

# Parker Seegmiller

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## Education

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### PhD Computer Science, Dartmouth College, Hanover, NH

*September 2021 - Present*

*Awards:* Guarini PhD Innovation Fellow, Guarini School Graduate Student Poster Session 2023 Winner

*Relevant Coursework:* Artificial Intelligence, Machine Learning, Natural Language Processing, Entrepreneurship and Innovation, Accounting, Finance

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

*Minor in Computer Science, Minor in Mathematics*

*August 2017 - April 2021*

*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

## Publications

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- **Seegmiller, P.** & Preum, S. (In Press). (2023). Statistical Depth for Ranking and Characterizing Transformer-Based Text Embeddings. The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023).
- Gatto, J., Sharif, O., **Seegmiller, P.**, Bohlman, P., & Preum, S. (In Press). (2023). Text Encoders Lack Knowledge: Leveraging Generative LLMs for Domain-Specific Semantic Textual Similarity. The 2023 Conference on Empirical Methods in Natural Language Processing (GEM Workshop 2023) (EMNLP 2023).
- **Seegmiller, P.**, Gatto, J., Basak, M., Cook, D., Ghasemzadeh, H., Stankovic, J., & Preum, S. (In Press). (2023). The Scope of In-Context Learning for the Extraction of Medical Temporal Constraints. The 6th International Workshop on Health Natural Language Processing (HealthNLP Workshop 2023) (ICHI 2023).
- **Seegmiller, P.**, Gatto, J., Johnston, G., Basak, M., & Preum, S. (2023). HealthE: Recognizing Health Advice & Entities in Online Health Communities. International AAAI Conference on Web and Social Media (ICWSM 2023).
- Gatto, J., **Seegmiller, P.**, Johnston, G., & Preum, S. (2022). Identifying the Perceived Severity of Patient-Generated Telemedicine Queries Regarding COVID: Developing and Evaluating a Transfer Learning Based Solution. 2022 Journal of Medical Internet Research.
- Masters, T., Nayakankuppam, D., Yu-Buck, G., & **Seegmiller, P.** (2022). Consumption as Therapy: Individual and Country Factor effects on Stress and Optimism During a Sustained Stressor [Paper Presentation]. 2022 AMA Winter Academic Conference, Las Vegas, Nevada, USA.

## Experience

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### Teaching Assistant, Dartmouth College Department of Computer Science

September 2021 - Present

- *Courses Assisted:* Android Programming (Dr. Xing-Dong Yang, Fall 2021), Discrete Mathematics (Dr. Hsien-Chih Chang, Winter 2022), Machine Learning (Dr. Sarah Masud Preum, Spring 2022 & Fall 2023)

### 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

### 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

### 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

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

## Skills

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*Programming:* Python, Java, Kotlin, C++, SQL, R

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

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