

# CURRICULUM VITAE

## EDWARD S. KLIMA

Associate Director  
Laboratory for Cognitive Neuroscience  
The Salk Institute for Biological Studies  
La Jolla, California 92037

Chairman of the Department of Linguistics  
Director, Center for Research in Language  
Professor of Linguistics (Emeritus)  
University of California, San Diego  
La Jolla, California 92093

### EDUCATION

Harvard University	Ph.D., Linguistics	1965
University of Paris and College de France	Linguistics	1955-1956
Harvard University	M.A., Linguistics	1955
University of Iceland	Linguistics	1953-1954
Dartmouth College	B.A., Linguistics	1953

### HONORS AND AWARDS

Distinguished Scientific Contribution Award of the American Psychological Association for 1992, presented at APA in Toronto, Canada, 1993.

Most Outstanding Book in the Behavioral Sciences Award, 1979, Association of American Publishers, Professional and Scholarly Publishing Division, for The Signs of Language, Harvard University Press.

Theoretical Issues in Sign Language Research Meeting in Boston, 1990: "In Honor of Ursula Bellugi and Edward S. Klima."

Javits Neuroscience Investigator Award, National Institute of Neurological Diseases and Stroke, and Pepper Award, National Institute of Deafness and Communication Disorders: Co-Principal Investigator of Spatial Cognition and Spatial Language, NIH, 1985-1992.

MERIT Award, National Institute of Child Health and Human Development: Co-Principal Investigator of Language, Modality, and the Brain, NIH, 1988-1998.

### ACADEMIC POSITIONS

University of California San Diego, CA	Professor of Linguistics Department Chairman Director, Center for Research in Language in Language Acquisition	1967-92 1971-75 1975-85
The Salk Institute Biological Studies	Adjunct Professor Associate Director,	1992-present 1992-present

La Jolla, CA	Laboratory for Cognitive Neuroscience Visiting Professor, Summers	1973-1992
Consiglio Nazionale delle Ricerche Rome, Italy	Visiting Professor	1981
Rockefeller University New York City	Visiting Professor, Fall Semester	1969
Massachusetts Institute of Technology Cambridge, MA	Associate Professor, Linguistics Ass't. Professor, Modern Languages Instructor, Modern Languages	1965-67 1959-65 1957-59

### **PROFESSIONAL SERVICES**

Editorial Board, Cognition: International Journal of Cognitive Psychology

Member, Board of Editorial Commentators of Current Commentaries in Behavioral and Brain Studies

Member, Visiting Advisory Committee of the Massachusetts Institute of Technology,  
Cambridge, Massachusetts

Member, International Scientific Council of the Center of Comparative Poetics, Paris, France

Member, Review Committee for the Department of Linguistics of the University of Massachusetts

Lecture Coordinator for NATO Advanced Studies Institute--Recent Developments in Language and Cognition, Copenhagen, Denmark

### **SELECTED GRANTS**

2001-2009 National Institutes of Health (NICHD). Co-Investigator. (P01 HD33113). Program Project. Williams Syndrome: Bridging Cognition, Brain and Gene.

1997-2002 National Institutes of Health (NIDCD). Neural Correlates of Lexical Processing — English and ASL (P50 DC03189). Co-Investigator, Project 2: Neural Systems Underlying Lexical Retrieval of ASL Signs.

1988-2004 MERIT Award (NICHD), Method for Extending Research in Time, Co-Investigator. (R37 HD13249) Language, Modality and the Brain.

1982-2007 National Institutes of Health (NIDCD). Co-Investigator (RO1 DC00201). Brain Organization: Clues from Sign Aphasia.

1979-1998 National Institutes of Health (NICHD). Co-Principal Investigator, Psycholinguistics of American Sign Language. Renewed and extended, 1988-1998, as MERIT Award, Language, Modality and the Brain.

1971-1996 National Institutes of Health (NINDS, NIDCD). Co-Principal Investigator (1971-1985), The Acquisition of Sign Language and Its Structure. Javits Neurosciences Investigator Award from NINDS, continued as Pepper Award, NIDCD. Renewed (1985-1996), as Spatial Cognition and Spatial Language.

1990-1995 National Institutes of Health (NICHD). Co-Principal Investigator, Fractionations between Language and Cognition.

- 1974-1992 National Science Foundation. Co-Principal Investigator (1974-1978), Formational Constraints on a Language in a Visual Mode. Continued (1978-1992), as The Structured Use of Space and Movement.
- 1991-1994 National Institutes of Health (NINDS). Co-Principal Investigator, Anatomical Substrates of Complex Behavior — Project 4: Anatomical Basis of Language.
- 1989-1990 National Science Foundation. Co-Principal Investigator, Dissociations between Language and Cognition: Evidence from a Neurodevelopmental Disorder.

## PUBLICATIONS

### BOOKS

Poizner, H., **Klima, E.S.**, & Bellugi, U. (1987). *What the hands reveal about the brain*. Cambridge, MA: Bradford Books/MIT Press. —Reprinted in paperback (1990). — German translation (1990). *Was die hande uber das gehirn verraten..* Hamburg: Zentrums Verlag Signum. —Japanese translation (1996). Tokyo: Shinyosha Press.

**Klima, E.S.**, & Bellugi, U. (1979). *The signs of language*. Cambridge, MA: Harvard University Press. —Reprinted in paperback (1988, 1995).

(Award from Association of American Publishers, for “Most Outstanding Book in the Behavioral Sciences”, 1979)

Emmorey, K., & Lane, H. (2000). *The signs of language revisited: An anthology to honor Ursula Bellugi and Edward Klima*, (Editors), Lawrence Erlbaum Associates: Mahwah, NJ.

### SELECTED ARTICLES, CHAPTERS AND ABSTRACTS

#### **2008.**

Bellugi, U., **Klima, E.S.**, & Hickok, G.H. (2008, in press). Brain organization: Clues from deaf signers with left and right hemisphere lesions. In L. Clara (Ed.), *Gesture and Word*. Lisbon, Portugal.

Hickok, G., Pickell, H., **Klima, E.S.**, & Bellugi, U. (2008, in press). Neural dissociation in the production of lexical versus classifier signs in ASL: Distinct patterns of hemispheric asymmetry. *Neuropsychologia*. (PMID: 18172749) [PubMed](#)

#### **2007.**

Brentari, D., Bellugi, U., **Klima, E.S.**, Pickell, H., & Hickok, G. (2007, submitted). Linguistic expression of motion events in deaf signers with focal lesions.

