

# M. Parker Seegmiller

329 N 800 E • Provo, UT 84606  
(385) 219-8093 • parker@pkseeg.com  
pkseeg.com

## Education

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**BS Statistics: Data Science**, *Brigham Young University, Provo, UT*

*Minor in Computer Science, Minor in Mathematics*

*August 2017 - April 2021*

*GPA: 3.63/4.00, GRE: V: 162, Q: 165, W: 4.0*

*Clubs: Vice President Association for Competitive Programming, Vice President Data Science Club*

*Relevant Coursework: Deep Learning, Artificial Intelligence, Machine Learning, Natural Language Processing, Big Data Science, Inferential Statistics, Algorithms, Advanced Programming, Data Structures, Discrete Structures, Computation Theory, Probability, Advanced Linear Algebra, Calculus, Competitive Programming*

## Experience

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**Data Science Intern**, *Aetna, a CVS Health Company*

*Analytics and Behavior Change - Payment Integrity Team*

*June 2020 - August 2020*

- Personally developed machine learning model for predicting healthcare provider abusive upcoding on inpatient DRG claims, projected to save up to \$1,000,000 each month via audit recommendations
- Presented original research for VP of Aetna, preparing web application for live model prediction
- Engineered 100+ features for abusive upcoding model

**Teaching Assistant**, *Brigham Young University Computer Science Department*

*January 2021 - Present*

- Designed homework assignments and programming labs for a new Computer Science course, CS 201R Intro to Data Science
- Led weekly programming help sessions of up to 30 students

**Research Assistant**, *Brigham Young University Computer Science Department*

*December 2019 - December 2020*

- Worked independently under Dr. Quinn Snell to build end-to-end neural network for classification of online news articles as “fake”
- Engineered unique features from news article URL, webpage metadata, and article body using custom-built word/character embeddings and NLP models
- Shipped model to flask server, built chrome extension for fake news article detection

**Research Assistant**, *Brigham Young University Marketing Department*

*May 2019 - May 2020*

- Statistical researcher under Tamara Masters, Ph.D.
- Provided data modeling, analysis, insight, and creativity for 8+ research projects
- Paper under Review:
  - “Consumption as Therapy: Dealing with Sustained Stress Through Consumption” Research on COVID-19 in the US, China, India and Italy, (Tamara Masters, DJ Nayakankuppam, Grace Yu-Buck and Parker Seegmiller), Journal for the Association of Consumer Research
- *Projects included:*

- Topic modeling in healthcare patient text responses about lying to their healthcare provider
- Brand review analysis using semantic document embeddings
- Analysis of lying on computer-based surveys using mouse-tracking data and machine learning model
- Consumer decision-making analysis using EEG data

### **CS Instructor, *Juni Learning, Inc.***

*July 2019 - Present*

- Weekly mentored 20+ students aged 7-18 in Scratch, Python, and Java
- Trained 8+ students in common competitive programming algorithms and techniques, helping them to prepare for the USA Computing Olympiad bronze, silver, and gold divisions

### **Teaching Assistant, *Brigham Young University Statistics Department***

*January 2019 - December 2019*

- Assisted Drs. Fellingham and Nielsen in teaching 3 large introductory statistics courses covering probability, hypothesis testing, linear regression, R programming, etc.
- Biweekly prepared and led lectures of 40+ students
- Graded 200+ homework assignments on statistical inference and hypothesis testing

### **Research Assistant, *Brigham Young University Statistics Department***

*September 2018 - April 2019*

- Collected, managed, and analyzed 5+ years of match data for BYU women's and men's tennis teams
- Led team of 11 interns in data collection, project ideation, and statistical analysis processes
- Built and presented player-specific probabilistic models of serving percentages by service position and point outcome, presenting research insights to head coaches

### **Lithuanian Instructor, *Missionary Training Center***

*September 2017 - January 2018*

- Trained 20+ volunteers in groups of 1-10 in Lithuanian language and study habits

## **Volunteer Work**

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### **Refugee Youth Mentor, *Catholic Community Services of Utah***

*June 2019 - June 2020*

- Met with newly-arrived (< 1 year in U.S.) teenage refugee for 2+ hours weekly, assisting in assimilation process via English tutoring, cultural activities, and mentorship
- Participated in quarterly trainings on topics ranging from English as a second language tutoring to comprehensive gang prevention

### **ESL Elementary School Reading Tutor, *Granite School District***

*August 2018 - December 2018*

- Tutored elementary school students ages 7-10 in reading and writing English as a second language

### **Volunteer Missionary, *Church of Jesus Christ of Latter-day Saints***

*Lithuania*

*July 2015 - July 2017*

- Developed advanced proficiency in spoken and written Lithuanian
- Prepared and presented quarterly trainings to groups of 20+ volunteers

## **Skills**

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*Programming Languages:* Python, Java, C++, HTML, SQL, R

*Languages:* English (Native), Lithuanian (Advanced)

*Methods:* Natural Language Processing, Deep Learning, Statistical Inference