# ALYSSA M. VANDERBEEK

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## EDUCATION

**Columbia University**, New York, NY — May 2020 (Expected)
MS Biostatistics – GPA 3.75
*Relevant Coursework: Data Science I, Biostatistical Methods I, Probability Theory*

**Wheaton College**, Norton, MA — May 2016
BA Mathematics, Minors Statistics & Economics – GPA 3.29
*Relevant Coursework: Data Analysis, Introduction to Computer Science with Python, Econometrics, Linear Algebra*

## AWARDS & HONORS

Hispanic Scholarship Fund Scholar – Fall 2018

## RESEARCH EXPERIENCE

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

- Author R package based on previous work by Chiuzan
- Develop novel biostatistical methods based on previous work by Chiuzan

***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*. 2018.
2. Rahman R, Ventz S, Fell G, **Vanderbeek AM**, Trippa L, Alexander BM. Divining Responder Populations from Survival Data. *Annals of Oncology: accepted manuscript.*

## MANUSCRIPTS

1. **Vanderbeek AM***, Ventz S*, Rahman R, Fell G, Trippa L, Alexander BM. To randomize, or not to randomize, that is the question: a meta-analytic methodology for determining the context-specific value of randomization. *Invited revision.*
2. 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.*

## 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)