

Jonathan Keane

Department of Linguistics
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Current position

Post-Doctoral Fellow
Center for Gesture, Sign, and Language
The University of Chicago

Areas of specialization

Articulatory phonetics and phonology, signed languages, ASL, fingerspelling, syntax, morphology, variation, data analysis, computational approaches to linguistics

Education

- 2014 PhD (with honors) in Linguistics, University of Chicago
Dissertation title Towards an articulatory model of handshape:
What fingerspelling tells us about the phonetics and phonology of handshape in ASL.
Advisors Diane Brentari and Jason Riggle
- 2007 BA (Magna cum Laude) in Linguistics, University of Florida
BA Thesis Nominal Incorporation in English
Advisor D. Gary Miller

Awards + funding

- 2013–2015 NSF Doctoral Dissertation Research Improvement Grant
Coarticulation and the phonetics of fingerspelling
BCS1251807
- 2013 Nominated for best student presentation at TISLR 11 for *Towards an articulatory model of handshape*
- 2013–2014 Mellon Humanities Dissertation-Year Fellowship
- 2010 Rella I Cohn fund Graduate student research funding – ASL fingerspelling data collection
- 2008– Graduate Aid Initiative University of Chicago
- 2007 University Scholars Program University of Florida

Papers + talks

Journal articles

- submitted Jonathan Keane, Zed Sevcikova, Karen Emmorey, Diane Brentari. A Theory-Driven Model of Handshape Similarity. In *Under Review*.
- submitted Diane Brentari, Jonathan Keane, Joseph Hill, Brianne Amador. Variation in American Sign Language Rhythm and Prominence: Age, Ethnicity, and Gender. In *Under Review*.
- 2015 Diane Brentari, Alessio Di Renzo, Jonathan Keane, Virginia Volterra. Cultural, and Linguistic Sources of a Handshape Distinction Expressing Agentivity. In *Topics in Cognitive Science*, vol. 7, no 1, pp. 95–123.

Proceedings

- 2014 Leah Geer, Jonathan Keane. Exploring Factors that Contribute to Successful Fingerspelling Comprehension.

In Nicoletta Calzolari, Khalid Choukri, Thierry Declerck, Hrafn Loftsson, Bente Maegaard, Joseph Mariani, Asuncion Moreno, Jan Odijk, Stelios Piperidis eds., *Proceedings of the Ninth International Conference on Language Resources and Evaluation (LREC'14)*.

- 2013 **Jonathan Keane**, Diane Brentari, Jason Riggle. Coarticulation in ASL fingerspelling. In *Proceedings of the North East Linguistic Society*, vol. 42.

Book chapters

- forthcoming **Jonathan Keane**, Diane Brentari. Fingerspelling: Beyond Handshape Sequences. In Marc Marschark, Patricia Spencer eds., *The Oxford Handbook of Deaf Studies in Language: Research, Policy, and Practice*.
- 2015 **Jonathan Keane**, Diane Brentari, Jason Riggle. Segmentation and pinky extension in ASL fingerspelling. In Eric Raimy, Chuck Cairns eds., *The Segment in Phonology and Phonetics*.

Conference presentations

- 2014 **Jonathan Keane**, Leah Geer. "Holds or Transitions: Which Is More Important?" Chicago Linguistics Society 50
- 2013 **Jonathan Keane**. "What handshape tells us about active versus inactive articulators" Phonology 2013
- 2013 **Jonathan Keane**, Jason Riggle, Diane Brentari. "The Timing of ASL Fingerspelling" Texas Linguistics Society 14
- 2013 **Jonathan Keane**. "Towards an articulatory model of handshape" Theoretical Issues in Sign Language Research 11; London, UK
- 2013 Diane Brentari, Alessio Di Renzo, **Jonathan Keane**, Virginia Volterra. "Handshape (HS) as an Expression of Agency across Languages and Cultures" Theoretical Issues in Sign Language Research 11
- 2013 **Jonathan Keane**. "Developing an articulatory model of handshape" Midwest Speech and Language Days 2013
- 2012 **Jonathan Keane**, Diane Brentari, Jason Riggle. "Handshape assimilation in ASL fingerspelling" Societas Linguistica Europaea, Loanwords as Evidence in Formal Linguistics
- 2012 **Jonathan Keane**, Diane Brentari, Jason Riggle. "Categorical vs. Gradient: What ASL fingerspelling teaches us about the phonetics-phonology interface" Texas Linguistics Society 13
- 2012 **Jonathan Keane**, Diane Brentari, Jason Riggle. "Segments in ASL fingerspelling" CUNY Phonology Forum Conference on the Segment
- 2012 **Jonathan Keane**, Diane Brentari, Jason Riggle. "Handshape and coarticulation in ASL fingerspelling" Linguistic Society of America 2012 Annual Meeting
- 2011 **Jonathan Keane**, Susan Rizzo, Diane Brentari, Jason Riggle. "Phonetic coding of fingerspelling" Building sign language corpora in North America
- 2011 **Jonathan Keane**, Erin Dahlgren, Jason Riggle. "Variation in segment duration in ASL fingerspelling" Linguistic Society of America 2011 Annual Meeting

