

FRANCES GROSVENOR COOLEY, PHD

Department of Liberal Studies
National Technical Institute for the Deaf
Rochester Institute of Technology · 52 Lomb Memorial Drive · Rochester, NY 14623
(216) 256-5110 · fgcdls@rit.edu

PROFESSIONAL POSITIONS

Assistant Professor of Psychology JANUARY 2024– PRESENT
Department of Liberal Studies, National Technical Institute for the Deaf, Rochester Institute of
Technology

Postdoctoral Researcher JANUARY 2022– DECEMBER 2023
Department of Psychology, University of South Florida

RESEARCH INTERESTS

Eye-tracking and reading, psycholinguistics, unimodal and bimodal bilingualism,
acquisition of signed and spoken languages, signed and spoken developmental language
disorders, reading development, developmental psychology.

EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN AUSTIN, TX
Ph.D., Linguistics DECEMBER 2021
Advisor David Quinto-Pozos

UNIVERSITY OF TEXAS AT AUSTIN AUSTIN, TX
M.A., Linguistics MAY 2018
Advisor David Quinto-Pozos

UNIVERSITY OF ROCHESTER ROCHESTER, NY
B.A., Brain and Cognitive Science, American Sign Language JUNE 2013

AWARDS AND HONORS

Dissertation Fellow, National Academy of Education (NAEd)/Spencer, 2020
Investigating the role of visual language on reading strategies in native deaf signers.

RESEARCH EXPERIENCE

ROCHESTER INSTITUTE OF TECHNOLOGY (RIT) ROCHESTER, NY
NATIONAL TECHNICAL INSTITUTE FOR THE DEAF (NTID)
Assistant Professor, Psychology JANUARY 2024 – PRESENT
Primary Investigator, Reading And Deafness (RAD) Lab

UNIVERSITY OF SOUTH FLORIDA
Postdoctoral Researcher, Psychology

TAMPA, FL
JANUARY 2022 – DECEMBER 2023

Project: The role of perceptual and word identification spans in reading efficiency:
Evidence from deaf and hearing adults

Postdoctoral subproject: The role of length, frequency, and predictability: Evidence from
deaf and hearing adults

UNIVERSITY OF TEXAS AT AUSTIN
Doctoral and Postdoctoral Researcher

AUSTIN, TX
APRIL 2019 – DECEMBER 2023

Research assistant to David Quinto-Pozos: Vocabulary development of visual language
and reading in native signers.

Doctoral Researcher

SEPTEMBER 2018 – DECEMBER 2021

Co-Investigator with David Quinto-Pozos: Spelling and sounds: Phonological and
orthographic processing during single-word reading.

Co-Investigator with David Quinto-Pozos: Investigating the role of phonological
awareness of deaf children during reading.

Co-Investigator with David Quinto-Pozos: Examining cases of atypical signed language
acquisition (ASA)

EXTERNAL AND INTERNAL FUNDING

Sponsored Portfolio Development Initiative (SPDI), Rochester Institute of Technology (RIT)
/National Technical Institute for the Deaf (NTID), Rochester NY

PI: Frances Cooley

Co-PIs: Karen Emmorey (SDSU), Rain Bosworth (RIT/NTID)

SPDI Career Development Initiative

Early language experience and reading behaviors of deaf adults: An eye-tracking study

Funding for May, 2024 – April, 2026: \$14,950

National Scientific Foundation, Alexandria, VA.

PIs: Elizabeth Schotter, Karen Emmorey

Supplemental Funding for Postdoctoral Researchers to Mitigate COVID19 Impacts on
Research Career Development

Funding for March 2022 – March 2024, \$200,000

National Academy of Education/Spencer, Washington D.C.