Bellugi, U., & **Klima, E.S.** (2007). What the hands reveal about the brain. Keynote lecture, International Dyslexia Society, Dallas, Tx.

#### **2006.**

Bellugi, U., **Klima, E.S.**, & Hickok, G. (2006). Chapter. Brain organization for Sign Language. Chapter In L. Clara. (Ed.) *Of Gesture and Word*. Editorial Caminho, Portugal.

#### **2005.**

Bellugi, U., & **Klima, E.S.** Brain organization: Clues from sign aphasia. (August, 2005). Japanese Sign language linguistics conference, Invited Keynote presentation, University of Chiba, Tokyo, Japan.

Bellugi, U., & **Klima, E.S.** (October, 2005). Brain and language symposium: Sign Language Aphasia, Invited Public lecture, University of Lisbon.

Bellugi, U., **Klima, E. S.**, & Korenberg, J. R. (2005). Linking behavior, brain and genes in two different genetic syndromes. In D. Riva, U. Bellugi & M. B. Denckla (Eds.), *Neurodevelopmental disorders: Cognitive behavioral phenotypes* (pp. 39-58). France: John Libbey Eurotext.

- Bellugi, U., **Klima, E.S.**, & Korenberg, J.R. (2005). Linking behavior, brain and genes in two different genetic syndromes. In D. Riva, U. Bellugi, & M. B. Denckla (Eds.), *Neurodevelopmental disorders: Cognitive behavioral phenotypes* (pp. 39-58). Mariani Foundation Paediatric Neurology Series:13, London, United Kingdom: Libbey.
- Buchsbaum, B., Pickell, B., Love, T., Hatrak, M., **Klima, E.S.**, Bellugi, U., & Hickok, G. (2005). Neural substrates for verbal working memory in deaf signers: fMRI study and lesion case report. *Brain and Language*, 95(2), 265-272. (PMID: 16246734) [Pubmed](#)
- Pickell, H., **Klima, E.S.**, Hickok, G., & Bellugi, U. (November, 2005). Administration of standardized aphasia batteries in American Sign Language. [Abstract/Poster], *American Speech and Hearing Association*, San Diego, CA.
- Pickell, H., **Klima, E.S.**, Love, T., Kritchevsky, M., Bellugi, U., & Hickok, G. (2005). Sign language aphasia following right hemisphere damage in a left-hander: A case of reversed cerebral dominance in a deaf signer? *Neurocase*, 11(3), 194-203. (PMID: 16006340) [Pubmed](#)
- Reilly, J., Lacroix, A., Poirier, J., Bernicot, J., Bellugi, U., & **Klima, E.S.** (2005). Narratives in French and American children with Williams Syndrome. *L'homme et Langage, Dec* 2005(2), 111 - 125.

#### 2004.

- Klima, E.S.**, & Bellugi-Klima, U. (2004). Syntactic regularities in the speech of children. In B. Lust & C. Foley (Eds.), *First Language Acquisition: The Essential Readings*, pp. 344-366, Oxford: Blackwell Publishing. (Reprinted from: *Psycholinguistic papers*, pp. 183-208, in J. Lyons & R.J. Wales (Eds.)
- Reilly, J., Bellugi, U., Bernicot, J., Lacroix, A., **Klima, E. S.** & Vicari, S. (June, 2004). Narratives from children with Williams syndrome: Studies in French, Italian and English [Abstract]. (Abstract for a paper presentation *Second Lisbon Meeting on Language Acquisition* with special reference to Romance languages) Lisbon, Portugal.
- Searcy, Y.M., Lincoln, A.J., Rose, F.E., **Klima, E.S.**, Bavar, N. & J. R. Korenberg (2004). The relationship between age and IQ in adults with Williams syndrome. *American Journal on Mental Retardation*, 109(3), 231-236. (PMID: 15072519) [Pubmed](#)

#### 2003.

- Klima, E.S.**, & Bellugi-Klima, U. (2003). "Syntactic Regularities in the Speech of Children" pp. 183-208. Reprinted in: B. Lust & C. Foley (Editors), *First Language Acquisition: The Essential Readings*, Oxford: Blackwell Publishing.

#### 2002.

- Hickok, G., Love, T., & **Klima, E.S.** (2002). Role of the left hemisphere in sign language comprehension. *Brain and Language*, 82(2), 167-178. (PMID: 12096874) [Pubmed](#)
- Hickok, G., Bellugi, U., & **Klima E.S.** (2002). Sign language in the brain. [Special edition "The Hidden Mind"] *Scientific American*, 12(1), 46-53. (PMID: 11396343) [Pubmed](#)

## 2001.

- Bellugi, U., & **Klima, E.** (2001). Sign Language. In: N. Smelser & P. Baltes (eds.) *International Encyclopedia of the Social and Behavioral Sciences* (Vol.21, pp. 14066-71). Oxford, UK: Elsevier.
- Bellugi U., Korenberg, J.R., & **Klima E.S.** (2001). Williams syndrome: An exploration of neurocognitive and genetic features. In M. Posner (Ed.) *Journal of Clinical Neurosciences Research*, Special Issue 1: 217-229.
- Hickok, G., Bellugi, U., & **Klima, E.S.** (2001). Sign language in the brain. *Scientific American*, 284(6), 58-65. (PMID: 11396343) [Pubmed](#)
- Fok, A., Yuen, C.Y., Bellugi, U., & **Klima, E.** (2001). *Visual and Silent Mode of Communication -- The Sign Language used in Hong Kong*. Teaching and Use of Sign Languages, National Institute of Education, Taiwan, pp 8-21.
- Lichtenberger, L., Bellugi, U., Kikuchi, D., & **Klima, E.** (2001). The intersection of language and space: Spatial prepositions in Williams syndrome. [Tech. Report #2112]. University of California, San Diego, Institute for Neural Computation.
- Searcy, Y.S., Lincoln, A., Rose, F., Bavar, N., & **Klima, E.S.** (2001). On the relationship between IQ and age in Williams syndrome. [Tech. Report #2110]. University of California, San Diego, Institute for Neural Computation.