Invited talks

- 2014 **Jonathan Keane**. "Variation in fingerspelling: time, pinky extension, and what it means to be active" Gesture in Accented Language workshop at University of Illinois at Urbana-Champaign
- 2013 **Jonathan Keane**. "Variation in fingerspelling: time, pinky extension, and what it means to be active" Language Variation and Change; Language, Cognition, and Computation workshops
- 2011 **Jonathan Keane**. "Data coding of, and transition time in, ASL fingerspelling" The Language, Cognition, and Computation workshop, University of Chicago

Posters

- 2016 **Jonathan Keane**, Leah Geer. "Understanding fingerspelling comprehension" Theoretical Issues in Sign Language Research 12

- 2015 **Jonathan Keane.** “Similarity of Handshape: an articulatory model” ICPhs 2015; Paper accepted as a poster, but withdrawn from the conference due to a scheduling conflict
- 2015 **Jonathan Keane.** “Quantifying handshape similarity: a theory-driven approach” Midwest Speech and Language Days
- 2014 **Jonathan Keane,** Diane Brentari, Jason Riggle. “The timing of ASL fingerspelling” Linguistic Society of America 2014 Annual Meeting
- 2013 **Jonathan Keane,** Diane Brentari, Jason Riggle. “Dispelling prescriptive rules in ASL fingerspelling: the case of -E-” Theoretical Issues in Sign Language Research 11; London, UK
- 2012 **Jonathan Keane,** Diane Brentari, Jason Riggle. “Pinky extension coarticulation in ASL fingerspelling” Illinois Speech Day
- 2011 **Jonathan Keane,** Diane Brentari, Jason Riggle. “Co-articulation in ASL fingerspelling” North East Linguistic Society 42: University of Toronto

Qualifying papers

- 2011 **Jonathan Keane.** *A new look at scrambling in Japanese* University of Chicago Qualifying paper, defended 24 May 2011 Advisors: Karlos Arregi and Ming Xiang
- 2010 **Jonathan Keane.** *Segment duration and the phonetics of fingerspelling ASL* University of Chicago Qualifying paper, defended 18 October 2010 Advisors: Jason Riggle and Diane Brentari

Software

- 2014 **Jonathan Keane.** “AMOHs Python module” Version 0.1.0 zenodo.org/record/11456

Experience

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| 2011– | <i>Lab Manager</i> Sign Language Linguistics Laboratory | University of Chicago |
| | Diane Brentari | |
| 2009– | <i>Research Assistant</i> Chicago Language Modeling Laboratory | University of Chicago |
| | Jason Riggle | |
| | Automated sign language recognition working group | |
| 2006 | <i>Research Assistant</i> Variation in Control Structures | University of Florida |
| | Eric Potsdam | |

Teaching

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| 2013 fall | <i>Topic Instructor</i> Phonological Analysis 2 – Jason Riggle |
| | <i>Topics</i> Data coding, data analysis, R, statistical methods |
| 2012 fall | <i>Lecturer</i> Introduction to Linguistics |
| 2012 spring | <i>Teaching Assistant</i> Introduction to Linguistics – Ryan Bochnak |
| | <i>Guest lecture</i> Sign Language Linguistics |
| 2012 winter | <i>Teaching Assistant</i> Introduction to Phonetics and Phonology – Alan Yu |
| 2011 fall | <i>Guest lecture</i> Sign Language Linguistics – The phonetics of fingerspelling and its relation to ASL |
| 2011 spring | <i>Teaching Assistant</i> Introduction to Syntax – Amy Dahlstrom |
| | <i>Guest lecture</i> Crosslinguistic syntactic reflexes of topic and focus |

Service

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| 2011–2013 | <i>Coordinator</i> Council on Advanced Studies workshop: Language, Cognition, and Computation |
| 2013 | <i>Reviewer</i> 49th Annual Meeting of the Chicago Linguistic Society |
| 2012 | <i>Reviewer</i> 48th Annual Meeting of the Chicago Linguistic Society |

2011 *Graduate Coordinator* for prospective student recruitment activities
2011 *Reviewer* 47th Annual Meeting of the Chicago Linguistic Society
2011 *Graduate student liaison* to faculty
2009–10 *Officer and conference organizer* Chicago Linguistic Society
2010 *Reviewer* 46th Annual Meeting of the Chicago Linguistic Society
2009 *Reviewer* 45th Annual Meeting of the Chicago Linguistic Society (Committee: Syntax)

Memberships

2013– Sign Language Linguistics Society
2008– Linguistic Society of America

Languages

English (native), American Sign Language (fluent), German (reading), Swedish (basic), Japanese (basic), Hebrew (basic)

Computer languages + applications

Python, R, SQL, \LaTeX , (x)HTML, PHP, C, ELAN, microcontrollers, emacs, OpenOffice, Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Mac OS X, Linux/UNIX, PhaseSpace motion capture equipment