

1 January 2016

## ANN SENGHAS

### A. Personal information

Name: Ann Senghas, PhD  
Rank: Professor  
Citizenship: USA

Office: Department of Psychology  
Milbank 415 G  
Barnard College  
3009 Broadway  
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Tel: (212) 854-0115  
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### B. Degrees in Higher Education

1995 Ph.D. Massachusetts Institute of Technology, 1990-1995  
Brain and Cognitive Sciences  
Dissertation: *Children's contribution to the birth of Nicaraguan Sign Language*  
Advisor: Steven Pinker

1986 A.B. Smith College, 1982-1986, *cum laude*  
Major: French      Minor: Psychology

### C. Additional Professional Training

Post Graduate Student, Linguistic Society of America Summer Linguistic Institute, 1991, 1995  
Focus: sign language linguistics, grammaticalization, gesture

Visiting Undergraduate Student, Université de Paris IV (Sorbonne), 1984-1985

### D. Professional Experience in Higher Education

BARNARD COLLEGE, COLUMBIA UNIVERSITY

2014-present Professor, Department of Psychology  
Teaching includes *Introduction to Psychology* (35 students), *Developmental Psychology* (80 students), *Developmental Psychology with Laboratory* (48 students), *Science and Scientists* (20 students), and a graduate seminar in *Language Development* (15 students). Directing research laboratory in language acquisition and language change, primarily studying the emergence of Nicaraguan Sign Language.

2010-2013 Department Chair, Department of Psychology

2011-2013 Tow Associate Professor of Psychology.

2007-2014 Associate Professor of Psychology.

1999-2007 Assistant Professor, Department of Psychology.

RADCLIFFE INSTITUTE FOR ADVANCED STUDY, HARVARD UNIVERSITY

2014-2015 Mary I. Bunting Fellow

WELLESLEY COLLEGE

2009 Visiting Scholar, Department of Psychology, Wellesley College.  
summer and fall semesters.

BOSTON UNIVERSITY

2008-2009 Visiting Scholar, Program in Deaf Studies, Boston University School of Education.

HARVARD UNIVERSITY

2003-2004 Visiting Assistant Professor, Department of Psychology, Harvard University.  
Served as visiting faculty during a sabbatical academic year in the Laboratory for  
Developmental Studies.

MAX PLANCK INSTITUTE FOR PSYCHOLINGUISTICS

1998-1999 Research staff member in the Language and Cognition research group, directed  
by Stephen Levinson, and in the Language Acquisition research group, directed  
by Wolfgang Klein, MPI for Psycholinguistics, Nijmegen, The Netherlands.  
Participated in ongoing cross-linguistic research projects on spatial reference,  
argument structure, and gesture, contributing own field data from research on  
Nicaraguan Sign Language.

UNIVERSITY OF ROCHESTER

1995-1998 Postdoctoral Fellow with Elissa Newport and Ted Supalla, Center for the  
Sciences of Language, Department of Brain and Cognitive Sciences.  
Researched sign language acquisition and structure, in the context of language  
acquisition and creolization. Investigated the syntactic and morphological  
changes in the first two generations of Nicaraguan Sign Language, and  
grammatical structure in Nicaraguan adult homesign systems.

1997-1998 Instructor, Department of Brain and Cognitive Sciences.  
Taught *Laboratory Methods in Development and Learning* and *Language Acquisition*  
courses at the undergraduate level.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

1990-1995 Ph.D. Student, Department of Brain and Cognitive Sciences.  
Advisor: Steven Pinker  
Committee members: Susan Carey, Ken Hale, Judy Kegl, and Kenneth Wexler  
Studied psycholinguistics, language acquisition, and cognitive development.  
Wrote dissertation on the emergence of Nicaraguan Sign Language.

SWARTHMORE COLLEGE

1989-1990 Research Assistant with Judy Kegl, Program in Linguistics.  
Studied early language structures appearing in an original sign language  
emerging among deaf children in Nicaragua. Included three months of field  
work in Managua, Nicaragua.

## HARVARD UNIVERSITY

- 1986-1989      Laboratory Manager for Sandra Waxman, Department of Psychology. Coordinated research projects on children's conceptual and linguistic development. Assisted in experimental design, tested children in categorization and naming tasks. Conducted data analyses, supervised undergraduate assistants preparing stimuli and coding child responses.
- 1987-1989      Laboratory Manager for Peter C. Gordon, Department of Psychology. Researched the cognitive processes underlying speech recognition, particularly the effect of coarse-grained speech features. Prepared artificial and natural speech stimuli, analyzed language samples, supervised subject testing, performed statistical analyses.
- 1986-1987      Laboratory Manager for Kathleen McCartney, Department of Psychology. Collaborated in a longitudinal study on the bi-directionality of effects in language acquisition. Developed coding system for mother-child discourse, supervised undergraduate assistants coding discourse, conducted data analyses.

## WELLESLEY COLLEGE

- 1986              Research Assistant with Virginia V. Valian, Department of Psychology. Researched the effect of negative evidence in language acquisition. Assisted in the development of a coding system for grammaticality and role of utterances, prepared stimuli for experiment on semantic roles and agency.

## F. Academic and Professional Honors

### Professional Honors

- 2014-2015      Mary I. Bunting Fellow, Radcliffe Institute for Advanced Study  
2013              Fellow, Association for Psychological Science (APS)  
2011-2013      Tow Professorship for Distinguished Scholars and Practitioners, Barnard College  
2000              *Frontiers of Science* Fellow, National Academies of Science and Engineering (NAS)  
1994-1995      Spencer Foundation Dissertation Fellowship  
1994              American Association of University Women American Fellowship (declined)

### Teaching and Mentoring Awards

- 2002, 2005      Barnard Seniors of Color, Recognition of Faculty who made a Difference  
2002              NY Higher Education Opportunities Program (HEOP), Faculty Recognition  
1993              Angus MacDonald Award for Excellence in Teaching, MIT

## G. Current Membership in Professional Societies

American Association for the Advancement of Science (AAAS)  
American Psychological Association (APA)  
American Association of University Women (AAUW)  
American Educational Research Association (AERA)  
Association for Psychological Science (APS)  
International Association for the Study of Child Language (IASCL)  
International Society for Gesture Studies (ISGS)  
Jean Piaget Society (JPS)  
Linguistic Society of America (LSA)

Sign Language Linguistics Society (SLLS)  
Society for Language Development (SLD)

## H. Teaching and Supervising

### Courses taught

#### *Developmental Psychology*

Barnard College, Department of Psychology  
Spring 2016, Fall 2013, Fall 2011, Fall 2010, Spring 2010, Spring 2007, Spring 2006, Spring 2005, Spring 2003, Spring 2002, Spring 2001, Spring 2000

#### *Developmental Psychology Laboratory*

Barnard College, Department of Psychology  
Spring 2016, Fall 2013, Fall 2011, Fall 2010, Spring 2010, Spring 2007, Spring 2006, Spring 2005, Spring 2003, Spring 2002, Spring 2001, Spring 2000

#### *Science and Scientists*

Barnard College, Department of Psychology  
Spring 2014, Fall 2013, Spring 2012, Fall 2011

#### *Language Development*

Barnard College, Department of Psychology  
Fall 2004, Fall 2001, Fall 2000

#### *Graduate Seminar in Language Development*

Columbia University, Department of Psychology  
Fall 2015, Fall 2002

#### *Introduction to Psychology*

Barnard College, Department of Psychology  
Fall 2004, Fall 2001, Fall 2000, Fall 1999

#### *Language Acquisition*

University of Rochester, Department of Brain and Cognitive Sciences  
Spring 1998

