# Adam Goodkind

4636 N. Racine Ave., Apt. 2
Chicago, IL 60640
☏ 973 723 6484 (text)
☎ 973 939 0023 (captions)
✉ a.goodkind@u.northwestern.edu
adamgoodkind. com

## Objective

Apply my knowledge of language processing, statistical analysis and data visualization to understand Human-Computer Interaction (HCI) and collaboration in healthcare, and then clearly communicate results.

## Education

**2016**

**PhD Candidate, Northwestern University**, *Media, Technology, & Society*.
CollabLab (PI: Darren Gergle)

- Data Science Fellow
- Cognitive Science Specialist

**2016**
**2013**

**MA, CUNY Graduate Center**, *Computational Linguistics*.

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

**2007**
**2003**

**BA, Columbia University**, *Religion (Study of Science & Religion)*.

- Dean's List: 2006, 2007

## Experience

### Industry

**2020**

**PhD Data Science Intern**, *Vail Systems*, Chicago, IL.

- Created experiments to objectively evaluate the quality of text-to-speech (TTS) systems

**2016**

**Language Engineering Intern**, *Transcendent Endeavors*, NY, NY.

**2013**

**Software Developer in Test Intern**, *Microsoft Corp.*, Redmond, WA.

- Developed website (back- and front-end) to diagnose licensing issues with Microsoft products
- Developed decision-making pipeline to aid in issue diagnosis

**2012**
**2008**

**Operations Analyst**, *Goldman Sachs & Co.*, Multiple Locations.

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

### Academic

**2017**

**Research Assistant**, *Northwestern University*.

- Research on the relationship between statistical language models and human cognition.

**2016**
**2012**

**Research Assistant, Sound Lab**, *CUNY Graduate Center*.

- DARPA-funded initiative to identify "cognitive fingerprints" (unique typing patterns) based on linguistic patterns in text, using machine learning.

## Languages

Computer  Java, Python, R (ggplot2, plotly, lme4), C++, VBA, C#, LaTeX

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

## Select Awards and Honors

2018  **Best Paper Award**, Cognitive Modeling & Computational Linguistics Workshop (CMCL).

2016  **Data Science Fellowship**, *Northwestern University*.

2014  **Google Lime Connect Scholarship–Finalist**.

2007  **King's Crown Award: Outstanding Leadership**, *Columbia University*.

## Representative Publications

Adam Goodkind and Klinton Bicknell. 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)*, pages 10–18, 2018.

Adam Goodkind, David Guy Brizan, and Andrew Rosenberg. Utilizing overt and latent linguistic structure to improve keystroke-based authentication. In *Image and Vision Computing: Best of Biometrics Special Issue*, volume 58, pages 230–238. Elsevier, 2017.

Adam Goodkind, Michelle Lee, Gary E Martin, Molly Losh, and Klinton Bicknell. Detecting language impairments in autism: A computational analysis of semi-structured conversations with vector semantics. *Proceedings of the Society for Computation in Linguistics (SCiL) 2018*, pages 12–22, 2018.

Adam Goodkind and Andrew Rosenberg. Muddying the multiword expression waters: How cognitive demand affects multiword expression production. In *Proceedings of the 11th Workshop on Multiword Expressions*, pages 87–95, 2015.