## 1999.

- Hickok, G., Wilson, M., Clark, K., **Klima, E. S.**, Kritchevsky, M., & Bellugi, U. (1999). Discourse Deficits Following Right Hemisphere Damage in Deaf Signers. *Brain Language*, 66(2), 233-248. (PMID: 10190988) [Pubmed](#)
- Klima, E.S.**, Tzeng, O., Fok, A., Bellugi, U., Corina, D., & Bettger, J. (1999). From sign to script: Effects of linguistic experience on perceptual categorization. In O.J. L. Tzeng, *The Biological Bases of Language*, Monograph series, 13, *Journal of Chinese Linguistics*, 96-129.

## 1998.

- Emmorey, K., **Klima, E.S.**, & Hickok, G. (1998). Mental rotation within linguistic and non-linguistic domains in users of American sign language. *Cognition*, 68(3), 221-246. (PMID: 9852666) [Pubmed](#)
- Hickok, G., Bellugi, U., & **Klima, E.S.** (1998). The neural organization of language: Evidence from sign language aphasia. *Trends in Cognitive Sciences*, 2, 129-136.
- Hickok, G., Bellugi, U., & **Klima, E.S.** (1998). What's right about the neural organization of sign language? A perspective on recent neuroimaging results. *Trends in Cognitive Sciences*, 2, 465-468.
- Hickok, G., Bellugi, U., & **Klima, E.S.** (1998). The basis of the neural organization for language: Evidence from sign language aphasia. *Reviews in the Neurosciences*, 8(3-4), 205-222. (PMID: 9548233) [Pubmed](#)

## 1997.

- Wilson, M., Bettger, J.G., Niculae, I., & **Klima, E.S.** (1997). Modality of language shapes working memory: Evidence from digit span and spatial span in ASL signers. *Journal of Deaf Studies and Deaf Education*, 2(3). 150-160. (PMID: 15579844) [PubMed](#)

- Bellugi, U., & **Klima, E.S.** (1997). Language, spatial cognition, and the brain. In M. Ito, Y. Miyashita, & E.T. Rolls (Eds.), *Cognition, computation and consciousness* (pp. 177-189). Cambridge, England: Oxford University Press.
- Losh, M., Reilly, J., Bellugi, U., Cassady, C., & **Klima, E.S.** (1997). Linguistically encoded affect is abnormally high in Williams syndrome children. *International Behavioral Neuroscience Society Abstracts*, 6, 60, #P2-53.
- Love, T., Hickok, G., Clark, K., Kritchevsky, M., **Klima, E.S.**, & Bellugi, U. (1997). Some similarities in the neural organization of signed and spoken languages. *Cognitive Neuroscience Society Abstracts*, 4, 107, #44.
- Beret, N., Lai, Z.C., Hickok, G., Stiles, J., & **Klima, E.S.** (1997). Spatial integrative deficits in Williams syndrome: Comparison with right hemisphere damage. *International Behavioral Neuroscience Society Abstracts*, 6, #P2-47, p. 58.
- Clark, K., Love, T., Hickok, G., Emmorey, K., & **Klima, E.S.** (1997). Effects of right hemisphere lesions on deaf signers' use of linguistic space. *International Behavioral Neuroscience Society Abstracts*, 6, #P2-26, p. 53.
- Hickok, G., Love, T., Clark, K., Kritchevsky, M., **Klima, E.S.**, & Bellugi, U. (1997). Evidence for modality independent cerebral organization in signed and spoken languages. *International Behavioral Neuroscience Society Abstracts*, 6, #P2-24, p. 52.
- Losh, M., Reilly, J., Bellugi, U., Cassady, C., & **Klima, E.S.** (1997). Linguistically encoded affect is abnormally high in Williams syndrome children. *International Behavioral Neuroscience Society Abstracts*, 6, #P2-53, p. 60

## 1996.

- Bellugi, U., **Klima, E.S.**, & Wang, P.P. (1996). Cognitive and neural development: Clues from genetically based syndromes. In D. Magnussen (Ed.), *The life-span development of individuals: Behavioral, neurobiological, and psychosocial perspectives* (pp. 223-243). The Nobel Symposium. New York: Cambridge University Press.
- Emmorey, K., Hickok, G., & **Klima, E.S.** (1996). The neural organization for sign language: Insights from right hemisphere damaged signers. *Brain and Cognition*, 32(2), 212-215.
- Hickok, G., Bellugi, U., & **Klima, E.S.** (1996). The neurobiology of signed language and its implications for the neural organization of language. *Nature*, 381(6584), 699-702. (PMID: 8649515) [Pubmed](#)
- Hickok, G., Kritchevsky, M., Bellugi, U., & **Klima, E.S.** (1996). The role of the left frontal operculum in sign language aphasia: Clues to the function of Broca's area. *Neurocase*, 2, 373-380.
- Hickok, G., Say, K.A., Bellugi, U., & **Klima, E.S.** (1996). The basis of hemispheric asymmetries for language and spatial cognition: Clues from focal brain damage in two deaf native signers. *Aphasiology*, 10(6), 577-591.
- Klima, E.S.**, Tzeng, O.J.L., Fok, A., Bellugi, U., Corina, D., & Bettger, J. (1996). From sign to script: Effects of linguistic experience on perceptual categorization. Technical Report #INC-9603, Institute for Neural Computation, University of California, San Diego, CA.
- Rossen, M.L., **Klima, E.S.**, Bellugi, U., Bihrlé, A., & Jones, W. (1996). Interaction between language and cognition: Evidence from Williams Syndrome. In J.H. Beitchman, N. Cohen, M. Konstantareas, & R. Tannock (Eds.), *Language, learning, and behavior disorders: Developmental, biological, and clinical perspectives*, (pp. 367-392). New York: Cambridge University Press.

## 1995.

- Bellugi, U., Rossen, M., & **Klima, E.S.** (1995). Towards a cognitive phenotype of Williams Syndrome. Special Issue, *Genetic Counseling*, 6(1), 133-134.