#### *Laboratory in Development and Learning*

University of Rochester, Department of Brain and Cognitive Sciences  
Fall 1997

### **Independent Study and Thesis Supervision**

- 2015-2016 Caroline Zola (BC '17), research assistantship in linguistics (spring)  
Charlotte Quincoses (BC '19), research assistantship in psychology (year)
- 2014-2015 Caroline Zola (BC '17), research assistantship in linguistics (year, summer)
- 2013-2014 Marilou Fonti (BC '14), independent study in psychology (spring)  
Caroline Zola (BC '17), research assistantship in psychology (year)  
Brendan Villalobos (CC '15), research assistantship in psychology (fall)  
Natalie Delgado (TC MA student, Deaf Ed), research assistantship (fall)
- 2012-2013 Krizia Lopez (CC '13), research assistantship in psychology (year)  
Jessica Nadel (BC '13), thesis in psychology (year)  
Elizabeth Pettiti (BC '13), thesis in linguistics (year)  
Karina Schultz-Blohm (BC '13), thesis in linguistics (year)
- 2011-2012 Jill Ashenbrenner (CC '13), research assistantship in psychology (fall)  
Krizia Lopez (CC '13), research assistantship in psychology (year)  
Jessica Nadel (BC '13), research assistantship in psychology (year)  
Geoffrey Zoehfeld (SEAS '12), research assistantship in psychology (fall)  
Fareed Abolhassani (RIT '12), research assistantship in psychology (summer)  
Catherine Jaramillo (Wellesley '12), research assistantship (summer)  
Andrea Takahesu Taboori (Wellesley '12), research assistantship (summer)
- 2010-2011 Jill Ashenbrenner (CC '13), research assistantship in psychology (year)  
Blair Sinsimer (BC '11), research assistantship in psychology (year)  
Krizia Lopez (CC '13), research assistantship in psychology (fall)  
Krizia Lopez (CC '13), independent study in psychology (spring)  
Sheeva Abolhassani (TC MS SLP '11), research assistantship (year)  
Jessica Nadel (BC '13), research assistantship in psychology (summer)
- 2009-2010 Jill Ashenbrenner (CC '13), research assistantship in psychology (year)  
Krizia Lopez (CC '13), research assistantship in psychology (year)  
Blair Sinsimer (BC '11), research assistantship in psychology (fall)  
Sheeva Abolhassani (TC MS SLP '11), research assistantship (spring, summer)  
Annemarie Kocab (Wellesley '10) research assistantship (summer)
- 2008-2009 [sabbatical]
- 2007-2008 Sarah Maria Hasbun, BC '08, combined major thesis supervision (Linguistics/Psychology) (year)  
[family leave]
- 2006-2007 Tamar G. Baer, independent study in psychology (fall)  
Elizabeth Emory Davis, BC '07, combined major thesis supervision (Linguistics/ Anthropology) (year)  
Sarah Maria Hasbun, BC '08, combined major research project (Linguistics/ Psychology) (year)  
Sarah Maria Hasbun, BC '08, Tow Thesis Fellowship, Mellon-Mays Fellowship (summer)
- 2005-2006 Tamar G. Baer, independent study in psychology (spring)  
Jenny Pick Sultan, BC '06, independent study in psychology (fall)  
Elizabeth Emory Davis, BC '07, combined major research project (Linguistics/ Anthropology) (spring, summer)  
Sarah Maria Hasbun, BC '08, combined major research project (Linguistics/ Psychology) (spring, summer)

- 2004-2005 Jenny Pick, BC '06, independent study in Psychology (spring)
- 2003-2004 Alina Engelman, Brown University '04, outside thesis advisor (year)
- 2002-2003 Emily Brodie, BC '03, independent study in Psychology (fall)  
 Lisa Kessler, BC '03, independent study in Psychology (fall)  
 Sarah Littman, BC '03, thesis in Psychology (year)  
 Sarah Housman, BC'03, Centennial Scholar project mentor (year)  
 Marisol Santos, NYU '04, New York Intercollegiate Partnership Program mentor (summer)
- 2001-2002 Sarah Littman, BC '03, Howard Hughes Fellowship project mentor (year)  
 Dalya Ruch, BC '02, thesis in Linguistics (year)  
 Danae Kesel, St. Lawrence '02, New York Sciences Education Program (NYSEP) intern (summer)  
 Sarah Housman, BC'03, Centennial Scholar project mentor (spring)  
 Elizabeth Housman, BC '03, independent study in Psychology (fall)  
 Sarah Housman, BC '03, independent study in Psychology (fall)  
 Shira Katseff, SEAS '04 , independent study in Psychology (fall)  
 Marisol Santos, NYU '04, New York Intercollegiate Partnership Program mentor (summer)  
 Cynthia Yang, BC '02, independent study in Psychology (fall)
- 2000-2001 Joselyn Chavez, BC '02, Higher Education Opportunities Program (HEOP) student intern (year)  
 Elisabeth Pilcher, BC '02, New York Sciences Education Program (NYSEP) intern (summer)  
 Penny Shima, BC '01, independent study in Psychology (spring)  
 Penny Shima, BC '01, independent study in Psychology (fall)
- 1999-2000 Neely Harburger, BC '00, independent study in Psychology (spring)  
 Neely Harburger, BC '00, independent study in Psychology (fall)

**Graduate Dissertation Committee Member**

- 2012 Amanda Howerton Fox, Teachers College, Columbia University
- 2008 Joshua I. Davis, Department of Psychology, Columbia University
- 2006 Gina Feliciano, Teachers College, Columbia University
- 2005 Yi Hui Chen, Teachers College, Columbia University
- 2004 Jennie Pyers, Department of Psychology, University of California, Berkeley
- 2002 Kimberly Stender, Teachers College, Columbia University
- 2002 Georgene Feldman, Teachers College, Columbia University
- 2001 Kay Kitzen, Teachers College, Columbia University

**I. Publications and Creative Work**

**Unpublished Manuscripts**

- Kocab, A., Senghas, A., Snedeker, J. (Revision under review). The emergence of temporal language in Nicaraguan Sign Language.
- Kocab, A. A. Senghas, & J. E. Pyers (In prep). From gesture to language: The emergence of nonmanual-markers in Nicaraguan Sign Language.
- Martin, A., A. Senghas, and C. Padden. (In prep). The gestural origins of nouns in Nicaraguan Homesigns.

### Peer-reviewed Journals

- Brentari, D., M. Coppola, A. Senghas, and P. W. Cho. (In press). Handshape complexity as a precursor to phonology: Evidence from acquisition and conventionalization in mature and emerging sign languages. *Language Acquisition*.
- Rissman L., Horton L., Flaherty M., Coppola M., Senghas A., Brentari D. and Goldin-Meadow S. (2016). Strategies In Gesture And Sign For Demoting An Agent: Effects Of Language Community And Input. In S.G. Roberts, C. Cuskley, L. McCrohon, L. Barceló-Coblijn, O. Feher & T. Verhoef (eds.) *The Evolution of Language: Proceedings of the 11th International Conference (EVOLANG11)*. <http://evolang.org/neworleans/papers/158.html>
- Kocab, A., J. E. Pyers, and A. Senghas. (2015). Referential shift in Nicaraguan Sign Language: A transition from lexical to spatial devices. *Frontiers in Psychology*, 5:1540. doi: 10.3389/fpsyg.2014.01540
- Goldin-Meadow, S., D. Brentari, M. Coppola, L. Horton, and A. Senghas. (2014). Watching language grow in the manual modality: Nominals, predicates, and handshapes. *Cognition*. doi: 10.1016/j.cognition.2014.11.029
- Rabagliati, H., A. Senghas, S. Johnson, and G. F. Marcus (2012). Infant rule learning: Advantage language, or advantage speech? *Public Library of Science PLoS ONE* 7(7): e40517. doi:10.1371/journal.pone.0040517
- Flaherty, M. and A. Senghas (2011). Numerosity and Number Signs in Deaf Nicaraguan Adults. *Cognition*, 121, 427-436.
- Senghas, A. (2010). The emergence of two functions for spatial devices in Nicaraguan Sign Language. *Human Development*, 53, 287-302.
- Pyers, J. E., A. Shusterman, A. Senghas, E. Spelke, and K. Emmorey (2010). Spatial language supports spatial cognition: Evidence from learners of an emerging sign language. *Proceedings of the National Academy of Sciences (PNAS)* 107:27 (12116-12120).
- Davis, J. I., A. Senghas, F. Brandt, and K. N. Ochsner (2010). The effects of BOTOX injections on emotional experience. *Emotion*. 10:3, 433-440.
- Davis, J.I., A. Senghas, and K.N. Ochsner (2009). How does facial feedback modulate emotional experience? *Journal of Research in Personality*, 43, 822-829.
- Pyers, J. and A. Senghas (2009). Language promotes false-belief understanding: Evidence from a new sign language. *Psychological Science*, 20:7, 805-812.
- Senghas, A. (2005). Language emergence: Clues from a new Bedouin sign language. *Current Biology*, 15:12, 463-465.
- Senghas, A., S. Kita, and A. Özyürek (2005). Linguaggio e evoluzione: I bambini sordi del Nicaragua mostrano come nasce una lingua. *Darwin*, 2:8, 88-96. [Includes Italian translation of Senghas et al. 2004, with additional text and graphics].
- Senghas, A., A. Özyürek, and S. Kita (2005). Language emergence *in vitro* or *in vivo*? Response to comment on "Children creating core properties of language: Evidence from an emerging sign language in Nicaragua" *Science*, 309: 5731, 56.

