

Kole A. Norberg

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www.kolenorberg.com

Updated: July 10, 2022

EDUCATION

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| 2022 | Ph.D. in Cognitive Psychology <i>Minor in quantitative psychology</i> <i>Certificate in neuroscience</i> from Center for Neural Basis of Cognition University of Pittsburgh, Pittsburgh, PA |
| 2020 | M.S. in Cognitive Psychology University of Pittsburgh, Pittsburgh, PA |
| 2009 | M.F.A. in Creative Writing - Fiction Florida Atlantic University, Boca Raton, FL |
| 2003 | B.A. in Psychology Indiana University, Bloomington, IN |

PROFESSIONAL POSITIONS

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| 2023- | Learning Engineer Carnegie Learning, Inc – Pittsburgh, PA |
| 2022-2022 | Post-doctoral Researcher Resilient Cognitive Solutions – Pittsburgh, PA |
| 2020-2022 | Graduate Teaching Fellow University of Pittsburgh – Psychology Dept. – Pittsburgh, PA |
| 2017-2020 | Graduate Student Researcher Learning Research and Development Center – University of Pittsburgh |
| 2015-2017 | Research Assistant Advisor: Natalie Kacinik, Ph.D. – Brooklyn College – Brooklyn, NY |
| 2013-2017 | Instructor of Developmental Reading/Writing (Adult Literacy) Kingsborough Community College – CUNY Start – Brooklyn, NY |
| 2011-2013 | Web Manager Hides in Shape (retail store) -- New York City, NY |
| 2009-2011 | Adjunct Lecturer Queensborough Community College – English Dept. – Queens, NY |
| 2007 to 2008 | Graduate Teaching Assistant Florida Atlantic University – English Department – Boca Raton, FL |

RESEARCH INTERESTS

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| Broad | Learning, communication, memory, metacognition, natural language processing |
| Specific | Ambiguity resolution (or lack thereof) during communication, integrating context awareness into natural language processing models |

AWARDS

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| Jan. 2021 | LRDC Graduate Student Council Award, LRDC, Univ. of Pittsburgh (\$250) |
| Dec. 2020 | Myers Research Excellence Award, Univ. of Pittsburgh, Dept of Psychology (\$500) |
| July 2019 | Outstanding Student Paper, Society of Text and Discourse Conference (\$100) |
| March 2018 | Outstanding Student Presentation, Grad Student Expo, Univ. of Pittsburgh (\$100) |

PUBLICATIONS AND MANUSCRIPTS

- Norberg, K. A.**, Perfetti, C., Helder, A. (2022). Word-to-text integration and antecedent accessibility: Eye-tracking evidence extends results of ERPs. *Journal of Experimental Psychology: Learning, Memory, & Cognition*.
<http://dx.doi.org/10.1037/xlm0001127>
- Norberg, K. A.**, Fraundorf, S. H. (2021). Memory benefits from contrastive focus truly require focus: Evidence from clefts and connectives. *Language, Cognition, and Neuroscience*, 36(8), 1010-1037.
<https://doi.org/10.1080/23273798.2021.1901944>
- Apgar, C., **Norberg, K. A.** (2022). (under review). Wait wdyw?: The misperception of emotional valence in text messaging across generations.
- Norberg, K. A.**, Fraundorf, S. H. (2022). (under review). A metacognitive perspective for the allocation of reading time.
- Norberg, K. A.**, Han, H., Cho, B-Y., Fraundorf, S. H. (2022). (under review). Getting there is half the journey: A machine learning analysis of internet navigation behaviors in high-school digital literacy.
- Han, H., **Norberg, K. A.**, Fraundorf, S. H., Cho, B-Y. (2022). (under review). What makes skilled readers in print reading become more and less successful in an online setting?