PI: Frances Cooley

Funding for September 2020 – August 2021: \$27,500

EXTERNAL AND INTERNAL FUNDING IN PREP

R21Exploratory Research Grant, National Institute of Health (NIH), NIDCD

PI: Frances Cooley

Co-I: David Quinto-Pozos (UT Austin)

Deafness, sign language, and the emergence of reading efficiency: An eye-tracking study of native signing deaf adolescents

Expected submission: January, 2025

PUBLICATIONS

Cooley, F. G., Saunders, E., Sinclair, G., Stringer, C., Emmorey, K., & Schotter, E.R., (in press). Deaf readers' increased reliance on word length and predictability, but not frequency, to support reading efficiency. *Journal of Experimental Psychology: Language, Memory, and Cognition*.

Schotter, E.R., Stringer, C., **Cooley, F.G.**, Saunders, E., Sinclair, G., & Emmorey, K. (2024). The perceptual and word identification spans in reading: Evidence from deaf and hearing adults. *Journal of Experimental Psychology: General*.

Stringer, C., **Cooley, F. G.**, Saunders, E., Emmorey, K., & Schotter, E.R. (2024). An enhanced leftward word identification for deaf readers. *Quarterly Journal of Experimental Psychology*

Cooley, F. G. & Quinto-Pozos, D. (2023). Examining speech-based phonological recoding during reading for adolescent deaf signers. *Journal of Experimental Psychology: General*, 152 (7), 1995-2007.

Quinto-Pozos, D. & **Cooley, F. G.** (2020). A developmental disorder of signed language production in a native deaf signer of ASL. *Languages: Atypical Speech, Language, and Communication Development*, 5 (40).

Shield, A., **Cooley, F. G.**, & Meier, RP. (2017). Sign language echolalia in deaf children with Autism spectrum disorder, *Journal of Speech, Language, and Hearing Research*, 60, 1622-1634.

IN PREP

Cooley, F.G., Saunders, E., Sinclair, G., Stringer, C., Emmorey, K., & Schotter, E.R., (in prep). Visual, lexical, and contextual influences on efficient reading processes of deaf bilinguals: An eye-tracking corpus analysis

Sinclair, G, **Cooley, F. G.**, Stringer, C., Saunders, E., Emmorey, K., & Schotter, E. (in prep). The impact of an enhanced perceptual span on landing position: Evidence from hearing and deaf readers

Schotter, E.R., Milligan, S., Stringer, C., **Cooley, F.G.**, Saunders, E., Sinclair, G., & Emmorey, K. (in prep). Assessing individual differences in the visual perceptual span during reading.

Schotter, E.R., Milligan, S., Stringer, C., **Cooley, F.G.**, Saunders, E., Sinclair, G., & Emmorey, K. (in prep). Assessing individual differences in the visual perceptual span during reading in deaf adult signers.

BOOK CHAPTERS

Cooley, F.G. (in prep). *Deafness, sign language, and enhanced reading efficiency: Evidence from eye-tracking*. A festschrift for Richard P. Meier (Eds. Cormier, K., Quinto-Pozos, D., & Shield, A.)

PRESENTATIONS

Schotter, E. R., Saunders, E., **Cooley, F. G.**, Sinclair, G., & Emmorey, K. (2024). *Where and when saccade decisions do not dissociate with perceptual and word identification spans: Evidence from the eye movements of deaf and hearing readers*. Annual Meeting of the Psychonomic Society, New York, NY. November, 2024.

Sinclair, G., **Cooley, F. G.**, Saunders, E., Emmorey, K., & Schotter, E. R. (2024). *The effect of a larger reading span on landing position in deaf readers: An eye-tracking study*. Annual Meeting of the Psychonomic Society, New York, NY. November, 2024.

Cooley, F. G., Emmorey, K., Saunders, E., Sinclair, G., Stringer, C., Schotter, E. R., & (2024). *A corpus study of length, frequency, and surprisal effects in deaf and hearing readers*. European Conference on Eye-Movements, Maynooth, Ireland. August 25 – 29, 2024.

Emmorey, K., Stringer, C., Saunders, E., Sinclair, G., **Cooley, F. G.**, Schotter, E. R. (2024). *The unique eye movement profile of deaf readers reveals the plasticity of the reading system*. European Conference on Eye-Movements, Maynooth, Ireland. August 25 – 29, 2024.