- Senghas, A., S. Kita, and A. Özyürek (2004). Children creating core properties of language: evidence from an emerging sign language in Nicaragua. *Science*, **305**: 5691, 1779-1782.
- Senghas, A. (2003). Intergenerational influence and ontogenetic development in the emergence of spatial grammar in Nicaraguan Sign Language. *Cognitive Development*, **18**, 511-531.
- Senghas, A. (2003). Review of "Language, Cognition, and the Brain: Insights from Sign Language Research" by Karen Emmorey. *Sign Language and Linguistics*, **6:1**, 105-110.
- Saffran, J. R., A. Senghas, and J. C. Trueswell (2001). The acquisition of language by children. *Proceedings of the National Academy of Sciences (PNAS)*, **98: 23**, 12874-12875. [authors listed alphabetically]
- Senghas, A. (2001). Spatial and temporal coding of Nicaraguan Sign Language in MediaTagger: Documenting three dimensions with a two-dimensional tool. *Sign Language and Linguistics*, **4: 1/2**, 229-240. [update and revision of Senghas, 1999]
- Senghas, A., and M. Coppola (2001). Children creating language: How Nicaraguan Sign Language acquired a spatial grammar. *Psychological Science*, **12, 4**: 323-328.
- Snyder, W., A. Senghas, and K. Inman (2001). Agreement morphology and the acquisition of noun-drop in Spanish. *Language Acquisition*, **9 (2)**: 157-173.
- Waxman, S. R., A. Senghas, and S. Benveniste (1997). A cross-linguistic examination of the noun-category bias: Its existence and specification in French- and Spanish-speaking preschool-aged children. *Cognitive Psychology*, **32**: 183-218.
- Senghas, A. (1995). Conventionalization in the first generation: a community acquires a language. *USD Journal of Contemporary Legal Issues*, **6**, Spring, 1995.
- Senghas, A. (1994). Nicaragua's lessons for language acquisition. *Signpost: The Journal of the International Sign Linguistics Association*, **7:1**, spring 1994.
- Waxman, S. R., and A. Senghas (1992). Relations among word meanings in early lexical development. *Developmental Psychology*, **28**: 862-873.

#### **Book Chapters, Edited Volumes, and Reviewed Conference Proceedings**

- Senghas, A., A. Özyürek, and S. Goldin-Meadow (2013). Homesign as a way-station between co-speech gesture and sign language: The evolution of segmentation and sequencing. In R. Botha & M. Everaert (Eds.), *The Evolutionary Origins of Language*, of the series *Studies on the Evolution of Language*. Oxford University Press (62-76).
- Coppola, M., D. Gagne, and A. Senghas. (2013). WHO chased the bird? Narrative cohesion in an emerging language. Linguistics Society of America Annual Meeting Extended Abstract (ExtAbs). (<http://www.linguisticsociety.org/files/Coppola%20et%20al%20Extended%20Abstract%202013.pdf>)
- Martin, A., Senghas, A., and Pyers, J. (2013). Age of Acquisition Effects on Mental Rotation: Evidence from Nicaraguan Sign Language. In S. Baiz, N. Goldman, and R. Hawkes (Eds.), *BUCLD 37: Proceedings of the 37<sup>th</sup> Annual Boston University Conference on Language Development*. Boston: Cascadilla Press (241-250).

- Senghas, A., and M. Coppola (2011). Getting to the point: How a simple gesture became a linguistic element in Nicaraguan signing. In D.J. Napoli and G. Mathur (Eds.), *Deaf Around the World: The Impact of Language*. New York: Oxford University Press (127-143).
- Coppola, M., and A. Senghas (2010). Deixis in an emerging sign language. In D. Brentari (Ed.), *Sign Languages: A Cambridge Language Survey*. Cambridge: Cambridge University Press (543-569).
- Senghas, A., A. Özyürek, and S. Goldin-Meadow (2010). The evolution of segmentation and sequencing: Evidence from homesign and Nicaraguan Sign Language. In A. Smith, M. Schouwstra, B. de Boer, and K. Smith (Eds.), *The Evolution of Language: Proceedings of the Eighth International Conference*. Singapore: World Scientific (279-288).
- Coppola, M., and A. Senghas (2010). The path from point A to Point B: How gestures became language in Nicaraguan signing. In A. Smith, M. Schouwstra, B. de Boer, and K. Smith (Eds.), *The Evolution of Language: Proceedings of the Eighth International Conference*. Singapore: World Scientific (385-386).
- Senghas, A. (2010). Reinventing the word. In B. Malt and P. Wolff (Eds.), *Words and the Mind: How Words Capture Human Experience*. Oxford University Press (16-28).
- Senghas, A. (2010). Sign Language. *World Book Encyclopedia*.
- Senghas, A., S. Kita, and A. Özyürek (2008). Children creating core properties of language: evidence from an emerging sign language in Nicaragua. In K. Lindgren, D. DeLuca, B. Reynolds, and D. J. Napoli (Eds.), *Signs and Voices*. Washington DC: Gallaudet University Press. [Reprint of Senghas et al., 2004]
- Pyers, J. E., and A. Senghas (2007). Reported action in Nicaraguan and American Sign Languages: Emerging versus established systems. In P. Perniss, R. Pfau, and M. Steinbach, (Eds.), *Visible variation: Comparative studies on sign language structure*. Berlin: Mouton de Gruyter.
- Senghas, A., D. Roman, and S. Mavillapalli (2006). *Simplemente Único: Lo que la Comunidad Sorda de Nicaragua le Puede Enseñar al Mundo* [Simply Unique: What the Nicaraguan Deaf Community Can Teach the World]. (Eds.) London/Managua: Leonard Cheshire International.
- Senghas, A. (2006). ¿De dónde surgió el Idioma de Señas de Nicaragua? [Where did Nicaraguan Sign Language come from?] In A. Senghas, D. Roman, and S. Mavillapalli (Eds.), *Simplemente Único: Lo que la Comunidad Sorda de Nicaragua le Puede Enseñar al Mundo*. London/Managua: Leonard Cheshire International (24-29).
- Senghas, R. J., A. Senghas, and J. E. Pyers (2005). The emergence of Nicaraguan Sign Language: Questions of development, acquisition, and evolution. In J. Langer, C. Milbrath, & S. T. Parker (Eds.), *Biology and Knowledge revisited: From neurogenesis to psychogenesis*. Mahwah, NJ: Lawrence Erlbaum Associates (287-306).
- Senghas, A., A. Özyürek, and S. Kita (2002). Encoding motion events in an emerging sign language: From Nicaraguan gestures to Nicaraguan signs. In A. Baker, B. van den Bogaerde & O. Crasborn (Eds.) *Cross-linguistic perspectives in sign language research. Selected papers from TISLR 2000*. Hamburg: Signum Press.

- Senghas, A. (2000). The development of early spatial morphology in Nicaraguan Sign Language. In S. C. Howell, S. A. Fish, and T. Keith-Lucas, (Eds.), *BUCLD 24: Proceedings of the 24th Annual Boston University Conference on Language Development*. Boston: Cascadilla Press, 696-707.
- Senghas, A. (1999). Spatial and temporal coding of Nicaraguan Sign Language in MediaTagger: Documenting three dimensions with a two-dimensional tool. In E. Pizzuto and B. Bergman, (Eds.), *Intersign: Sign Linguistics and Data Exchange, Section on Morphosyntax: Text Corpora and Tagging*. European Science Foundation Scientific Network.
- Kegl, J., A. Senghas, and M. Coppola (1999). Creation through contact: Sign language emergence and sign language change in Nicaragua. In M. DeGraff, (Ed.), *Language Creation and Language Change: Creolization, Diachrony, and Development*. Cambridge: MIT Press, 179-237.
- Senghas, A., M. Coppola, E. L. Newport, and T. Supalla (1997). Argument structure in Nicaraguan Sign Language: The emergence of grammatical devices. In E. Hughes, M. Hughes, and A. Greenhill (Eds.), *BUCLD 21: Proceedings of the 21<sup>st</sup> Annual Boston University Conference on Language Development*. Boston: Cascadilla Press, 550-561.
- Snyder, W., and A. Senghas (1997). Agreement morphology and the acquisition of noun-drop in Spanish. In E. Hughes, M. Hughes, and A. Greenhill (Eds.), *BUCLD 21: Proceedings of the 21<sup>st</sup> Annual Boston University Conference on Language Development*. Boston: Cascadilla Press, 584-591.
- Senghas, A. (1995). The development of Nicaraguan Sign Language via the language acquisition process. In D. MacLaughlin & S. McEwen (Eds.), *BUCLD 19: Proceedings of the 19<sup>th</sup> Annual Boston University Conference on Language Development*. Boston: Cascadilla Press, 543-552.
- Kegl, J., and A. Senghas (1993). The birth of a language: The case of Idioma de Signos Nicaragüense. In Ferreira-Brito, L. (Ed.), *Proceedings of the II Congresso Latino-Americano de Bilingüismo para Surdos: Língua Oral - Língua de Sinais*, UFRJ Faculdade de Letras, Rio de Janeiro, Brazil, September, 1993.

