

ALYSSA M. VANDERBEEK
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[Portfolio / blog](#) | [GitHub](#) | [LinkedIn](#)
May 2019

EDUCATION

Columbia University, New York, NY May 2020 (Expected)
M.S. Biostatistics – GPA 3.75

Wheaton College, Norton, MA May 2016
B.A. Mathematics

AWARDS & HONORS

Hispanic Scholarship Fund Scholar – Fall 2018

RESEARCH EXPERIENCE

Data Science Institute Scholar, Columbia University, New York, NY Summer 2019
Principal Investigators: Maxim Topaz, RN, PhD

- Help develop Natural Language Programming software in R to process clinical notes using combined user input and machine learning

Assistant Statistician, Columbia University, New York, NY May 2019 – Present
Principal Investigators: Steven Shea, MD & Seamus (JLP) Thompson, PhD

- Manage data and perform analysis on data for ROHKYT pilot study, examining preliminary effectiveness of text messaging interventions to improve hypertension

Research Assistant, Columbia University, New York, NY Sept 2018 – Present
Supervising Faculty: Codruta Chiuzan, PhD

- Build [R package](#) to simulate and implement early-phase two-stage adaptive dose-finding design, developed by [Chiuzan et al.](#)

Research Assistant, [Dana-Farber Cancer Institute](#), Boston, MA Oct 2016 – July 2018
Principal Investigator: Brian M. Alexander, MD, MPH

- Identify data sources; clean and maintain datasets; perform analysis and simulations in R
- Develop informatics tools to acquire and handle data from online sources
- Assist in development on biostatistical methods pertaining to clinical trial design/conduct
- Collaborate in manuscript writing (literature review, methods, and reporting results)

PUBLICATIONS

* Authors contributed equally

1. **Vanderbeek AM**, Rahman R, Fell G, Ventz S, Chen T, Redd R, Parmigiani G, Cloughesy T, Wen P, Trippa L, Alexander BM. The clinical trials landscape for glioblastoma: is it adequate to develop new treatments? *Neuro-Oncology*. April 2018.
2. Rahman R, Ventz S, Fell G, **Vanderbeek AM**, Trippa L, Alexander BM. Divining Responder Populations from Survival Data. *Annals of Oncology*. March 2019.
3. **Vanderbeek AM***, Ventz S*, Rahman R, Fell G, Trippa L, Alexander BM. To randomize, or not to randomize, that is the question: using data from prior clinical trials to guide future designs. *Accepted manuscript; Neuro-Oncology*, May 2019.

MANUSCRIPTS

1. Rahman R, Fell G, Ventz S, Arfe A, **Vanderbeek AM**, Trippa L, Alexander BM. Deviation from the proportional hazards assumption in randomized phase 3 oncology clinical trials: prevalence, associations, and implications. *Invited revision*.

CONFERENCES

Posters

- Vanderbeek AM, “To randomize or not to randomize”. 3rd Annual Stat4Onc. May 2019.

OTHER RELEVANT EXPERIENCE

Information Analyst, Definitive Healthcare, Natick, MA

Aug 2016 – Oct 2016

- Web application development and maintenance (use of SQL Server, HTML)
- Relational database management using SQL Server (5 databases)
- Create custom data reports for clients

Student, Summer Institute for Training in Biostatistics, Boston University, Boston, MA

Summer 2015

- Competitive six-week full-time intensive introduction to biostatistics
- Training in SAS and using data from the Framingham Heart Study

RELEVANT PROJECTS

1. *The clinical trials landscape for glioblastoma: is it adequate to develop new treatments?*
This project was a meta-analysis of clinical trials conducted for glioblastoma between 2005 and 2016. We wrote software to leverage *ClinicalTrials.gov* and *PubMed*, cross-referencing registered trials and their publications with the goal of identifying potential areas of inefficiencies. The publication of results can be found [here](#).
2. *Visualizing wearable technology activity – Data Science I midterm project*
Using data from one individual over a span of several months, I examined trends in activity and visualized these findings. The GitHub repository for this project can be found [here](#).

SKILLS

Computer: R, SQL, LaTeX, SAS, HTML5, Stata, Python

Language: English (native), French (intermediate)