Strengths

- Extensive background in NLP and HCI, contributes to deep understanding of "experience": both how to measure it and how to express it
- Utilized very large datasets to study fine-grained phenomenon and gain better insight into cognition and interactions
- Leading a comprehensive research program focusing on predicting interaction quality in emotional dialogues, based on how a user produces their response, and visualizing response patterns to improve collaboration
- Apply findings from experiments to make experiences such as remote healthcare and customer service more universally beneficial
- o Design compelling visualizations to communicate complex findings to a diverse audience

Education

2016

PhD Candidate, Northwestern University, Human-Computer Interaction

- **Thesis**: Predicting social dynamics in online dialogue using keystroke and typing behavior [in progress]
- o Honors: Data Science Fellow, Cognitive Science Specialist

2016

MA, CUNY Graduate Center, Computational Linguistics

- Thesis: Utilizing Linguistic Context To Improve Typed Text Identification
- o Coursework in Natural Language Processing, Statistics, Data Visualization.

2007

BA, Columbia University, Religion

o Honors: King's Crown Award For Leadership, Dean's List: 2006, 2007

Experience

2016

Northwestern University, PhD Researcher

- Create machine learning and regression models to understand the influence of social dynamics on user behavior
- Develop quantitative metrics to measure language timing and infer how it reflects experiences and motivations
- Utilize qualitative methodologies to evaluate survey data about experiences during conversations
- Visualize data and results in order to make hypotheses understandable and compelling

2017

Northwestern University, Teaching Assistant

- o Teaching experience in Human-Computer Interaction, Cognitive Science, and Sociolinguistics
- Lead discussion sections and provided feedback to students on assignments, and help them understand difficult concepts

2013

Microsoft, Software Developer in Test Intern

 Developed website (back- and front-end) to diagnose licensing issues with Microsoft products



Goldman Sachs & Co., Operations Analyst

- Team Leader for Technology Enhancements
- Created software to streamline daily asset delivery workflow, from 3 hours to 25 minutes



Computer: Python, R (ggplot2, plotly, lme4), Java, C++, LATEX, HTML, JavaScript, React, CSS

Human: Beginning proficiency in American Sign Language (ASL), Hebrew, Latin

Select Awards and Honors

- Future of Health & Wellness Technologies Conference (HCIC) Departmental Representative, Northwestern University
- 2022 Dissertation Research Support, Northwestern Dept. of Communication Studies
- 2021 **Incubation Prize**, *Hack4Rare Rare Disease Hackathon*
- 2018 Best Paper Award, Cognitive Modeling & Computational Linguistics Workshop
- _______ Data Science Fellowship, Northwestern University
- 2014 Google Lime Connect Scholarship-Finalist

Selected Publications (See Google Scholar for full list)

- Goodkind, A., Gergle, D. Information from keystroke patterns can increase the effectiveness of digital mental healthcare. Inaugural Meeting of the Society for Digital Mental Health. [poster]
- Goodkind, A. TypeShift: A User Interface for Visualizing the Typing Production Process. [paper]
 - **Goodkind, A,** Bicknell, K. Local word statistics affect reading times independently of surprisal. [paper]
- Goodkind, A. & Bicknell, K. Predictive power of word surprisal for reading times is a linear function of language model quality. In *Proceedings of the 8th Workshop on Cognitive Modeling and Computational Linguistics (CMCL 2018)*. Salt Lake City, UT: Linguistic Society of America. [paper] [slides] * Best Paper Award
 - **Goodkind, A.,** Lee, M., Martin, G. E., Losh, M., & Bicknell, K. Detecting language impairments in autism: A computational analysis of semi-structured conversations with vector semantics. In *Proceedings of the Inaugural Meeting of the Society for Computation in Linguistics*. Salt Lake City, UT: Linguistic Society of America. [paper] [slides]
- Goodkind, A., Brizan D.G. & Rosenberg, A. Improvements to Keystroke-Based Authentication By Adding Linguistic Context. 7th IEEE Conference on Biometrics: Theory, Applications and Systems (BTAS 2015) [paper]
 - Brizan, D. G.*, **Goodkind**, **A.***, Koch, P., Balagani, K., Phoha, V. V., & Rosenberg, A. Utilizing Linguistically-Enhanced Keystroke Dynamics to Predict Typist Cognition and Demographics. International Journal of Human-Computer Studies, October 2015, vol. 84, 57-68. [paper]