### **Unpublished Report**

- Senghas, A. (1995). Children's contribution to the birth of Nicaraguan Sign Language. Ph.D. dissertation, Massachusetts Institute of Technology. Distributed by MIT Working Papers in Linguistics.

### **Conference Posters**

- Pyers, J., A. Senghas, S. Goldin-Meadow, and D. Gentner. Tracing the emergence of spatial categories in Nicaraguan Sign Language. Poster presented at the The Twelfth International Conference on Theoretical Issues in Sign Language Research (TISLR12), Melbourne, Australia, January 4-7, 2016.
- Pyers, J., A. Senghas, E. Plançon, C. Zola, N. Reynoso (2016). The differential role of iconicity in the creation and maintenance of an emerging sign language lexicon. Poster presented at the Annual meeting of the Linguistic Society of America (LSA), Washington DC, January 7-10, 2016.

- Gagne, D., A. Senghas, and M. Coppola (2015). A language model is not sufficient to promote conventionalization of space in an emerging sign language. Poster presented at the 40th Annual Boston University Conference on Language Development (BUCLD40), Boston, MA, November 13-15, 2015.
- Pyers, J., D. Gagne, A. Senghas, and M. Coppola (2014). A novel, reliable method for investigating Theory of Mind in low-verbal populations: An experiential false-belief task. Poster presented at the 39th Annual Boston University Conference on Language Development (BUCLD39), Boston, MA, November 7-9, 2014.
- Flaherty, M., S. Goldin-Meadow, A. Senghas, M. Coppola, and L. Gleitman (2013). Animacy and verb classes in Nicaraguan Sign Language. Poster presented at the Thirty-eighth Annual Boston University Conference on Language Development (BUCLD38), Boston, MA, November 1-3, 2013.
- Kocab, A., J. Pyers, and A. Senghas (2013). From gesture to language: Emergence of nonmanual-markers in Nicaraguan Sign Language. Poster presented at the Eleventh International Conference on Theoretical Issues in Sign Language Research (TISLR11), London, UK. July 10-13, 2013.
- Flaherty, M., S. Goldin-Meadow, A. Senghas and M. Coppola (2013). Growing a spatial grammar: The emergence of verb agreement in Nicaraguan Sign Language. Poster presented at the Eleventh International Conference on Theoretical Issues in Sign Language Research (TISLR11), London, UK. July 10-13, 2013.
- Martin, A., and A. Senghas (2013). Age of acquisition effects on mental rotation skills in Nicaraguan signers. Poster presented at the Annual Meeting of the Society for Research on Child Development (SRCD), Seattle, WA, April 2013.
- Gagne, D., M. Coppola and A. Senghas (2013). WHO chased the bird? Narrative cohesion emerges with language complexity. Poster presented at the Annual Meeting of the Society for Research on Child Development (SRCD), Seattle, WA, April 2013.
- Flaherty, M., S. Goldin-Meadow, A. Senghas, and M. Coppola. (2013). Watching Minds Shape Language: The Emergence of Spatial Verb Agreement in Nicaraguan Sign Language. Poster presented at the Budapest CEU Conference on Cognitive Development (BCCCD13). January 10-12, 2013.
- Gagne, D., M. Coppola and A. Senghas (2012). WHO chased the bird? Narrative cohesion in an emerging language. Poster presented at the University of Connecticut Language Fest, Storrs, CT, April 2012.
- Kocab, A., J. E. Pyers, and A. Senghas (2011). The emergence of grammatical markers for questions in Nicaraguan Sign Language: Child or adult driven? Poster presented at the Annual Meeting of the Society for Research on Child Development (SRCD), Montreal, Quebec, March 2011.
- Pyers, J. E., A. Senghas, and A. Kocab (2009). The emergence of referential shift in a new sign language in Nicaragua: The role of cognition in the development of grammar. Poster presented at the Annual Meeting of the Society for Research on Child Development (SRCD), Denver, CO, April 2009.
- Pyers, J. E., A. Shusterman, A. Senghas, K. Emmorey, and L. Spelke (2007). Does spatial language guide spatial representation? Evidence from Nicaraguan Sign Language. Poster presented at the Annual Meeting of the Society for Research on Child Development (SRCD), Boston, MA, March 2007.

- Davis, J. I., A. Senghas, and K. Ochsner (2007). What role do facial expressions play in emotional experience? Poster presented at the Annual Meeting of the Society for Social and Personality Psychology, Memphis, TN, January 2007.
- Rabagliati, H., K. J. Fernandes, A. Senghas, S. P. Johnson, and G. F. Marcus (2006). Is rule-learning specific to language or speech? Poster presented at the Thirty-first Annual Boston University Conference on Language Development (BUCLD31), Boston, MA, November 2006.
- Pyers, J. E. and A. Senghas (2004). Perceiving, knowing, and “seeing”: The emergence of mental-state verbs in Nicaraguan Sign Language. Poster presented at the Eighth International Conference on Theoretical Issues in Sign Language Research (TISLR8), Barcelona, Spain, September 2004.
- Senghas, A. (2000). Differences between first- and second-cohort Nicaraguan signers in communicating location and orientation. Poster presented at the Seventh International Conference on Theoretical Issues in Sign Language Research (TISLR7), Universiteit van Amsterdam, Amsterdam, the Netherlands, July 2000.
- Senghas, A. (1995). The birth of Nicaraguan Sign Language: The emergence of verb inflection. Poster presented at the Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA, April 1995.
- Senghas, A., J. Kegl, R. J. Senghas, and M. Coppola (1994). Sign language emergence and sign language change: children's contribution to the birth of a language. Poster presented at the Annual Meeting for the Linguistic Society of America (LSA), Boston, MA, January 1994.
- Senghas, A., J. Kegl, and R. J. Senghas (1993). The role of language acquisition processes in the emergence of a new sign language. Poster presented at Designs of Nature: The Sixth Annual Graduate and Postdoctoral Mini-symposium, Rutgers University, Newark, NJ, November 1993.

#### **Keynote Addresses and Invited Lectures**

- Senghas, A. (2015). Rethinking recapitulation: Sources of structure in Nicaraguan Sign Language. CARTA Human Origins Symposium: How Language Evolves, University of California, San Diego, and Salk Institute for Biological Studies, La Jolla California, February 20-21, 2015.  
[\[http://www.ucsd.tv/search-details.aspx?showID=29393\]](http://www.ucsd.tv/search-details.aspx?showID=29393)
- Senghas, A. (2014). Links between language emergence and language acquisition: Development at two time scales. Opening Plenary Address at the 13th Congress for the International Association for the Study of Child Language (IASCL), Amsterdam, July 14-18, 2014.
- Senghas, A. (2014) Recapitulation? Links between language acquisition, emergence, and evolution. Plenary address at the 10th International Conference on the Evolution of Language (EvolangX), Vienna, April 14-17, 2014
- Senghas, A. (2012). Evolution of a new language. Banquet Speaker, Annual Meeting of the Pavlovian Society, Jersey City, NJ, September 20-23, 2012.
- Senghas, A. (2010). From gestures to grammar – How learners created Nicaraguan Sign Language. Keynote address. Delivered at the Child Language Seminar, City University, London, June 25, 2010.

- Senghas, A. (2009). Nicaraguan Sign Language: A new fossil record of age-of-acquisition effects. Keynote address at the symposium Multiple Perspectives on the Critical Period for Language, Department of Linguistics, Ohio State University, Columbus, OH, June 5, 2009.
- Senghas, A. (2004) ¿Por qué estudiar lenguas de señas? Lo que nos pueden enseñar. Inaugural lecture at the opening of the Masters Program in Sign Language at the University of Seville, Spain, October 4, 2004.
- Senghas, A. (2001). From symbols to syntax: the creation of a new language by deaf children. Invited lecture at the Annual Meeting of the National Academy of Sciences, Washington, DC., April, 2001.
- Senghas, A. (2000). From symbols to syntax: the creation of a new language by deaf children. Invited lecture at the Twelfth Annual Frontiers of Science Symposium, the National Academy of Sciences, Irvine, CA, November, 2000.

