Casey Seana MacNamara Ferrara

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EDUCATION

University of Chicago — Chicago, IL
PhD program, Psychology — 2018 - Present
Advisor: Susan Goldin-Meadow

Swarthmore College — Swarthmore, PA
B.A., Double Major in Psychology & Linguistics — 2010 - 2014
Thesis: Eye-tracking study of scalar-implicature verification

PUBLICATIONS IN PROGRESS

Ferrara, C., Napoli, D.J. (2020). *Spatial reference in sign languages: the role of starting point in the representation of shape information.* Manuscript in preparation.

Napoli, D.J., **Ferrara, C.** (2020). *The interaction of handshape and movement parameters in sign languages.* Manuscript submitted for publication.

Clements, A., Blass, B., **Ferrara, C.**, Duquette, K., Thompson-Schill, S., Middleton, E. (2020). *An Examination of the Neural Bases of Conceptual Combination in Stroke Aphasia.* Paper submitted for presentation at Twelfth Annual Meeting of the Society for the Neurobiology of Language.

Hakguder, E., **Ferrara, C.**, Martinez del Rio, A., Kim, S. (2020). *Identifying the Correlations Between the Lexical Semantics and Phonology of ASL: A Vector Space Approach*. Paper submitted for presentation at the 94th Annual Meeting of the Linguistics Society of America.

PEER-REVIEWED PUBLICATIONS

Ferrara, C., Coslett, H. B., Buxbaum, L. (Forthcoming). Manual Lesion Segmentation. In D. Pustina & D. Mirman (Eds.), *Lesion-to-Symptom Mapping: Principles and Tools.*

Ferrara, C., & Napoli, D.J. (2019). Manual Movement in Sign Languages: One Hand Versus Two in Communicating Shapes. *Cognitive Science*, *43*(9).

Mirman, D., Landrigan, J. F., Kokolis, S., Verillo, S., **Ferrara, C.**, & Pustina, D. (2017). Corrections for multiple comparisons in voxel-based lesion-symptom mapping. *Neuropsychologia*.

Leeson, L., Stewart, M., **Ferrara, C.,** Drexel, I., Nilsson, P., & Cooper, M. (2017). "A President for all of the Irish": Performing Irishness in an interpreted Inaugural Presidential Speech. In C. Stone & L. Leeson (Eds), *Interpreting and the politics of recognition. London: Routledge*.

Britt, A. E., **Ferrara, C.,** & Mirman, D. (2016). Distinct effects of lexical and semantic competition during picture naming in younger adults, older adults, and people with aphasia. *Frontiers in psychology*, *7*.

POSTERS & PRESENTATIONS

Lu, J., Ferrara, C., Lepic, R. (2020) *Revisiting the Core vs. Classifier Problem*. Accepted as signed/spoken presentation at Sign CAFÉ 2 conference 2020; Ragusa, Italy. (conference cancelled due to COVID-19)

Ferrara, C. & Napoli, D.J. (2019). *Handshape, Movement, and Geometry: Communicating shapes in sign languages*. Presented at The 13th Annual Theoretical Issues in Sign Language Research Conference 2019; Hamburg, Germany. (Presenting co-author: Ferrara, C.)

Schwartz, M., Brown, D., **Ferrara, C.** (2015*) The "Verbal Stroop Task: A New Paradigm for assessing Executive Control in Word Retrieval*. Presented at The 45th Clinical Aphasiology Conference 2015; Monterey Bay, CA. (Presenting co-author: Brown, D.)

Leeson, L., Stewart, M., **Ferrara, C.**, et. al (2014). "*A President for all of the Irish": Performing Irishness in an interpreted Inaugural Presidential Speech.* Presented at The European Forum of Sign Language Interpreters (EFSLI) 2014; Antwerp, Belgium. (Presenting co-author: **Ferrara**, **C.)**

**Also presented at The Association of Visual Interpreters of Canada (AVLIC) 2014; Winnipeg, Canada & The Irish Association for Applied Linguistics 40th Anniversary Conference 2015; Dublin, Ireland*

Ferrara, C., Reynolds, J.T., Sen, K., Perkoff, M., Mirus, G., Napoli, D.J. (2014). "*Rocky the Cat who Barks-American Sign Language & Fiji Sign Language translations"*. RISE ("Reading Involves Shared Experience") bi-modal e-book series**.** Presented at Gallaudet University and Swarthmore College; Available on iTunes.

RESEARCH EXPERIENCE

Graduate Research Assistant
University of Chicago 2018 - Present

Goldin-Meadow Lab. PI: Susan Goldin-Meadow, PhD.

- Conducting a study exploring how lexical signs in American Sign Language can be iconically modified, and how this type of modification compares to iconic gesture.

Senior Research Assistant, joint position 2016 - 2018
Moss Rehabilitation Research Institute (MRRI) & University of Pennsylvania

Cognitive Neurophysiology & Neuropsychology Lab, MRRI. PI: Edward Wlotko, Ph.D.

- Developed the lab's battery of > 20 cognitive and linguistic tests.
- Tested >20 right and left hemisphere stroke patients on behavioral and EEG measures.
- Responsible for data management, coding, and statistical analysis.

Thompson-Schill Lab, University of Pennsylvania. PI: Sharon Thompson-Schill, Ph.D.

- Developed and conducted a study of conceptual combination in post-stroke aphasia, exploring whether distinct types of conceptual formation are supported by different neural substrates.
- Designed an experimental protocol and task materials in an aphasia-friendly format.
- Identified, recruited, tested, and collected MRI scans for patients included in this study.

Research Assistant, joint position 2014 **-** 2016
MRRI & Drexel University

Language & Aphasia Lab, MRRI. PI: Myrna Schwartz, Ph.D.

- Administered and scored a broad array of clinical measures of language impairment.
- Identified and traced lesions in post-stroke MRI scans to reliability with UPenn neurologist.
- Performed multiple voxel-based lesion symptom mapping (VLSM) analyses to examine neural correlates of impairment.

Language and Cognitive Dynamics Lab, Drexel University. PI: Daniel Mirman, Ph.D.

- Collected patient eye-tracking data for a study investigating how phonological and semantic information interact to influence the time course of spoken word recognition.
- Collected and analyzed data for a study exploring a distinction between lexical and semantic competition in picture naming in aphasia (Britt, Ferrara, & Mirman, 2016).
- Ran statistical analyses evaluating permutation-based correction methods for multiple comparisons in VLSM (Mirman, Landrigan, Kokolis, Verillo, Ferrara, & Pustina, 2017).

Undergraduate Research Assistant
Swarthmore College

Psycholinguistics Lab. PI: Daniel Grodner, Ph.D. 2013 – 2014

- Designed and implemented thesis experiment on scalar implicature processing.
- Compiled, analyzed, and presented these data in poster session and thesis paper.

EEG Cognitive-Neuroscience Lab. PI: Daniel Grodner, Ph.D. 2013 – 2014

- Collected EEG data for tasks exploring neural correlates of implicature-related ambiguity and conversational perspective-taking.

Cognitive Psychology Lab. PI: Frank Durgin, Ph.D. 2011

- Collected eye-tracking data for an experiment investigating written metaphor processing.

TEACHING EXPERIENCE

Graduate Teaching Intern Winter & Spring 2020
University of Chicago, *Mind*

Teaching Assistant Spring 2014
Swarthmore College, *The Structure of American Sign Language*

Grader Fall 2012
Swarthmore College, *Semantics*