Schotter, E. R., Stringer, C., Saunders, E., **Cooley, F. G.**, Sinclair, G., & Emmorey, K. (2024). *Perceptual and word identification spans do not differentially impact when and where saccade decisions*. European Conference on Eye-Movements, Maynooth, Ireland. August 25 – 29, 2024.

Cooley, F. G., Saunders, E., Stringer, C., Sinclair, G., Schotter, E. R., & Emmorey, K. (2023). *Rethinking deafness, reading, and bilingualism: Evidence from eye-tracking*. Annual Meeting of the Psychonomics Society, San Francisco, CA. November 18th, 2023.

Cooley, F. G. & Schotter, E. R. (2023b). *Reading efficiency and the unique experience of deaf signers: Evidence from eye-tracking*. Florida Psycholinguistics Meeting, Gainesville, FL. October 21st, 2023.

Cooley, F. G. & Schotter, E. (2023a). *What do eye-movements of skilled deaf readers reveal about bilingual readers?* Human Sentence Processing HSP2023. Pittsburgh, PA. March

10th, 2023.

Cooley, F. G. & Schotter, E. (2022). *Skilled, efficient reading in deaf child signers: A small-scale eye-tracking study*. European Conference on Eye-Movements, Leicester, UK. August 21 – 25, 2022.

Sehr, Z, **Cooley, F. G.**, & Quinto-Pozos, D. (2021). *Reading and visual recognition skills in deaf and hard-of-hearing signers*. Symposium panel presented at the Society for the Scientific Study of Reading, online meeting. July 14 – 17, 2021.

Quinto-Pozos, D. & **Cooley, F. G.** (2021). *Vocabulary knowledge and reading for ASL-English bilinguals*. Society for the Scientific Study of Reading, online meeting, July 15, 2021.

Cooley, F. G., Quinto-Pozos, D., Schotter, L., Lieberman, A., & Booth, J. (2020). *Understanding Deaf Readers as Bilinguals: An investigation into sign language and reading*. Symposium panel accepted for the Society for the Scientific Study of Reading, July 8-11, Newport Beach, CA. **CANCELED DUE TO CORONAVIRUS**

INVITED TALKS

Cooley, F. G. (2024). Rethinking deafness, reading, and bilingualism: Evidence from eye-tracking. *The Science of Neural, Interpersonal Communication (SoNIC) Lab*, University of Rochester, Rochester NY. March 8th, 2024.

Cooley, F. G. & Saunders, E. (2023). What do eye-movements reveal about deaf readers? *PEN Program*, Gallaudet University. September 20th, 2023.

Cooley, F. G. (2023). What do eye-movements reveal about deaf readers? *Psycholinguistics Lab*, University of Birmingham. 12th May 2023.

Cooley, F. G. (2022). Deaf and hearing children read differently: Evidence from two small-scale psycholinguistic studies. *SPaCE Center, RIT/NTID*. 22nd March 2022.

POSTERS

Cooley, F. G., Saunders, E., Sinclair, G., Emmorey, K., & Schotter, E. R., (2024). *Length, frequency, and surprisal effects and reading efficiency: Evidence from a corpus analysis of deaf and hearing readers' eye-movements*. Annual Meeting of the Psychonomic Society, New York, NY. November, 2024.

Stringer, C., **Cooley, F. G.**, Saunders, E., Sinclair, G., Emmorey, K., & Schotter, E.R. (2023). *Deaf Readers Use Leftward Information to Read More Efficiently: Evidence from Eye Tracking*. Annual meeting of the Psychonomic Society, San Francisco, CA. November 18th, 2023.