### **Presentations at Conferences and Meetings**

- Pyers, J., D. Gagne, A. Senghas, and M. Coppola (2016). Leveraging first-hand experience to assess theory of mind development in Deaf populations with limited sign language ability. Delivered at the Twelfth International Conference on Theoretical Issues in Sign Language Research (TISLR12), LaTrobe University, Melbourne, Australia, January 4-7, 2016.
- Pyers, J., A. Senghas, S. Goldin-Meadow, and D. Gentner (2015). The emergence of spatial language and spatial categorization in Nicaraguan Sign Language. Delivered at the Fortieth Annual Boston University Conference on Language Development (BUCLD40), Boston, MA, November 13-15, 2015.
- A. Martin, M. Flaherty, A. Senghas, and J. Pyers (2015). The emergence of three-dimensional signing and mental rotation skill in deaf Nicaraguan signers. Plenary talk delivered (by A.M.) at the International Conference on Sign Language Acquisition (ICSLA), Amsterdam, the Netherlands, July 1-4, 2015.
- Senghas, A. (2015). The role of vertical social contact in language emergence: Evidence from Nicaraguan Sign Language. Workshop on Emerging Sign Languages and the Big Picture, Center for Cognitive Studies, Tufts University, May 8-9, 2015.
- Flaherty, M., A. Senghas, A., M. Coppola, and S. Goldin-Meadow (2014). The Emergence of Redundancy in a New Language. Paper presented at the Eleventh High Desert Linguistics Society Conference, Albuquerque, NM. November 2014.
- Senghas, A. (2014). The emergence of spatial differentiation and indexing in Nicaraguan Sign Language. Workshop tutorial presented at New Frontiers: Formal Semantics Beyond Spoken Language, New York University, May 29, 2014.
- Senghas, A. (2013). How many, how much, how fast? The impact of social factors on the emergence of Nicaraguan Sign Language. Workshop presentation at the Minerva-Gentner Symposium on Emergent Languages and Cultural Evolution, Nijmegen, the Netherlands, June 20-23, 2013.

- Kocab, A., J. Pyers, and A. Senghas (2012). Facial gestures as a source of sign language nonmanual markers: Evidence (and counter-evidence) from Nicaraguan Sign Language. Delivered at the Fifth Congress of the International Society for Gesture Studies (ISGS5) Lund, Sweden, July 24-27, 2012.
- Martin, A., A. Senghas and C. Padden (2012). Gestural origins of nouns in sign languages. Delivered at the Fifth Congress of the International Society for Gesture Studies (ISGS5) Lund, Sweden, July 24-27, 2012.
- Coppola, M., D. Gagne, and A. Senghas. (2013). WHO chased the bird? Narrative cohesion in an emerging language. Linguistics Society of America Annual Meeting, Boston, MA, January 3-6, 2013.
- Martin, A., Senghas, A., and Pyers, J. (2012). Age of Acquisition Effects on Mental Rotation: Evidence from Nicaraguan Sign Language. Delivered at the Thirty-seventh Annual Boston University Conference on Language Development (BUCLD37), Boston, MA, November 2-4, 2012.
- Gagne, D., M. Coppola and A. Senghas (2012). WHO chased the bird? Narrative cohesion in an emerging language. Delivered at the Thirty-seventh Annual Boston University Conference on Language Development (BUCLD37), Boston, MA, November 2-4, 2012.
- Brentari, D., M. Coppola, and A. Senghas (2011). Handshape complexity in sign languages: Its relevance for historical development, typology, and acquisition. Delivered at the meeting of Formal and Experimental Advances in Sign Language Theory (FEAST), Venice, Italy, June 22, 2011.
- Kocab, A., A. Senghas, and J. Pyers (2010). The emergence of referential shift in a new sign language. Delivered at the Tenth International Conference on Theoretical Issues in Sign Language Research (TISLR10), Purdue University, West Lafayette, IN, October 2, 2010.
- Senghas, A. (2010). The emergence and evolution of Nicaraguan number signs. Delivered at the Nijmegen Gesture Centre Spring Workshop: Language Evolution in Our Hand, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, April 19, 2010.
- Senghas, A., A. Özyürek, and S. Goldin-Meadow (2010). The evolution of segmentation and sequencing: Evidence from homesign and Nicaraguan Sign Language. Invited lecture, Eighth International Conference on the Evolution of Language (Evolang8), Utrecht, the Netherlands, April 16, 2010.
- Coppola, M., and A. Senghas (2010). The path from point A to Point B: How gestures became language in Nicaraguan signing. Delivered (by M.C.) at the Eighth International Conference on the Evolution of Language (Evolang8), Utrecht, the Netherlands, April 16, 2010.
- Senghas, A. (2009). The Emergence and Evolution of Nicaraguan Sign Language. Delivered in the symposium Languages without Ancestors, at the Annual Meeting of the American Association for the Advancement of Science (AAAS), Chicago, IL, February 2009.
- Senghas, A., and S. Katseff (2008). Competing forces behind the form of Nicaraguan Sign Language number signs. Delivered at the SignTyp Conference, University of Connecticut, Storrs, CT, June 26-28, 2008.

- Senghas, A., and M. Coppola (2008). Getting to the point: The development of a linguistic device in Nicaraguan signing. Delivered at the Around the Deaf World Conference, Swarthmore College, Swarthmore, PA, February 29-March 1, 2008.
- Flaherty, M., and A. Senghas (2007). Numerosity and number signs in Deaf Nicaraguan adults. Delivered at the Thirty-second Annual Boston University Conference on Language Development (BUCLD32), Boston, MA, November, 2007.
- Shusterman, A., J. E. Pyers, A. Senghas, K. Emmorey, and E. Spelke (2007). Does spatial language guide spatial representation? Evidence from Nicaraguan Sign Language. Delivered (by A. Shusterman) at the Fifth Biennial Meeting of the Cognitive Development Society (CDS V), Santa Fe, NM, October 26-27, 2007.
- Davis, J. I., A. Senghas, and K. Ochsner (2007). Emotion regulation through changes to facial expression. Delivered (by J. D.) at the Annual Meeting of the American Psychosomatic Society, Budapest, Hungary, March 7-10, 2007.
- Senghas, A. (2007). The emergence of structure in Nicaraguan Sign Language: Carving up space and time. Delivered at the Annual Meeting of the Lake Ontario Visionary Establishment (LOVE), Niagara Falls, Ontario, Canada, February 8-9, 2007.
- Senghas, A. (2006). Identifying arguments in Nicaraguan Sign Language: The roots of noun-verb agreement. Delivered at the Workshop on Language Emergence, Rockefeller Foundation's Bellagio Study and Conference Center, Bellagio Italy, October 4-9, 2006.
- Senghas, A. (2006). Nicaraguan Sign Language: An introduction to the language, the community, and the data. Delivered at the Workshop on Language Emergence, Rockefeller Foundation's Bellagio Study and Conference Center, Bellagio Italy, October 4-9, 2006.
- Senghas, A. (2005). The roots of verb agreement in Nicaraguan Sign Language. Delivered at the Linguistic Society of America (LSA) Summer Institute Workshop on The Analysis of Verb Agreement in Sign Languages, Harvard University, Cambridge, MA, August 6-7, 2005.
- Senghas, A. (2005). Competing coreference devices in Nicaraguan Sign Language. Delivered at the Congress of the International Association for the Study of Child Language (IASCL), Berlin, Germany, July 2005.
- Katseff, S., and A. Senghas (2004). Effects of acquisition on the Nicaraguan Sign Language number lexicon. Delivered at the Twenty-ninth Annual Boston University Conference on Language Development (BUCLD29), Boston, MA, November, 2004.
- Senghas, A., and S. Littman (2004). Segmentation in the expression of motion events in co-speech gesture, Nicaraguan Sign Language (NSL) and Spanish Sign Language (LSE). Delivered at the Eighth International Conference on Theoretical Issues in Sign Language Research (TISLR8), Barcelona, Spain, September 2004.
- Senghas, A. (2004). Children's role in the emergence of Nicaraguan Sign Language. Delivered in the symposium on Language Birth, at the Annual Meeting of the American Association for the Advancement of Science (AAAS), Seattle, WA, February 2004.