- Bettger, J.G., Ewan, B., Smith, C.L., & **Klima, E.S.** (1995). Acquisition of spatial devices in American Sign Language as evidenced by sentence repetition. In E.V. Clark (Ed.), *Proceedings of the twenty-seventh annual Stanford child language research forum* (pp. 81-90). Stanford, CA: Stanford University, Center for the Study of Language and Information.
- Clark, K., Hickok, G., Batch, L., Bellugi, U., **Klima, E.S.**, & Kritchevsky, M. (1995). Dissociations between spatially organized discourse and non-language spatial cognition in American Sign Language following right hemisphere damage. *Brain and Language*, 51, 198-200.
- Emmorey, K., Hickok, G., & **Klima, E.S.** (1995). Differences in mental rotation within linguistic and nonlinguistic domains: Evidence from an ASL signer with right hemisphere damage. *Brain and Language*, 51, 176-179.
- Harrison, D., Reilly, J., & **Klima, E.S.** (1995). Unusual social behavior in Williams syndrome: Evidence from biographical interviews. Special Issue, *Genetic Counseling*, 6(1), 181-183.
- Hickok, G., Batch, L., Clark, K., Say, K., Bellugi, U., **Klima, E.S.**, & Kritchevsky, M. (1995). Discourse deficits in American Sign Language: Following right hemisphere damage. *Cognitive Neuroscience Society Abstracts*, 2, 17.
- Hickok, G., **Klima, E.S.**, Kritchevsky, M., & Bellugi, U. (1995). A case of 'sign blindness' following damage in the left occipital cortex in a deaf signer. *Neuropsychologia*, 33(12), 1597-1606. (PMID: 8745117) [Pubmed](#)
- Hickok, G., Kritchevsky, M., Bellugi, U., & **Klima, E.S.** (1995). The role of the left frontal operculum in sign language aphasia: Clues to the function of Broca's area. *Brain and Language*, 51(1), 179-181.
- Karmiloff-Smith, A., **Klima, E.S.**, Bellugi, U., Grant, J., & Baron-Cohen, S. (1995). Is there a social module? Language, face processing, and theory of mind in subjects with Williams syndrome. *Journal of Cognitive Neuroscience*, 7(2), 196-208.
- Reilly, J.S., Harrison, D., & **Klima, E.S.** (1995). Emotional talk and talk about emotions. Special Issue, *Genetic Counseling*, 6(1), 158-159.
- Riche, L., Bettger, J., & **Klima, E.S.** (1995). Acquisition of the referential system in American Sign Language by deaf children. In E.V. Clark (Ed.), *Proceedings of the twenty-sixth annual Stanford child language research forum* (pp. 207-216). Stanford, CA: Stanford University, Center for the Study of Language and Information.
- Rossen, M.L., Jones, W., Wang, P.P., & **Klima, E.S.** (1995). Face processing: Remarkable sparing in Williams syndrome. Special Issue, *Genetic Counseling*, 6(1), 138-140.

#### 1994.

- Bellugi, U., & **Klima, E.S.** (1994). Language, cognition, and brain organization. In *Proceedings of the international symposium on computation, cognition, and consciousness* (p. 75). Soraku-gun, Kyoto, Japan: International Institute for Advanced Studies.
- Hickok, G., **Klima, E.S.**, Kritchevsky, M., & Bellugi, U. (1994). A case of 'sign blindness' following damage in left occipital cortex in a deaf signer. *Cognitive Neuroscience Society Abstracts*, 1, 84. (PMID: 8745117) [Pubmed](#)

#### 1993.

- Bellugi, U., & **Klima, E.S.** (1993). Language, spatial cognition, and neuronal plasticity. *European Journal of Neurosciences*, 106.



Bellugi, U., Poizner, H. & **Klima, E.S.** (1993). Language, modality and the brain. In M. Johnson (Ed.), *Brain development and cognition* (pp. 403-423). London: Blackwell Publishers. (PMID: 2479135) [PubMed](#)

**Klima, E.S.** (1993). Language, spatial cognition, and neuronal plasticity. Address, Distinguished Scientific Contribution Award for 1992, *American Psychological Association*, 216, 153.

Riche, L., Bellugi, U., Emmorey, K., Bettger, J.G., & **Klima, E.S.** (1993). Development and breakdown of phonological awareness for ASL. In E.V. Clark (Ed.), *Proceedings of the twenty-fifth annual child language research forum* (pp. 86-95). Stanford, CA: Stanford University, Center for the Study of Language and Information.

## 1992.

Anderson, S.W., Damasio, H., **Klima, E.S.**, Damasio, A.R., Bellugi, U., & Brandt, J.P. (1992). Acquisition of signs from American Sign Language in hearing individuals following left hemisphere damage and aphasia. *Neuropsychologia*, 30(4), 329-340. (PMID: 1376447) [PubMed](#)

Fok, A., van Hoek, K., **Klima, E.S.**, & Bellugi, U. (1992). The interplay between visuospatial script and visuospatial language. In D. Martin (Ed.), *Advances in cognition, education and deafness*. Washington, DC: Gallaudet University Press.

## 1991.

Bellugi, U., & **Klima, E.S.** (1991). Properties of visual spatial languages. In S. Prillwitz & T. Vollhaber (Eds.), *Sign language research and application* (pp. 115-145). Hamburg, Germany: Signum-Verlag Press.

**Klima, E.S.** (1991). Linguistic awareness and metalinguistic control. In I. Mattingly & M. Studdert-Kennedy (Eds.), *Modularity and the motor theory of speech perception* (pp. 413-422). Hillsdale, NJ: Lawrence Erlbaum Associates.

Lillo-Martin, D., & **Klima, E.S.** (1991). Pointing out differences: American Sign Language pronouns in syntactic theory. In S. Fischer & P. Siple, (Eds.), *Theoretical issues in Sign Language research* (Vol. 1, pp. 191-210). Chicago, IL: University of Chicago Press.

Poizner, H., Bellugi, U., & **Klima, E.S.** (1991). Brain function for language: Perspectives from another modality. In I. Mattingly & M. Studdert-Kennedy (Eds.), *Modularity and the motor theory of speech perception* (pp. 145-170). Hillsdale, NJ: Lawrence Erlbaum Associates.

Rubba, J. & **Klima, E.S.** (1991). Preposition use in a speaker with Williams syndrome: Some cognitive grammar proposals. In Technical Report, Center for Research on Language, University of California, San Diego, CA, 5(3), 3-12.

## 1990.

Bellugi, U., Poizner, H., & **Klima, E.S.** (1990). Mapping brain functions for language: Evidence from sign language. In G.M. Edelman, W.E. Gall, & W.M. Cowan (Eds.), *Signal and sense: Local and global order in perceptual maps* (pp. 521-543). New York: Wiley-Liss.