PEER REVIEWED CONFERENCE PRESENTATIONS

- Norberg, K. A.**, Almoubayyed, H. et al. (2023, July 7). Rewriting Math Word Problems with Large Language Models. Paper presented at AIED2023 Empowering Education with LLMs – the Next-Gen Interface and Content Generation workshop, Tokyo, Japan
<https://ai4ed.cc/workshops/aied2023>
- Norberg, K. A.**, Fraundorf, S. H. (2022, July). Overcoming Comprehension Failure: A Metacognitive Perspective for the Allocation of Reading Time. Paper presentation at the Society for the Scientific Study of Reading, New Port Beach, CA.
- Norberg, K. A.**, Duff, D., Mckeown, M. G. (2021, July). Health Literacy: Cohesion, vocabulary, and reader characteristics interact to affect comprehension of written health information. Paper presented at the Society for the Scientific Study of Reading, virtual.
- Han, H., **Norberg, K.**, Cho, B. & Fraundorf, S. H. (2020, April). What makes skilled readers in print reading become more and less successful in an online setting? [Paper Session]. AERA Annual Meeting San Francisco, CA
<http://tinyurl.com/sugago8> (Conference Canceled)
- Cho, B.-Y., Fraundorf, S.H., **Norberg, K.A.**, Han, H. (2019, Dec.). Can metacognitive knowledge support adolescents' critical questioning in an internet

reading task? Paper presented at Literary Research Association, Tampa, FL.

Norberg, K. A., Han, H., Cho, B-Y., Fraundorf, S. H. (2019, July). Can online search strategies predict learning from internet sources? A correlational analysis. Paper presented at the Society for Text and Discourse, New York, NY. – **recipient of Outstanding Student Paper Award.**

Cho, B-Y., Fraundorf, S.H., **Norberg, K. A.**, Han, H. (2019, July). An experimental study of metacognitively-oriented digital reading interventions. Paper presented at the Society for the Scientific Study of Reading, Toronto, ON.

POSTER PRESENTATIONS

Norberg, K. A., Fraundorf, S. H. (2022, Mar.). *The influence of the ease-of-processing heuristic and attention on monitoring of text comprehension.* Poster accepted at the 35th Annual Conference on Human Sentence Processing, virtual.

Apgar, C., **Norberg, K. A.** (2022, Mar.). *Usage of Paralinguistic Features in Relation to Emotional Valence in Text Messaging Across Generations.* Poster accepted at the 35th Annual Conference on Human Sentence Processing, virtual.

Norberg, K. A., Perfetti, C., Helder, A. (2021, Aug.). Word-to-text integration and antecedent accessibility: Eye-tracking evidence extends results of ERPs. [Poster presentation]. 31st Annual Meeting of the Society for Text & Discourse, virtual.

Norberg, K. A., Fraundorf, S. H. (2020, March). Adaptive reading in response to connective location and clause order. [Poster presentation]. 33rd Annual CUNY Conference on Human Sentence Processing, Amherst, MA. <https://osf.io/m3uex/>

Norberg, K. A., Fraundorf, S. H. (2019, Nov.). Under the influence of connectives: how connective presence and clause order affect retention of text. Poster presented at the 60th Annual Meeting Psychonomics, Montréal, QC.

Norberg, K. A., Fraundorf, S. H. (2018, Nov.). What should I remember?: Clefts and connectives affect later text memory. Poster presented at the 59th Annual Meeting Psychonomics Society, New Orleans, LA.

Norberg, K. A., Fraundorf, S. H. (2018, June). What should I remember?: Clefts and connectives affect later text memory. Poster presented at the 6th International Workshop on Advance Learning Sciences, Pittsburgh, PA.

Norberg, K. A., Fraundorf, S. H. (2018, March). Adversative connectives' effect on recognition memory. Poster presented at the University of Pittsburgh Grad Expo, Pittsburgh, PA. – **recipient of Outstanding Presenter Award.**

Kacinik, N. A., **Norberg, K. A.**, Choudhary, M., Scotto, M. (2017, Nov.). Examining the invariance of word processing: Do manipulations of size affect size judgments. Poster presented at the Psychonomic Society 58th Annual Meeting, Vancouver, British Columbia, Canada.

Kacinik, N. A., **Norberg, K. A.** (2017, March). Cerebral asymmetries in metaphor comprehension: Examining the influence of task. Poster presented at the 24th Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

Kacinik, N. A., **Norberg, K. A.**, Klein, E., Feintuch, M., Goldberg, A., & Samouha, L. (2016, March). Small elephants and big needles: Perceptual information does not generally affect the processing of words. Poster presented at the 121st Annual Convention of the Eastern Psychological Association, New York City, NY.

OTHER SPOKEN PRESENTATIONS

Norberg, K. A. (2021, April). How to do multiple regression by hand. Paper presented at Community for Advanced Methodological Learning (student-organized statistics group), University of Pittsburgh, Pittsburgh, PA.