- Senghas, A. (2003). Emerging spatial devices in Nicaraguan Sign Language. Delivered at the Conference on Spatial Language and Spatial Cognition, Johns Hopkins University, Baltimore, MD, September 2003.
- Senghas, A. (2003). The differentiation of grammatical elements in Nicaraguan Sign Language over historical and ontogenetic developmental timelines. Delivered at the Project for Explaining the Origin of Humans, UCSD, October 2003.
- Senghas, A. (2003). From gesture to grammar: how children are creating Nicaraguan Sign Language. Delivered at the Annual Meeting of the Society for Research on Child Development (SRCD), Tampa, FL, April 2003.
- Senghas, A. (2002). From gestures to sign language in the encoding of motion events. Delivered at the International Congress for the Study of Child Language (IASCL), Madison, WI, July 2002.
- Senghas, A. (2002). The emergence of compositional structure in Nicaraguan Sign Language. Delivered at the Evolution of Language Conference, Cambridge, MA, March 2002.
- Senghas, A. (2001). The emergence of grammatical devices for indicating location and orientation in Nicaraguan Sign Language. Delivered at the Twenty-sixth Annual Boston University Conference on Language Development (BUCLD26), November, 2001.
- Senghas, A. (2001). The effect of stages of language acquisition on the development of Nicaraguan Sign Language: How minds mold a language. Delivered in an invited symposium at the Annual Meeting of the Jean Piaget Society, Berkeley, CA, May, 2001.
- Senghas, A., A. Özyürek, and S. Kita (2000). Encoding motion events in an emerging sign language: From Nicaraguan gestures to Nicaraguan signs. Delivered at the Seventh International Conference on Theoretical Issues in Sign Language Research (TISLR7), Universiteit van Amsterdam, Amsterdam, the Netherlands, July, 2000.
- Senghas, A. (2000) Evolution of grammar: The grammaticization of Nicaraguan Sign Language by sequential iterations of native acquisition. Delivered at the Evolution of Language Conference, Paris, France, April 4-6, 2000.
- Senghas, A. (1999). The Development of Early Spatial Morphology in Nicaraguan Sign Language. Delivered at the Twenty-fourth Annual Boston University Conference on Language Development (BUCLD24), November, 1999.
- Senghas, A. (1999). Spatial and temporal coding of Nicaraguan Sign Language in MediaTagger: Documenting three dimensions with a two-dimensional tool. Delivered at the Workshop on Morphosyntax: Text corpora and tagging. Intersign: Sign Linguistics and Data Exchange, European Science Foundation Scientific Network. Certosa di Pontignano, Siena, Italy, March 12-15, 1999.
- Coppola, M., E. L. Newport, T. Supalla, and A. Senghas (1998). Aspect and number marking in family-based gesture systems in Nicaragua. Delivered at the Sixth International Conference on Theoretical Issues in Sign Language Research (TISLR6), Gallaudet University, Washington, DC., November, 1998.

- Coppola, M., A. Senghas, E. L. Newport, and T. Supalla (1997). The emergence of grammar: Evidence from family-based sign systems in Nicaragua. Delivered at the Twenty-second Annual Boston University Conference on Language Development (BUCLD22), Boston, MA.
- Senghas, A., M. Coppola, E. L. Newport, and T. Supalla (1996). Argument structure in Nicaraguan Sign Language: The emergence of grammatical devices. Delivered at the Twenty-first Annual Boston University Conference on Language Development (BUCLD21), November, 1996.
- Snyder, W., and A. Senghas (1996). Agreement morphology and the acquisition of noun-drop in Spanish. Delivered at the Twenty-first Annual Boston University Conference on Language Development (BUCLD21), November, 1996.
- Senghas, A. (1996). The Creolization of Agreement in Nicaraguan Sign Language. Delivered at the Fifth International Conference on Theoretical Issues in Sign Language Research (TISLR5), Université de Québec à Montréal, Montreal, Quebec, September, 1996.
- Senghas, A. (1994). The development of Nicaraguan Sign Language via the language acquisition process. Delivered at the Nineteenth Annual Boston University Conference on Language Development (BUCLD19), November, 1994.
- Senghas, R. J., J. Kegl, and A. Senghas (1994). Creation through contact: The development of a Nicaraguan Deaf community and the nativization of its language. Delivered at the 2nd International Conference on Deaf History, Hamburg, Germany, October, 1994.
- Senghas, A. (1994). Conventionalization in the first generation: A community acquires a language. Delivered at the Conference on the Crisis of Text, Institute for Law and Systems Research, University of San Diego, San Diego, CA, August, 1994.
- Kegl, J., and A. Senghas (1993). The birth of a language: The case of Idioma de Signos Nicaragüense. Delivered at the II Congresso Latino-Americano de Bilingüismo para Surdos: Língua Oral - Língua de Sinais, UFRJ Faculdade de Letras, Rio de Janeiro, Brazil, September, 1993.
- Senghas, A., J. J. Kim, S. Pinker, and C. Collins (1991). Plurals-inside-compounds: Morphological constraints and their implications for acquisition. Delivered at the Sixteenth Annual Boston University Conference on Language Development (BUCLD16), October, 1991.
- Kegl, J., and A. Senghas (1991). Cross-linguistic comparison via the elicitation of controlled narratives: verbal constructions in Nicaraguan Sign Language and American Sign Language. Delivered (by A. S.) at the Annual Meeting of the Linguistic Society of America, Chicago, IL, January, 1991.
- Waxman, S. R., and A. Senghas (1990). Relations among word meanings in early lexical development. Delivered at the International Conference of Infancy Studies (ICIS), Montreal, Quebec, April, 1990.

### **Professional Presentations in Nicaragua and Costa Rica**

- Senghas, A., and A. Kocab (2012). Grammar in Nicaraguan Sign Language: Breaking signs down into parts. Workshop for Deaf Teachers in Deaf Education, Centro de Educación Especial Melania Morales, Managua, Nicaragua, February 23, 2012.

- Senghas, A., and S. Hasbun (2012). Grammar in Nicaraguan Sign Language: Breaking signs down into parts. Workshop for Hearing Teachers in Deaf Education, Centro de Educación Especial Melania Morales, Managua, Nicaragua, February 23, 2012.
- Senghas, A., J. Pyers, M. Flaherty, and A. J. Martin (2011). Workshop for teachers and administrators on research regarding Deaf Nicaraguans and their language. Centro de Educación Especial Melania Morales, Managua, Nicaragua, February 16, 2011.
- Senghas, A. and A. J. Martin. (2010). The development of language and cognition in signers of Nicaraguan Sign Language. Invited lecture, National Association of the Deaf in Costa Rica (ANASCOR), San Jose, Costa Rica, August 10, 2010.
- Senghas, A. (2005). La Pégola Roundtable: An interdisciplinary workshop on research related to deafness in Nicaragua. Conference organizer and facilitator. Granada, Nicaragua, January 3-8, 2005.
- Senghas, A., M. Coppola, A. Engelman, M. Flaherty, J. Kegl, L. Polich, J. Pyers. R. J. Senghas (2005). The Nicaraguan Deaf community and its language: A history for educators, policymakers and public service providers, Centro Cultural Nicaraguense-Norteamericano, Managua, Nicaragua, January 13, 2005.
- Senghas, A., M. Coppola, M. Flaherty, J. Kegl, L. Polich, J. Pyers. R. J. Senghas (2005). The world is watching: History of the Deaf community and Deaf education in Nicaragua, 1946-present. Biblioteca Roberto Incer Barquero del Banco Central, Managua, Nicaragua, January 11, 2005.
- Senghas, A. (1999). The changing structure of Nicaraguan Sign Language: Implications for the education of deaf children. Invited lecture, Ministry of Education, Culture, and Sports (MECD), Managua, Nicaragua, June 1999.
- Senghas, A. (1996). The emergence of Nicaraguan Sign Language in Managua: An overview. Invited lecture, Centro de Investigación y Desarrollo de la Costa Atlántica (Center for Research and Development of the Atlantic Coast), Managua, Nicaragua, January 1996.
- Kegl, J., A. Senghas, and R. J. Senghas (1993). The birth and development of Nicaraguan Sign Language. Invited talk and seminar given to all instructors in Deaf Education at the Ministry of Education, Managua, Nicaragua, August 3-5, 1993.

#### **Invited Colloquia and Speaker Series**

- Senghas, A. (2015). The role of vertical social contact in language emergence: Evidence from Nicaraguan Sign Language. Language and Cognition Speaker Series, Department of Psychology, Harvard University, May 19, 2015.
- Senghas, A. (2014). How a language was born: Cognitive, linguistic, and social factors that led to the emergence of Nicaraguan Sign Language. Radcliffe Institute Fellows' Speaker Series, December 3, 2014.
- Senghas, A. (2014). The emergence of argument structure and verb classes in Nicaraguan Sign Language. Invited lecture, Institute for Research in Cognitive Science (IRCS) Colloquium series, University of Pennsylvania, November 14, 2014.