- Saunders, E., Stringer, C., Sinclair, G., **Cooley, F. G.**, Schotter, E. R., & Emmorey, K. (2023). *Predictors of Word and Sign Superiority Effects for Deaf Readers*. Annual meeting of the Psychonomic Society, San Francisco, CA. November 17th, 2023.
- Sinclair, G., **Cooley, F., G.** & Schotter, E. R. (2023) “The impact of deaf readers’ visual enhancements on the precision of landing position during reading”. *Florida Psycholinguistics Meeting*, Gainesville, FL. October 21st, 2023.
- Cooley, F. G.** & Schotter, E. R. “Deafness, bilingualism, and the Big Three: How do length, frequency, and predictability support efficient reading in deaf native signers?” *Architectures and Mechanisms for Language Processing (AMLaP) 2023*, San Sebastian, Spain. August 31st, 2023.
- Cooley, F. G.** & Schotter, E. R. “Length, Frequency, and Predictability: Examining the Impact of the Big 3 on Skilled Deaf Readers”. *Meeting of the Psychonomic Society 2022*, Boston, Mass., November 18th, 2022.
- Cooley, F. G.** & Quinto-Pozos, D. “Investigating the Role of Phonological Awareness on Reading in Deaf Native Signers” *Theoretical Issues in Sign Language Research*, Hamburg, Germany, September 27th, 2019.
- Cooley, F. G.** & Quinto-Pozos, D. “Investigating Language Knowledge and Reading Skill in Native Deaf Signers” *Workshop on Reading, Language, and Deafness*, San Sebastian, Spain, October 18th, 2018.
- Cooley, F. G.** & Quinto-Pozos, D. “Investigating the Role of Phonological Awareness on Phonological Recoding in Early Deaf Readers” *Workshop on Reading, Language, and Deafness*, San Sebastian, Spain, October 17th, 2018.
- Cooley, F. G.** & Quinto-Pozos, D. “Atypical Language Production for a Deaf Adolescent Native Signer” *Linguistics Society of America*. Austin, TX., January 5-9th, 2017.
- Cooley, F. G.** & Quinto-Pozos, D. “Atypical Language Production of a Deaf Adolescent Signer: Motor Disorder or Language Disorder?” *SRCD Pre-Conference Graduate Student Workshop on Deaf and Hard of Hearing Research*. April 28th, 2017.
- Cooley, F. G.** & Quinto-Pozos, D. “Native-Signing Children with Autism Produce Signed Echoes” *Symposium on Research in Child Language Disorders*. Madison, WI., June 17th, 2016.
- Cooley, F.G.** & Shield, A. “Three Possible Modality Differences Between Signed and Spoken Language Echolalia” *Theoretical Issues Sign Language Research*. Melbourne, Australia, January 6th, 2016

TEACHING EXPERIENCE

ROCHESTER INSTITUTE OF TECHNOLOGY

ROCHESTER, NY

Assistant Professor of Psychology

Introduction to Psychology

SPRING 2024

Psychological Disorders

FALL 2024

UNIVERSITY OF TEXAS AT AUSTIN

AUSTIN, TX

Instructor of Record

Introduction to Linguistics

FALL 2019

Introduction to Linguistics

SPRING 2019

Introduction to Linguistics

FALL 2018

Teaching Assistant

Introduction to the Human Mind (Nathan Engel-Hawbecker, Philosophy)

FALL 2021

Introduction to Linguistics (Nora England, Linguistics)

SPRING 2020

Introduction to Cognitive Science (Suzanne van der Feest, Linguistics)

SPRING 2018

Language Change and Language Variation (Danny Law, Linguistics)

FALL 2017

Introduction to Cognitive Science (Suzanne van der Feest, Linguistics)

SPRING 2017

Language Change and Language Variation (Danny Law, Linguistics)

FALL 2017

Bilingual Language Acquisition (David Quinto-Pozos, Linguistics)

SPRING 2016

Phonetics (Scott Myers, Linguistics)

FALL 2015

Undergraduate Supervising Experience

Student: Janeva Mosher

SPRING 2024– PRESENT

Project: The role of length, frequency, and predictability: Evidence from deaf and hearing adults*Role:* Deaf Undergraduate Research Assistant*Student:* Cameron Hoffman