Norberg, K. A., Perfetti, C. (2021, Jan.). Making an antecedent more accessible in memory: A role for global context. Paper presented at Center for Neural Basis of Cognition Brain Bag, University of Pittsburgh, Pittsburgh, PA.

Norberg, K. A., Duff, D. (2020, Oct.). Constructing health texts to inform low literacy populations: The importance of measuring cohesion. Paper presented at University of Pittsburgh Chapter of the Psi Chi International Honor Society, Pittsburgh, PA.

Norberg, K. A., Duff, D. (2020, Sept.). Cohesion increases the “grade level” of a health text but improves comprehension. Paper presented at Cognitive Psychology Talk series, University of Pittsburgh, Pittsburgh, PA.

Norberg, K. A., Fraundorf, S. H. (2020, Jan.). Adaptive reading in response to connective location and clause order. Paper presented at Psychology Cognitive Lunchtime Talk Series, University of Pittsburgh, Pittsburgh, PA.

Norberg, K. A., Fraundorf, S. (2019, Sept.). Under the influence of connectives: Connective location and clause order influence online processing and retention of text. Paper presented at Reading and Language Group, University of Pittsburgh.

Norberg, K. A., Fraundorf, S. H. (2019, March). Under the influence of connectives: How connective location and clause order interact to influence retention of text. Paper presented at Cognitive Psychology Talk Series, University of Pittsburgh, Pittsburgh, PA.

Norberg, K. A., Fraundorf, S. H. (2018, April). What should I remember?: Clefts and connectives affect later text memory. Paper presented at Cognitive Psychology Talk Series, University of Pittsburgh, Pittsburgh, PA.

INSTITUTIONAL SERVICE

While at University of Pittsburgh:

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| 2020-2022 | LGBTQIA+ Community Group Coordinator, Psychology Department |
| 2020-2022 | Development and maintenance of Psychology Equity and Inclusion website: https://psychology.pitt.edu/equity-and-inclusion |
| 2020-2021 | Graduate representative, Psychology Department Executive Committee |
| 2020-2021 | Graduate student representative, Psychology Department COVID response team |
| 2019-2020 | Graduate student council representative, Learning Research & Development Center |
| 2018-2019 | Graduate student representative, Kenneth P. Dietrich School of Arts and Sciences Planning and Budget Committee |

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| 2018-2019 | Biweekly talk series coordinator, Reading and Language Group, Learning Research & Development Center |
| 2019-present | Ad hoc co-reviewer with Scott Fraundorf: <i>Cognition</i> <i>Discourse Processes</i> Ad hoc reviewer: <i>Journal of Experimental Psychology: Learning, Memory, and Cognition</i> <i>Argentine Journal of Behavioral Sciences</i> |

TEACHING

Undergraduate Courses

Introduction to Psychology 360 (Graduate TF – Fall 2021-Spring 2022)
 Psychological Aspects of Human Sexuality (Graduate TA – Spring 2021)
 Research methods (Graduate TA – Fall 2020)
 Developmental adult literacy skills (2013-2017)
 Freshman composition levels 1 and 2 (2007-2011)

Graduate Courses

Statistical Analysis II (Graduate TA and guest lecturer; Spring 2021 & 2022)

Workshops

Pedagogy training (Facilitator; 2014-2017)
 Led four workshops for teachers addressing pedagogical issues related to executive function, student engagement, and promoting comprehension.

MENTORING

Undergraduate B.Phil. honors thesis (equivalent to a Master's Thesis)

Catherine Apgar (2022)

Directed Research

Catherine Apgar (7 terms), Angela Tanygin (4 terms), Nishant Purewal (3 terms), Lydia Boyer (3 terms), Cody Gilbert (2 terms), Dongxiao Li (2 terms), Joanna Ye (2 terms), Danni Zhang (2 terms), Suzy Wan (2 terms), Lauren Zaslow (1 term), Brett Soltysiak (1 term), Sriteja Gummadi (1 term)

TECHNICAL and STATISTICAL EXPERIENCE

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| Computer | R, Python, SQL, EyeLink, Data Visualization |
| Statistical | Linear, Generalized Linear, and Mixed Effect Models; Random Forests; Bayesian Analysis and Bayes Factors |