Reilly, J., **Klima, E.S.**, & Bellugi, U. (1990). Once more with feeling: Affect and language in atypical populations. *Development and Psychopathology*, 2, 367-391.

Poizner, H., Bellugi, U., & **Klima, E.S.** (1990). Biological foundations of language: Clues from sign language. In M. Cowan (Ed.), *Annual review of neuroscience* (13, pp. 283-307). Palo Alto, CA: Annual Reviews. (PMID: 2183678) [Pubmed](#)

## 1963 - 1989.

- Bellugi, U., Poizner, H., & **Klima, E.S.** (1989). Language, modality and the brain. *Trends in Neurosciences*, 12(10), 380-388. (PMID: 2479135) [Pubmed](#)
- Bellugi, U., Tzeng, O.J.L., **Klima, E.S.**, & Fok, A. (1989). Dyslexia: Perspectives from sign and script. In A.M. Galaburda (Ed.), *From reading to neurons* (pp. 137-172). Cambridge, MA: MIT Press/Bradford Books.
- Poizner, H., Bellugi, U., & **Klima, E.S.** (1989). Sign language aphasia. In F. Boller & J. Grafman (Eds.), *Handbook of neuropsychology* (2, pp. 157-172). The Netherlands: Amsterdam, Elsevier Publishers.
- Bellugi, U., **Klima, E.S.**, & Poizner, H. (1988). Sign language and the brain. In F. Plum (Ed.), *Language, communication, and the brain* (pp. 39-56). New York: Raven Press. (PMID: 2451852) [Pubmed](#)
- Fok, Y.Y.A., Bellugi, U., van Hoek, K., & **Klima, E.S.** (1988). The formal properties of Chinese languages in space. In M. Liu, H.C. Chen, & M.J. Chen (Eds.), *Cognitive aspects of the Chinese language* (pp. 187-205). Hong Kong: Asian Research Service.
- Klima, E.S.**, Bellugi, U., & Poizner, H. (1988). Grammar and space in sign aphasiology. *Aphasiology*, 2, 319-328. —Reprinted (1989) as Grammatik und raum in der gebarden-aphasiologie. *Das Zeichen*, 9, 51-58.
- Klima, E.S.**, Bellugi, U., & Poizner, H. (1988). The neurolinguistic substrate for sign language. In L.M. Hyman & C.N. Li (Eds.), *Language, speech and mind* (pp. 138-152). London: Routledge.
- Poizner, H., **Klima, E.S.**, Bellugi, U., & Livingston, R. (1986). Motion analysis of grammatical processes in a visual-gestural language. In V. McCabe & G. Balzano (Eds.), *Event cognition* (pp. 155-174). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Klima, E.S.**, Bellugi, U., & Poizner, H. (1985). Sign language and brain organization. In V. Volterra & W.C. Stokoe (Eds.), *Proceedings of the third international symposium on sign language research* (pp. 72-78).
- Klima, E.S.**, Bellugi, U., & Poizner, H. (1983). Sign aphasia. In H. Kao, (Ed.), *Psychological aspects of the Chinese language*. Hong Kong: Hong Kong University Press.
- Poizner, H., **Klima, E.S.**, Bellugi, U., & Livingston, R. (1983). Motion analysis of grammatical processes in a visual-gestural language. In *Motion: Representation and perception* (pp. 148-171). New York: The Association for Computing Machinery.
- Bellugi, U., Poizner, H., & **Klima, E.S.** (1983). Brain organization for language: Clues from sign aphasia. *Human Neurobiology*, 2(3), 155-170. (PMID: 6668233) [Pubmed](#)
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- Klima, E.S., & Bellugi, U.** (1972). The signs of language in child and chimpanzee. In T. Alloway, L. Kramer, & P. Pliner (Eds.), *Communication and affect* (pp. 67-96). New York: Academic Press.
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- Klima, E.S.** (1964). Negation in English. In J.A. Fodor & J.J. Katz (Eds.), *The structure of language*. New Jersey: Prentice-Hall.
- Klima, E.S.** (1964). Relatedness between grammatical systems. *Language*, 40, 1-20.
- Klima, E.S., & Lees, R.B.** (1963). Rules for English pronominalization. *Language*, 13, 17-28.

## **SELECTED PRESENTATIONS**

- Reilly, J., Bellugi, U., Bernicot, J., Lacroix, A., **Klima, E.S.**, & Vicari, S. (2004). Narratives from children with Williams syndrome: Studies in French, Italian and English. Paper presented at the 2<sup>nd</sup> Lisbon Meeting on Language Acquisition: Lisbon, Portugal.
- Bellugi, U., & **Klima, E.S.** (2003, June). Presentation: Genes and Human Behavior: Perspectives from Williams Syndrome. Salk International Council Annual Meeting *Childhood Diseases and Disorders of Development*. Stockholm, Sweden.
- Bellugi, U. & **Klima E.S.** (2002, May). Linking cognitive neuroscience and molecular genetics: New perspectives from Williams syndrome. Presented at Williams Syndrome and the Issue of Neurogenetic Developmental Disorders workshop. Center for Cognitive Science, Budapest, Hungary.
- Kreiter, J., Bellugi, U., Lichtenberger, L., **Klima, E.S.**, Reilly, J.S., & Kikuchi, D. (2002, November). *Gregarious language in narratives by adolescents with Williams syndrome*. Poster session at the American Speech-Language Hearing Association Convention, New Orleans, LA.
- Love, T., Bellugi, U., **Klima, E.S.**, & Hickok, G. (2002, October). A functional MRI study of the perception of ASL signs [Abstract]. *Academy of Aphasia Annual Meeting*. New York, NY.
- Pickell, H., Emmorey, K., Hickok, G., **Klima, E.S.**, & Bellugi, U. (2002, October). *Clues from American Sign Language: The role of the right occipital lobe in language and non-language functions*. Poster session at the Academy of Aphasia Annual Meeting, New York, NY.
- Bellugi, U., & **Klima, E.S.** (2000, June). What the hands reveal about the brain: Evidence from sign aphasia Abstract and Presentation, *Symposium on Cognitive Neuroscience*, Taipei, Taiwan.
- Bellugi, U., & **Klima E.S.** (2000, June). Linking Cognition, Brain and Gene: Evidence from Genetic Syndromes, *Brain Imaging Institute*, Taipei, Taiwan.
- Bellugi, U., & **Klima E.S.** (2002, May). Linking cognitive neuroscience and molecular genetics: New perspectives from Williams syndrome. Presented at Williams syndrome and the Issue of Neurogenetic Developmental Disorders. Center for Cognitive Science, Budapest, Hungary.
- Bellugi, U., & **Klima, E.S.** (2000, October). Linking cognitive neuroscience and molecular genetics: New perspectives from Williams syndrome. *Symposium on Neurobiology: From Genes to Thought EMBL*, Heidelberg, Germany.
- Gardner, C., Bettger, J., Bellugi, U., & **Klima, E.S.** (2002, October). The coordination of bimanual movements in American Sign Language: Implications for interhemispheric linguistic cooperation [Abstract]. *Academy of Aphasia Annual Meeting Abstracts*.
- Hickok, G., Love-Geffen, T., **Klima, E.S.**, Bellugi, U., Gunderson, K., Hatrak, M., & Gardner, C. (2001, March). The representation of ASL structure in the brain: Clues from a special case. Poster session presented at *The Salk Institute for Biological Studies*, La Jolla, CA.
- Kreiter, J., Bellugi, U., Lichtenberger, L., **Klima, E.S.**, Reilly, J.S., & Kikuchi, D. (2002, November). Gregarious language in narratives by adolescents with Williams syndrome [Abstract]. *American Speech-Language Hearing Association*, 435, 138.
- Kreiter, J., Bellugi, U., Reilly, J., & **Klima, E.S.** (2002, July). "And lo and behold..." Developmental trends in grammar and affect in Williams syndrome. Poster presentation *Williams Syndrome Association Professional Conference*, Long Beach, CA.
- Lichtenberger, E.O., Bellugi, U., Kikuchi, D.K., & **Klima, E.S.** (2002, July). The intersection of language and space: representing spatial prepositions. [Abstract, Poster]. *Williams Syndrome Association Professional Conference*, Long Beach, CA.

