Social Sciences**

Spring 2019

*The Graduate Center of the City University of New York*

Grade: A

**The General Linear Model**

Fall 2018

*The Graduate Center of the City University of New York*

Grade: A

**Affiliations**

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American Statistical Association

Society for Personality and Social Psychology

Association for Politics and the Life Sciences

Psi Chi Honor Society for Psychology

**Service**

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Ad Hoc Reviewer

2019 - Present

*Assessment*

Program Student Counsel Member, Basic and Applied Social Psychology

2019 - Present

*Graduate Center at the City University of New York*

## Professional References

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### **Hanah Chapman, PhD**

Assistant Professor of Psychology  
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### **Robert L. Askew, PhD, MPH**

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### **Michael R. Ayers, PhD**

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### **Laura Crysel, PhD**

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