- Senghas, A. (2014). The emergence of spatial reference in Nicaraguan Sign Language. Invited tutorial, presented at a meeting on Formal Semantics Beyond Spoken Language, organized by the ERC Advanced Grant Project 'New Frontiers of Formal Semantics' and New York University, May 29, 2014.
- Senghas, A. (2014). Music, Language, Learning us. With violinist Jason Kao Hwang, *Entertaining Science* series at the Cornelia Cafe, New York, NY, Feb 2, 2014.
- Senghas, A. (2013). Building a language in three dimensions: Spatial differentiation and mental rotation in Nicaraguan Sign Language. Invited lecture, Psychology colloquium, Hunter College, New York, April 24, 2013.
- Senghas, A. (2012). Language acquisition as selection in the emergence of Nicaraguan Sign Language. CUNY Linguistics Supper, City University of New York, December 11, 2012.
- Senghas, A. (2012). How brains create language. Invited lecture, American Museum of Natural History, October 8, 2012.
- Senghas, A. (2012). Creating Words: The beginnings of Nicaraguan Sign Language. Invited lecture, Mind, Brain, Culture, and Consciousness (MBCC) Working Group, Whitney Humanities Center, Yale University, March 27, 2012.
- Kocab, A., A. J. Martin, and A. Senghas. (2012). Signs around the World. Guest presentation, The Learning Center for the Deaf, Framingham, MA, March 9, 2012.
- Senghas, A., A. Kocab, A. J. Martin (2011). Points and poses, roles and rotations: Newly-emergent elements in Nicaraguan Sign Language. Invited lecture, Deafness Cognition and Language (DCAL) Research Centre, University College London, England, March 16, 2011.
- Senghas, A. (2010). Social scaffolding for language genesis: Why Nicaraguan Sign Language emerged when, where, and how it did. Invited lecture, Workshop on Meaning: Language and Socio-cultural Processes, Institute for Social and Economic Research and Policy, Columbia University, March 31, 2010.
- Senghas, A. and A. J. Martin. (2010). How children are creating Nicaraguan Sign Language. Invited lecture, LaGuardia Community College, February 18, 2010.
- Senghas, A. (2010). A documentary film screening and discussion: *Voices From El Sayed*. Discussant, University Seminar on Disability Studies, and Social Work Film Society, Columbia University, February 4, 2010.
- Senghas, A. (2009) The emergence and evolution of Nicaraguan Sign Language. Invited lecture, Psychology of Language, Department of Psychology, Wellesley College, May 4, 2009.
- Coppola, M. and A. Senghas. (2008). How space becomes language: The evolution of the point in Nicaraguan signing. INS and OUTS of Spatial Language Conference, Spatial Language and Intelligence Center, Chicago, IL.
- Senghas, A. (2008) The acquisition of Nicaraguan Sign Language. Invited lecture, Seminar in Language Acquisition, Department of Psychology, Wellesley College, November 18, 2008.

- Senghas, A. (2007). The impact of successive cohorts of learners on a language. Invited lecture, Department of Linguistics, University of Southern Maine, October 2, 2007.
- Senghas, A. (2005) The Emergence of Spatial and Temporal Differentiation in Nicaraguan Sign Language. Invited lecture, Colloquium Series on Mechanisms of Language and Conceptual Representation and Development, Program in Biopsychology, Hunter College, City University of New York (CUNY), March 3, 2005.
- Senghas, A. (2004) Spatial and Temporal Differentiation in Nicaraguan Sign Language: The Emergence of Structure. Invited lecture, Linguistics Colloquium Series, New York University, October 29, 2004.
- Senghas, A. (2004) Spatial and Temporal Differentiation in Nicaraguan Sign Language: The Emergence of Structure. Invited lecture, University Seminar 681: Language and Cognition, Columbia University, October 28, 2004.
- Senghas, A. (2004). Desde el símbolo a la sintaxis: Observando el nacimiento del Idioma de Señas de Nicaragua. Morning workshop in the opening conference of the Master's Program in Sign Language at the University of Seville, Spain, October 4, 2004.
- Senghas, A., and S. Littman (2004). Segmentation in the expression of motion events in co-speech gesture, Nicaraguan Sign Language (NSL) and Spanish Sign Language (LSE). Invited lecture, Department of Linguistics, Gallaudet University, September 23, 2004.
- Senghas, A. (2004) Linguistic and social factors in the emergence of a new language: The case of NSL. Invited lecture, Series on Language Creation and Input, Center for Human Development, University of California, San Diego, May 28, 2004.
- Senghas, A. (2004) How children turn gesture into grammar: Spatial and temporal segmentation in Nicaraguan Sign Language. Invited lecture, Department of Psychology, Wellesley College, April 21, 2004.
- Senghas, A. (2004) How children turn gesture into grammar: Spatial and temporal segmentation in Nicaraguan Sign Language. Invited lecture, Cognition, Brain, and Behavior Research Seminar, Department of Psychology, Harvard University, February 4, 2004.
- Senghas, A. (2003). From gestures to grammar: How children are creating Nicaraguan Sign Language. Invited lecture, Institute for Research in Cognitive Science (IRCS) Colloquium Series, University of Pennsylvania, December 2003.
- Senghas, A. (2003). The differentiation of grammatical elements in Nicaraguan Sign Language over historical and ontogenetic developmental timelines. Invited lecture, Speaker Series, Center for Behavior, Evolution, and Culture, University of California, Los Angeles (UCLA), November 2003.
- Senghas, A. (2003). How learning creates language: Evidence from the emergence of Nicaraguan Sign Language, Invited lecture, Laboratory for Developmental Studies, Department of Psychology, Harvard University, October 2003.
- Senghas, A. (2003). From gesture to grammar: how children are creating Nicaraguan Sign Language. Colloquium on Language and the Brain, University of Wisconsin, Madison, February 2003.

- Senghas, A. (2002). The emergence of grammatical devices for indicating location and orientation in Nicaraguan Sign Language, Invited Lecture, Workshop of the Sign Language Research Group, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, December 2002.
- Senghas, A. (2002). From gesture to grammar: how children are creating Nicaraguan Sign Language. Invited lecture, Colloquium Series of the Center for the Study of Human Development, Brown University, October 2002.
- Senghas, A. (2002). From gesture to grammar: The emergence of structure in Nicaraguan Sign Language. Invited lecture, Seminar in Sign Language Research, Department of Cognitive Science, University of California, San Diego, October 2002.
- Senghas, A., A. Özyürek, and S. Kita (2002). Encoding motion events in an emerging sign language: From Nicaraguan gestures to Nicaraguan signs. Invited lecture, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, January 2002.
- Senghas, A., A. Özyürek, and S. Kita (2002). The emergence of devices for indicating location and orientation in Nicaraguan Sign Language. Invited lecture, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, January 2002.
- Senghas, A. (2001). From symbols to syntax: How children created Nicaraguan Sign Language. Invited lecture, Cognitive and Linguistic Sciences Colloquium Series, Wellesley College, November 2001.
- Senghas, A. (2001). From gestures to morphemes: the emergence of grammar in Nicaraguan Sign Language. Invited lecture, Developmental Psychology Speaker Series, University of Connecticut, November 2001.
- Senghas, A., and J. E. Pyers (2001). Does linguistic complexity affect cognitive development? Evidence from an emerging sign language in Nicaragua. Invited lecture, Psychology Colloquium Series, Smith College, April 2001.
- Senghas, A. (2001). From Symbols to Syntax: How Nicaraguan Sign Language Acquired a Spatial Grammar, Invited lecture, CUNY Linguistics Colloquium, Graduate Center of City University of New York, March 2001.
- Senghas, A. (2000). From Symbols to Syntax: How Nicaraguan Sign Language Acquired a Spatial Grammar. Invited lecture, Language Acquisition, Modeling, and Processing speaker series, Rutgers University, December 2000.
- Senghas, A. (2000). How learning shapes a language: Spatial constructions in the second cohort of Nicaraguan signers. Invited presentation, The La Jolla Initiative on Explaining the Origins of Humans, La Jolla, CA, November 2000.
- Senghas, A. (2000). Sciences within the Liberal Arts Curriculum. Panel Discussant, Through the Lens of a Seven Sisters Education: The Seven Sisters Conference, Vassar College, March 24-26, 2000.
- Senghas, A. (2000). Emergence and convergence in a growing grammar: The birth of Nicaraguan Sign Language. Invited lecture, SUNY Stonybrook Linguistics Colloquium, February 2000.
- Senghas, A. (1999). The emergence of spatial morphology in Nicaraguan Sign Language. Invited lecture, Sign Language and Deaf Studies, City University, London, April 1999.