- Love, T., Bellugi, U., **Klima, E.S.**, & Hickok, G., (2000, April). An fMRI study of sign language perception. [Abstract, Poater] *Cognitive Neuroscience Society Annual Meeting*, San Francisco, CA., 127.
- Love, T., Bellugi, U., **Klima, E.S.**, & Hickok, G. (1999). Left temporal lobe supports sign language comprehension. *Cognitive Neuroscience Society Annual Meeting Program 1999*, 96.
- Pickell, H., Emmorey, K., Hickok, G., **Klima, E.**, & Bellugi, U. (2002). Clues from American Sign Language: The role of the right occipital lobe in language and non-language functions [Abstract]. *Academy of Aphasia Annual Meeting Abstracts*.
- Reilly, J., Bellugi, U., Losh, M., **Klima, E. S.**, (July, 1999). Narratives in Williams Syndrome: The Exploitation of Language for Social Purposes in Language in individuals with Williams syndrome - A crosslinguistic perspective. *Eighth International Congress for the Study of Child Language*, San Sebastian, Spain, pp. 295-296.
- Searcy, Y.M., Lincoln, A.J., Rose, F.E., Bavar, N., & **Klima, E.S.** (2002, July). On the relationship between age and IQ in Williams syndrome. [Abstract, Poster] *Williams Syndrome Association Professional Conference*, Long Beach, CA.
- Beret, N., Lai, Z.C., Hickok, G., Stiles, J., & **Klima, E.S.** (1997). "Spatial Integrative Deficits in Williams Syndrome: Comparison with Right Hemisphere Damage." In Poster Symposium "Bridging Cognition, Brain and Gene." *International Behavioral Neuroscience Society*, San Diego, CA.
- Clark, K., Love, T., Hickok, G., Emmorey, K., & **Klima, E.S.** (1997). "Effects of Right Hemisphere Lesions on Deaf Signers' Use of Linguistic Space." *International Behavioral Neuroscience Society*, San Diego, CA, April, 1997.
- Clark, K., Hickok, G., Love, T., **Klima, E.S.**, Bellugi, U. (1997). "Right Hemisphere Damage Aphasia in American Sign Language." Submitted, *Academy of Aphasia*, Philadelphia, PA.
- Hickok, G., Love, T., Clark, K., Kritchevsky, M., **Klima, E.S.**, & Bellugi, U. (1997). "Evidence for Modality Independent Cerebral Organization in Signed and Spoken Languages." *International Behavioral Neuroscience Society*, San Diego, CA.
- Losh, M., Reilly, J.S., Bellugi, U., Cassady, C., & **Klima, E.S.** (1997). "The Emergence of Evaluation in the Narrative Discourse of Children with Williams Syndrome." *Symposium for Research in Child Language Disorders (SRCLD)*, Madison, WI.
- Love, T., Hickok, G., Clark, K., Kritchevsky, M., Klima, E.S., & Bellugi, U. (1997). "Some Similarities in the Neural Organization of Signed and Spoken Language." *Cognitive Neuroscience Society*, Boston, MA.
- Bettger, J.G., van Hoek, K., O'Grady-Batch, L., **Klima, E.S.**, & O'Neill, N. (1996). "Acquisition of Reference Markers in ASL Narrative." *Boston University Language Development Conference*, Boston, MA.
- Emmorey, K., Hickok, G., & **Klima, E.S.** (1996). "The Neural Organization for Sign Language: Insights from Right Hemisphere Damaged Signers." *TENNET VII*, Montreal, Canada.
- Klima, E.S.**, & Bellugi, U. (1996). "Sign Language Structure and Brain Organization." Invited Presentation, *Carver Symposium: Thinking about the Brain (Vision, Concepts and Language)*, Iowa City, IA.
- Wilson, M., Bettger, J.G., Niculae, I., & **Klima, E.S.** (1996). "The Impact of Language Modality on the Structure of Short-Term Memory." *Fifth International Conference on Theoretical Issues in Sign Language Research*, Montreal, Canada.
- Bellugi, U., Jones, W., Harrison, D., Rossen, M., & **Klima, E.S.** (1995). "Discourse Functions in Two Genetically-Based Syndromes with Contrasting Brain Anomalies." *Society for Research in Child Development*, Indianapolis, IN.

