

CONTACT INFORMATION

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PhD, Northwestern University
Media, Technology & Society Program
Linguistics Department

Data Science Fellowship
Cognitive Science Specialist

2016

2007

RESEARCH EXPERIENCE

2017–Present

Researching autism diagnoses using linguistic markers, such as semantic similarity (word vectors) and pragmatic deficiencies. Also researching how linguistic predictability affects sentence processing via eye-tracking.

2012–2016

2006–2007

HONORS AND AWARDS

2018

2018

2016–2017

2015

2014

2013–2014

2003–2007

2006

- 2016 **Goodkind, A.**, Brizan D.G. & Rosenberg, A. *Utilizing Overt and Latent Linguistic Structure to Improve Keystroke-Based Authentication*. *Image and Vision Computing: Best of Biometrics Special Issue*.
- 2015 **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)*. (Slides)
- Goodkind, A.** & Rosenberg, A. *Muddying The Multiword Expression Waters: How Cognitive Demand Affects Multiword Expression Production*. *11th Workshop on Multiword Expressions at NAACL-HLT 2015*. (Slides)
- 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.
- 2014 Locklear, H., Govindarajan, S., Sitova, Z., **Goodkind, A.**, Brizan, D., Rosenberg, A., Phoha, V., Gasti, P., & Balagani, K. *Continuous Authentication with Cognition-centric Text Production and Revision Features*. *Biometrics (IJCB), 2014 IEEE International Joint Conference*.
- 2013 Serwadda, A., Balagani, K., Wang, Z., Koch, P., Govindarajan, S., Pokala, R., **Goodkind, A.**, Brizan, D.G., Rosenberg, A., & Phoha, V. *Scan-based Evaluation of Continuous Keystroke Authentication Systems*. *IT Professional*, 15(4), 20-23.
- 2008 **Goodkind, A.** *Tracking the Emergence of Narrative Competence in Story Retelling*. *Quebec Student Journal of Linguistics*, Vol. 3.
- 2007 Passonneau, R. J., **Goodkind, A.**, & Levy, E. T. *Annotation of Children's Oral Narrations: Modeling Emergent Narrative Skills for Computational Applications*. *Florida Artificial Intelligence Research Society (FLAIRS)*, 253-258.
- 2006 Passonneau, R., McKeown, K., Sigelman, S., & **Goodkind, A.** *Applying the Pyramid Method in the 2006 Document Understanding Conference*. *Proceedings of the 2006 Workshop of the Document Understanding Conference (DUC)*.

PRESENTATIONS

- 2018 Lee, M.A., Martin, G.E., **Goodkind, A.**, Bicknell, K., Maltman, N., Bush, L., Losh, M. *A Multi-Method Approach to Characterizing Pragmatic Language Development in Individuals with FXS*. Paper presented at the International Fragile X Conference, Cincinnati, OH, July, 2018
- Goodkind, A.** *Complex Data Visualization: Visualizing language production dynamics via keystroke analysis*. Presentation at Inaugural Data Science Research Day, Northwestern University Institute on Complex Systems, 25 June 2018. (Slides)
- Goodkind, A.** *Demo of TypeShift software system for tracking keystroke dynamics* at Individual Differences Workshop, Northwestern University, 30 May 2018. (Code)
- Lee, M.A., Martin, G.E., **Goodkind, A.**, Bicknell, K., Maltman, N., Bush, L., Losh, M. *A longitudinal, multi-method analysis of pragmatic language in ASD and related developmental disabilities*. Poster presented at the International Society for Autism Research, May, 2018, Rotterdam, Netherlands
- Goodkind, A.** & Bicknell, K. *Low-level language statistics affect reading times independently of surprisal*. Poster presentation at the 31st annual CUNY Conference on Human Sentence Processing, UC Davis, Davis, California, 1517 March 2018.
- 2015 Goldman, N. & **Goodkind, A.** *Worth 1,000 Words: The Linguistics of Emoji and Emoji of Linguistics*. SQUID X: 10th Annual Conference Showcasing Quirky and Original Ideas in Development. New York, NY April 24, 2015. (Slides)
- 2014 **Goodkind, A.** *Detecting Multi-word Expressions Through Typing Patterns*. *15th Texas Linguistics Society Conference, Austin ,TX, October 24-26, 2014* (Slides)
- Goodkind, A.** *Detecting Multi-word Expressions in Computer Keyboard Produced Text*. *CUNY Research Day*, New York, NY

TEACHING EXPERIENCE	Teaching Assistant <i>Northwestern University</i> <ul style="list-style-type: none"> • Linguistics 220: Language & Society (Prof. Annette D’Onofrio), 2018 <ul style="list-style-type: none"> – Guest lecture on quantitative data analysis • Cognitive Science 210: Language & the Brain (Profs. Matt Goldrick & Mark Beeman), 2019 • Linguistics 221: Language & Prejudice (Prof. Erin Leddon), 2019
NON-ACADEMIC EMPLOYMENT	Language Engineering Intern , Transcendent Endeavors, NY, NY, USA Summer 2016 Software Developer in Test Intern , Microsoft, Redmond, WA, USA Summer 2013 Operations Analyst , Goldman Sachs, USA 2008–2011
DEPARTMENTAL SERVICE	Co-organizer, Northwestern Text Analytics Working Group 2018–Present Founder, Northwestern NLP Group 2017–2018 Founder, Linguistics Deep Learning Reading Group 2017–Present Web & Social Media Coordinator, Linguistics 2017–Present Colloquium Reception Committee, Linguistics 2016–2017
PROFESSIONAL ACTIVITIES	North American Computational Linguistics Olympiad (NACLO), Volunteer, 2019 Diversity & Inclusivity Committee, NAACL 2019, Committee Member DevSci Cluster, Northwestern University, Member Institute of Electrical and Electronics Engineers (IEEE), Member Linguistic Society of America (LSA), Member Association for Computational Linguistics (ACL), Member Financial Industry Regulatory Authority (FINRA), Member
LANGUAGES	Computer —Java, Python, R (ggplot2, plotly, lme4), C++, VBA, C#, L ^A T _E X, MATLAB/Octave Human —American Sign Language (ASL), Hebrew, Latin
REFERENCES	Klinton Bicknell , Research Scientist, Duolingo <i>(Original PhD advisor at Northwestern)</i> email: klinton@duolingo.com Andrew Rosenberg , Research Scientist, Google <i>(MA advisor at CUNY Graduate Center)</i> email: rosenberg@google.com