SPRING 2024– PRESENT

Project: The role of length, frequency, and predictability: Evidence from deaf and hearing adults*Role:* Undergraduate Research Assistant*Student:* Abby Jones

SPRING 2024– PRESENT

Project: The role of length, frequency, and predictability: Evidence from deaf and hearing adults*Student:* Casey Stringer

SPRING 2022– PRESENT

Project: The role of perceptual and word identification spans in reading efficiency: Evidence from deaf and hearing adults*Student:* Grace Sinclair

SPRING 2022– PRESENT

Project: The role of perceptual and word identification spans in reading efficiency: Evidence from deaf and hearing adults

TECHNICAL SKILLS

Analysis programs: PRAAT, Elan, R

Software: PsychoPy, Pavlovia.org, E-Prime, Experiment Builder, DataViewer

Coding: Python

Advanced statistical knowledge

- Experience with ANOVA, linear mixed-effects regression modeling
- Completed statistics coursework in behavioral psychology: Advanced Statistics, Regression & ANOVA, Advanced Applied Stats I, Advanced Applied Stats II

Grant writing Experience:

- RIT/NTID Sponsored Portfolio Development Initiative (SPDI; sub. Spring 2024, awarded Spring 2024)
- NSF Supplemental Funding for Postdoctoral Researchers to Mitigate COVID19 Impacts on Research Career Development (sub. Dec. 2021, awarded Spring 2022)
- NAE/d Spencer Doctoral Dissertation Award (sub. Fall 2019, awarded Spring 2020)
- F31 Ruth L. Kirschstein National Research Service Award (sub. Spring 2019)
- F31 Ruth L. Kirschstein National Research Service Award (sub. Spring 2018)

LEADERSHIP AND SERVICE

Tutor, Philosophy and Psychology

SPRING 2024 – PRESENT

- Available for deaf and hard-of-hearing cross-registered students who need support in bachelors level Philosophy and Psychology courses (various).

Reviewer, International Symposium on Bilingualism

SUMMER 2024

Reviewer, Linguistics Society of America

SUMMER 2024

Endometriosis Foundation of Houston

SPRING 2023 – SUMMER 2024

- Assisted in writing a grant to develop a curriculum for school nurses at Houston Independent School District (HISD) to raise awareness about endometriosis in school settings to achieve early diagnosis and intervention for those who suffer.
- GRANT AWARDED June, 2023.
- Continued work analyzing post-workshop data and writing reports.

Anti-Racism Committee, Department of Linguistics

SUMMER 2020 – DEC. 2021

- Co-founded the anti-racism committee to encourage anti-racist activity on personal, departmental, and field-wide level.

Executive Committee for the Associated Students of Linguistics

(ASOL)

FALL, 2018 – FALL, 2020

- Assisted in organizing academic, social, and administrative committees of the graduate students in the linguistics department.
- Provided support for younger graduate students in the department and prompted committees to continue their service for the department.

Psycholinguistics Faculty Member Search Committee Member DEC 2019 – JAN 2020

- Assisted in the selection of a long list of 10 candidates from over 90 applications for Skype interviews; selection of short list of 4 candidates for on-campus interviews, and finally the selection of the newly appointed psycholinguistic faculty member in the department.

Co-chair; 17th Texas Linguistics Society (TLS 17); Austin, TX. SEPTEMBER, 2017

- Assisted in choice of topic, keynotes, and presenters; coordinated funding requests, catering, on-site trouble-shooting, and coordination.

Co-chair; 25th meeting of the Symposium About Language and Society Austin (SALSA); Austin, TX., APRIL, 2017

- Assisted in choice of topic, keynotes, and presenters; coordinated funding requests, catering, on-site trouble-shooting, and coordination

REFERENCES

Elizabeth R. Schotter, Ph.D.

David Quinto-Pozos, Ph.D.

Richard P. Meier, Ph.D.

Jenny Singleton, Ph.D.

Karen Emmorey, Ph.D.