- Bellugi, U., & **Klima, E.S.** (1995). "Neural and Cognitive Development in Deaf Children." CIBA Foundation Meeting on "Neural and Cognitive Plasticity in Early Childhood," London, England.
- Bettger, J.G., Ewan, B., Smith, C.L., & **Klima, E.S.** (1995). "Acquisition of Spatial Devices in American Sign Language as Evidenced by Sentence Repetition." Stanford Child Language Conference, Stanford, CA.
- Clark, K., Hickok, G., Batch, L., Bellugi, U., **Klima, E.S.**, & Kritchevsky, M. (1995). "Dissociations between Spatially Organized Discourse and Non-Language Spatial Cognition in American Sign Language Following Right Hemisphere Damage." Academy of Aphasia, San Diego, CA.
- Emmorey, K., Hickok, G., & **Klima, E.S.** (1995). "Difference in Mental Rotation within Linguistic and Nonlinguistic Domains: Evidence from an ASL Signer with Right Hemisphere Damage." Academy of Aphasia, San Diego, CA.
- Emmorey, K., Hickok, G., Bellugi, U., & **Klima, E.S.** (1995). "Recent Advances in Sign Language Aphasia." McDonnell-Pew Retreat for Cognitive Neuroscience, San Diego, CA.
- Hickok, G., Batch, L., Clark, K., Say, K., Bellugi, U., **Klima, E.S.**, & Kritchevsky, M. (1995). "Discourse Deficits in American Sign Language Following Right Hemisphere Damage." Meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Hickok, G., Kritchevsky, M., Bellugi, U., & **Klima, E.S.** (1995). "The Role of the Left Frontal Operculum in Sign Language Aphasia: Clues to the Function of Broca's Area." Academy of Aphasia, San Diego, CA.
- Bellugi, U., & **Klima, E.S.** (1994). "Language and Brain Organization." Invited presentation, Grand Rounds, Cornell University Medical Center, New York, NY.
- Bellugi, U., & **Klima, E.S.** (1994). "Language and Cognitive Development: Perspectives from Another Modality." Invited presentation, "Evolution and Neurology of Language", Fondation Pour L'Etude Du Systeme Nerveux Central Et Peripherique (FESN), Harvard Medical School, Boston, MA.
- Bellugi, U., & **Klima, E.S.** (1994). "Language, Cognition, and Brain Organization." Invited presentation, symposium, "Computation, Cognition, and Consciousness" International Institute for Advanced Studies, Keihanna Science City, Kyoto, Japan.
- Bellugi, U., Rossen, M., & **Klima, E.S.** (1994). "Towards a Cognitive Phenotype of Williams Syndrome." Presentation at symposium, "Building Bridges Across Disciplines: Cognition to Gene," International Professional Conference of Williams Syndrome Association, San Diego, CA.
- Harrison, D., Reilly, J.S., & **Klima, E.S.** (1994). "Unusual Social Behavior in Williams Syndrome: Evidence from Biographical Interviews." Presentation at symposium, "Building Bridges Across Disciplines: Cognition to Gene," International Professional Conference of Williams Syndrome Association, San Diego, CA.
- Hickok, G., **Klima, E.S.**, Kritchevsky, M., & Bellugi, U. (1994). "A Case of Sign Blindness Following Damage in Left Occipital Cortex in a Deaf Signer." Cognitive Neuroscience Society, San Francisco, CA.
- Reilly, J., Harrison, D., & **Klima, E.S.** (1994). "Emotional Talk and Talk about Emotions." Presentation at symposium, "Building Bridges Across Disciplines: Cognition to Gene," International Professional Conference of Williams Syndrome Association, San Diego, CA.
- Rossen, M.L., Jones, W., Wang, P., & **Klima, E.S.** (1994). "Face processing: Remarkable Sparing in Williams Syndrome." Presentation at symposium, "Building Bridges Across Disciplines: Cognition to Gene," International Professional Conference of Williams Syndrome Association, San Diego, CA.

- Bellugi, U., & **Klima, E.S.** (1993). Invited Presentation: "From Gene to Behavior: Evidence from Williams Syndrome." National Science Foundation Conference on the Biological Basis of Language, National Chung-Cheng University, Taiwan, Republic of China.
- Bellugi, U., & **Klima, E.S.** (1993). Invited Plenary Address: "Language, Spatial Cognition, and Neuronal Plasticity." European Neurosciences Association, Madrid, Spain.
- Bellugi, U., & **Klima, E.S.** (1993). Keynote Lecture: "Language Research: New Views of How the Brain Works." International Child Language Conference, Plymouth, England.
- Bellugi, U., & **Klima, E.S.** (1993). Invited Lecture: "Mapping Brain Function for Language: Evidence from Language in a Different Modality." Centro Nazionale de Recerche, Rome, Italy.
- Bettger, J.G., Bellugi, U., Kritchevsky, M., Say, K., & **Klima, E.S.** (1993). "Bi-manual Coordination Errors in American Sign Language Following Unilateral Hemispheric Damage." TENNET IV, Montreal, Canada.
- Emmorey, K., Bellugi, U., & **Klima, E.S.** (1993). Invited Presentation: "Neural Organization for Sign Language." At symposium, "Sign Language and Education of the Deaf," Sao Paulo, Brazil.
- Klima, E.S.** (1993). Address — Distinguished Scientific Contribution Award for 1992: "Neural Basis of Sign Language." American Psychological Association, Toronto, Canada.
- Klima, E.S.**, Kritchevsky, M., & Hickok, G. (1993). "The Neural Substrate for Sign Language." Presentation at symposium, "Neural Systems Underlying Spatial Language and Spatial Cognition." Academy of Aphasia, Tucson, AZ.
- Bellugi, U., Reilly, J., **Klima, E.S.**, & Wang, P. (1992). "Discourse Functions in Two Genetically-Based Syndromes with Contrasting Brain Anomalies." Presentation at symposium, "Discourse and Anomalous Brain Development," Academy of Aphasia, Toronto, Ontario, Canada.
- Bellugi, U., Singer, N.G., & **Klima, E. S.** (1992). "Early Trajectories of Language Development." Williams Syndrome Association National Convention, Chicago, IL.
- Klima, E.S.**, Kritchevsky, M., & Hickok, G. (1992). "Brain, Language and Modality." Presentation at symposium, "Neural Systems Underlying Spatial Language and Spatial Cognition," Academy of Aphasia, Toronto, Ontario, Canada.
- Bellugi, U., & **Klima, E.S.** (1991). Invited Seminar: "Language, Cognition, and the Brain." Cognitive Sciences Series, University of California, Berkeley.
- Bellugi, U., & **Klima, E.S.** (1991). "The Neural Basis of Sign Versus Gesture." Presentation at symposium, "Gesture and Sign." Cognitive Science Society, Chicago, IL.
- Bellugi, U., & **Klima, E.S.** (1991). Invited Lecture: "Spatial Cognition, Language and Brain Organization." International School of Neuroscience, Course in The Neuronal Basis of Cognitive Function, Padua, Italy.
- Karmiloff-Smith, A, Bellugi, U, **Klima, E.S.**, & Grant, J. (1991). "Language and Cognition: Case Studies of Children with Williams Syndrome." Presentation at symposium, "Language and Cognition: Normal and Handicapped Children." MRC Developmental Unit, London.
- van Hoek, K., & **Klima, E.S.** (1991). "Submorphemic Mappings Between Form and Meaning in Chinese Sign Classifiers." Linguistic Society of America, Chicago, IL.
- Bellugi, U., **Klima, E.S.**, & Doherty, S. (1990). "Learning Disabilities from the Perspective of Biological Foundations of Language and Cognition." Presentation at symposium, "The Construct of Learning Disabilities." NICHD and Johnson Foundation, Racine, WI.
- Klima, E.S.** (1990). Summary of Symposium: "Language, Modality and the Brain." Theoretical Issues in Sign Language Research, Boston, MA.