- Senghas, A. (1998). The emergence of grammatical structure via the language acquisition process in Nicaraguan Sign Language. Max Planck Institute for Psycholinguistics Luncheon Series Lecture, Nijmegen, The Netherlands, May 1998.
- Senghas, A. (1996). The emergence of structure in a new language: The verb phrase in Nicaraguan Sign. Invited lecture, University of Connecticut Lunchtime Talk Series in Psycholinguistics, Department of Linguistics, Storrs, CT, October 1996.
- Senghas, A. (1995). The birth of Nicaraguan Sign Language: The emergence of noun agreement. Yale University Linguistics Colloquium Series, New Haven, CT, November 1995.
- Senghas, A. (1995). Language acquisition. Two guest lectures in an undergraduate course on Child Development, Harvard University, Cambridge, MA.
- Senghas, A. (1994). The development of Nicaraguan Sign Language via the language acquisition process: The emergence of verb inflection. Psychology Colloquium Series at Smith College, Northampton, MA, December 1994.
- Bickerton, D., and A. Senghas (1994). The birth of languages: Historical and psycholinguistic studies converge. MIT Cognitive Science Center Colloquium Series, September 1994.

## K. Grants and Awards

### Fellowships

Award: Radcliffe Institute for Advanced Study, Mary I. Bunting Fellowship  
 Title: *How a language was born: Cognitive, linguistic, and social factors that led to the creation of Nicaraguan Sign Language*  
 Term: 2014-2015  
 Amount: \$70,000 stipend, \$5,000 research

### Grants

Award: 2R01 DC005407-06A1  
 Title: *The creation and enhancement of language*  
 Agency: National Institutes of Health (NIH)/National Institute of Deafness and other Communication Disorders (NIDCD)  
 Term: 2009-2014  
 Amount: \$875,000 direct costs

Award: 3R01 DC005407-06A1S1  
 Title: *The creation and enhancement of language: Postdoctoral supplement for Amber Martin*  
 Agency: National Institutes of Health (NIH)/National Institute of Deafness and other Communication Disorders (NIDCD)  
 Term: 2009-2011  
 Amount: \$200,000 direct costs

Award: 2R56 DC005407  
 Title: *The creation and enhancement of language*  
 Agency: National Institutes of Health (NIH)/National Institute of Deafness and other Communication Disorders (NIDCD)  
 Term: 2008-2009  
 Amount: \$100,000 direct costs

Award: R01 DC005407  
 Title: *The creation and enhancement of a language by children*

Agency: National Institutes of Health (NIH)/National Institute of Deafness and other  
Communication Disorders (NIDCD)  
Term: 2002-2008  
Amount: \$500,000 direct costs

**Prior Awards**

1995-1998 National Institutes of Health (NIH) Postdoctoral Fellowship,  
University of Rochester  
1994-1995 Spencer Foundation Dissertation Fellowship  
1994-1995 American Association of University Women (AAUW) American  
Fellowship (declined)  
1994 Edward J. Poitras Fellowship, Massachusetts Institute of Technology  
1993-1994 National Institutes of Mental Health (NIMH) Development of Cognition  
Training Award  
1992-1993 National Institutes of Health (NIH) National Research Service  
Award (NRSA)  
1991, 1995 Linguistic Society of America (LSA) Summer Institute Fellowship  
1990-1991 National Institutes of Mental Health (NIMH) Development of Cognition  
Training Award  
1990 National Science Foundation (NSF) Graduate Fellowship Honorable Mention

**L. Service to the College and University**

Barnard College Institutional Research and Assessment Committee (IRAC)  
Committee member, 2015-present  
Barnard College Steering Committee for the Teaching and Learning Center  
Committee member, 2013-present  
Barnard College Academic Space Committee  
Committee member, and Faculty rep to Steering Committee, 2013-2015  
Barnard College Department of Psychology  
Department Curriculum Committee member, 2011-present  
Barnard College Department of Psychology  
Department Chair, 2010-2013  
Barnard College Department of Psychology  
Laboratory Instructor Search Committee member, 2012-2013  
Barnard College Department of Psychology  
Laboratory Instructor Search Committee member, 2011-2012  
Barnard College Department of Psychology  
Clinical Psychologist Search Committee member, 2011-2012  
Columbia University  
Ad-hoc Committee for Advancement and Promotion, 2010-2011  
Barnard College Department of Psychology  
Developmental Psychologist Search Committee member, 2008-2009

Barnard College Department of Psychology  
Cognitive Psychologist Search Committee member, 2008-2009

Barnard College Department of Psychology  
Developmental Psychologist Search Committee member, 2007-2008

Barnard College Department of Psychology  
Departmental Representative for Undergraduate Affairs, 2005-2006, 2006-2007

Deans' Accommodations Committee  
Committee member, 2004-2007

Barnard Committee on Faculty Governance and Procedures  
Committee member, 2002-2003, 2006-2007

Columbia/Barnard Psychology Colloquium Series  
Co-coordinator, 2005-2007

Barnard College Department of Anthropology  
Linguistic Anthropologist Search Committee member, 2002-2003

Barnard College Department of Psychology  
Clinical Psychologist Search Committee member, 2002-2003

Barnard Psychology Club  
Faculty co-advisor, 2000-2003

Barnard Committee on Honors  
Committee member, 2000-2002

Barnard College Center for Research on Women  
Advisory Board member, 2000-2003, 2004-2006

Barnard College 504/ADA Access Committee  
Committee member, 2000-2002

Barnard College Department of Psychology  
Cognitive Psychologist Search Committee member, 1999-2002

Barnard College Faculty Teller, 1999-2000

#### **M. Service to the Profession**

2015	Site Visit Review Committee member, Science of Learning Center, National Science Foundation (NSF), Washington, DC, June 10-12.
2015	Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
2014	Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
2012	Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
2012	Reviewer for International Society for Gesture Studies (ISGS) conference

- 2011 Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
- 2010 Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
- 2009 Participant, Mellon 23 Workshop in Linguistics, Swarthmore College, Swarthmore, PA, October 2-4.
- 2009 External Review Committee, Linguistics Department, Swarthmore College Swarthmore, PA, February 23-25.
- 2007 Workshop participant, Opportunities and Challenges for Language Learning and Education, National Science Foundation (NSF), Arlington, VA, September 5-7.
- 2007 Committee member, Communication Disorders Review Committee (CDRC), National Institutes of Health (NIH)
- 2005-present Editorial Board member, *Language Learning and Development*
- 2005 Ad Hoc Committee member, Small Grant Review Panel, National Institutes of Health (NIH)/NIDCD
- 2005 Reviewer for grant proposal, National Science Foundation (NSF), Linguistics Program, Division of Behavioral and Cognitive Sciences
- 2001 Reviewer for grant proposal, European Science Foundation EUROCORES Program on the Origin of Man, Language, and Languages
- 2001-present Annual reviewer for the Society for Research on Child Development (SRCD)
- 2000-present Annual reviewer for the Boston University Conference on Language Development (BUCLD)
- 1999-2003 Editorial Board member, *Annual Review of Language Acquisition* (ARLA)

1999-present Occasional peer reviewer for:  
*Canadian Journal of Linguistics*  
*Child Development*  
*Cognition*  
*Cognitive Psychology*  
*Current Biology*  
Cambridge University Press  
*Developmental Psychology*  
*Interaction Studies*  
*Journal of Experimental Psychology: Human Perception and Performance*  
*Philosophical Transactions of the Royal Society: Biological Sciences*  
*Pragmatics*  
*Proceedings of the National Academies of Science (PNAS)*  
*Public Library of Science (PLOS ONE)*  
*Sign Language and Linguistics*  
*Sign Language Studies*  
*Theoretical Issues in Sign Language Research (TISLR)*  
*Topics in Cognitive Science (TopICS)*  
*Language Learning and Development*

#### **O. Consultantships**

2011-present Consultant on NIH/NIDCD grant R01 DC000491-24, *From Spontaneous Sign Systems to Language*, with PI Susan Goldin-Meadow (University of Chicago)

2006-2008 Consultant on NSF grant BCS-0544944, *SignTyp: A Cross-Linguistic database of signs*, with co-PIs Harry van der Hulst and Rachel Channon (University of Connecticut)

2003-2008 Consultant on NIH R01 grant *Emergence of Grammar in a New Language*, with co-PIs Carol Padden (University of California, San Diego) and Wendy Sandler (University of Haifa)