- Bellugi, U., Corina, D., Norman, F., **Klima, E.S.**, & Reilly, J. (1989). "Differential Specialization for Linguistic Facial Expression in Left and Right Lesioned Deaf Signers." Academy of Aphasia, Santa Fe, NM.
- Bellugi, U., & **Klima, E.S.** (1989). "New Perspectives on Language and Language Acquisition." Symposium, Society for Research in Child Development, Kansas City, KS.
- Bellugi, U., & **Klima, E.S.** (1989). Invited Symposium Presentation: "New Perspectives on Language and Language Acquisition." Society for Research in Child Development, Kansas City, KS.
- Bellugi, U., Poizner, H., & **Klima, E.S.** (1989). "Recognition in a Visuomotor Language." International Neuropsychological Society, Vancouver, BC, Canada.
- Fok, A., Bellugi, U., van Hoek, K., & **Klima, E.S.** (1989). "The Interplay Between Visuospatial Script and Visuospatial Language. Symposium on Cognition, Education and Deafness, Washington, DC.
- Klima, E.S.** (1989). "Modularity and Language Awareness." Presentation at symposium, "Modularity and the Motor Theory of Speech Perception." Yale University, New Haven, CT.
- Klima, E.S.** (1988). "Modularity Lessons from Sign Aphasia." Presentation, Istituto de Psicologia del CNR, Rome, Italy.
- Bellugi, U., Fok, Y.Y.A., & **Klima, E.S.** (1987). "Spatial Analysis of Dynamic Trajectories." Fourth International Conference on Psychological Aspects of the Chinese Language, Chinese University of Hong Kong, Hong Kong.
- Bellugi, U., **Klima, E.S.**, & Poizner, H. (1987). Invited Presentation: "Sign Language and Brain Organization." From Signal to Sense, Symposium of the Neurosciences Research Institute, Stockholm, Sweden.
- Bellugi, U., **Klima, E.S.**, & Tzeng, O.J.L. (1987). Invited Presentation at Symposium: "The Nonphonological Route to Reading." From Neuron to Reading, Florence, Italy.
- Fok, Y.Y.A., Bellugi, U., van Hoek, K., & **Klima, E.S.** (1987). Invited Presentation: "The Formal Properties of Chinese Languages in Space." International Conference on Psychological Aspects of the Chinese Language, Chinese University of Hong Kong, Hong Kong.
- Fok, Y.Y.A., & **Klima, E.S.** (1987). "Spatial Analysis of Dynamic Trajectories." Fourth International Conference on Psychological Aspects of the Chinese Language, Chinese University of Hong Kong, Hong Kong.
- Klima, E.S.** (1987). "Brain Organization for Visually Expressed Languages." Presentation, International Conference on Psychological Aspects of the Chinese Language, Chinese University of Hong Kong, Hong Kong.
- Bellugi, U., & **Klima, E.S.** (1986). Invited Presentation: "Sign Language and the Brain." At symposium: "Language, Communication and the Brain." Association for Research for Nervous and Mental Diseases, New York, NY.
- Bellugi, U., **Klima, E.S.**, Lillo-Martin, D., O'Grady, L., & Vaid, J. (1986). "Examining Language Dominance Through Hand Dominance." Boston University Conference on Child Language Development, Boston University, Boston, MA.
- Lillo-Martin, D., & **Klima, E.S.** (1986). "Pointing out Differences: American Sign Language in Syntactic Theory." Theoretical Issues in Sign Language Research, Rochester, New York.
- Bellugi, U., Poizner, H., & **Klima, E.S.** (1985). "The Structure of Sign Language." American Association for the Advancement of Science, Los Angeles, CA.
- Klima, E.S.**, & Bellugi, U. (1985). "Hand Preference and Language Lateralization in Users of a Manual Language." International Symposium on the Neural Aspects of Writing, University of Hong Kong, Hong Kong.

- Bellugi, U., & **Klima, E.S.** (1984). "Brain Organization in a Visual-Spatial Language." International Symposium on Psychological Aspects of Language, Hong Kong.
- Bellugi, U., Poizner, H., & **Klima, E.S.** (1984). "Syntax, Mapping and Space in Right Hemisphere Damaged Deaf Signers." Academy of Aphasia, Los Angeles, CA.
- Bellugi, U., Poizner, H., & **Klima, E.S.** (1983). "Brain Organization: Clues from Sign Aphasia." International Neuropsychology Society, Lisbon, Portugal.
- Klima, E.S.**, & Bellugi, U. (1983). Invited Presentation: "Brain Function and Sign Language." International Symposium on Sign Language Research, Rome, Italy.
- Bellugi, U., & **Klima, E.S.** (1982). Invited Presentation: "Apraxia and Aphasia in Sign Language." International Neuropsychological Symposium, Ravello, Italy.