

CURRICULUM VITAE (2013)

URSULA BELLUGI

Director, Laboratory for Cognitive Neuroscience
Professor, The Salk Institute for Biological Studies
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EDUCATION

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|--------------------|--------------------|-------|------|
| Harvard University | Cambridge, MA | Ed.D. | 1967 |
| Antioch College | Yellow Springs, OH | B.A. | 1952 |

PROFESSIONAL EXPERIENCE

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| The Salk Institute for Biological Studies | Director, Laboratory for Cognitive Neuroscience | 1970-forward |
| | Language and Cognitive Studies | |
| | Professor | 1981-forward |
| | Associate Professor | 1974-1981 |
| | Research Associate | 1969-1974 |
| | Member | 1968-1969 |
| San Diego State University | Adjunct Professor, Department of Psychology | 1995-forward |
| University of California, San Diego | Adjunct Professor, Department of Psychology | 1977-forward |
| Harvard University | Assistant Professor & Research Fellow | 1967-1968 |

PRESS RELEASES: (2003-2012)

Salk Institute Press Release (2003). Are There "Social Behavior" Genes? La Jolla, CA: Salk Institute.

Salk Institute Press Release (2006). Williams Syndrome, the Brain, and Music. La Jolla, CA.

Salk Institute Press Release (2007). Beyond nature vs. nurture: Williams syndrome across cultures. La Jolla, CA.

Scientific American Press Release. (2007). Genetic Interplay with Culture

Dobbs, D. (2007). The Gregarious Brain, The New York Times Magazine (pp. 42-47). New York.

NIDCD (2008). Dr. Ursula Bellugi Elected to the National Academy of Sciences

Haas et al. (2008). Williams Syndrome and Social Fearlessness.

Medical News Today (2009). Narrowing Search for Behavior- related Genes in People with WS.

Stanford (2009). Sociability Traced to Particular Region of Brain, Science Daily.

November 2012

Science Daily (2009). Two Genes Influence Social Behavior, Visual-Spatial Performance In People With Williams Syndrome

Science Daily (2009). Two Genes Influence Social Behavior, Visual-Spatial Performance In People With Williams Syndrome

Salk/Utah. (2009). The gregarious gene? "Everybody in the world is my friend"

Utah (2009). Gene ties trust hormone to Williams syndrome and autism.

UofU Healthcare (2009). Beautiful Interplay: How Genetic Disruptions Alter Brain Structures, Which Affects Behavior

UofU Healthcare (2010). Study of Williams Syndrome patients reveal specific gene roles in intelligence.

The Salt Lake Tribune. (2010). U. Scientist links one gene to intelligence

Science Daily (2010). Language as a Window Into Sociability

Stanford Report. (2010). Stanford scientists learn how brains process images of faces.

Salk Institute Press Release (2010). Language as a window into sociability. La Jolla, CA

Live Science (2010). Brains of Introverts Reveal Why They Prefer Being Alone

The Brain Institute (2010). Brain Institute Researcher Julie R. Korenberg, M.D, Ph.D. Explores the Genetic Role in Williams Syndrome.

Psychology Today (2010). Brain Sense. The Brain's Language Processing in Williams Syndrome and Autism

Salk Institute Press Release (2011). Unlocking the Mystery of Autism

Embraceable (2011), A film about Williams Syndrome, featuring the interview with Professor Ursula Bellugi. Directed by Jon Kent.

Nashville Scene (2011). In Embraceable, a rare disease makes people reach out to a world they can never fully join. Jon Kent

The Salk Institute (2011). NIH awards Salk Institute \$5.5 million grant to study Williams.

Williams Syndrome Web Watch (2011). Salk researcher get \$5.5 million grant to study Williams syndrome

CBS News (2011). Williams syndrome shows gene-behavior links: Key to autism?

CBS News (2011). Williams syndrome: One boy's inspiring story pictures

MSNBC Today Health (2011). Super-social gene may hold clues to autism, other disorders.

Scientific American. (2012). Jumping Genes in the Brain Are Tied to Autism Video.

University of Utah Health Care. (2012). Hormones, Music, and Human emotion.

Salk Institute. (2012). "Trust" hormone oxytocin found at heart of rare genetic disorder

The Salt Lake Tribune. (2012). Researchers use music to unlock the mystery of oxytocin.

AAAS Member Central. (2012). Study explores multiple roles of oxytocin.

HONORS AND AWARDS

Honorary Degree, Doctor of Science, Gallaudet University, Washington, DC, 2009.

National Academy of Sciences, Elected member, 2007.

American Academy of Arts and Sciences, Fellow, Elected 2007.

Distinguished Scientific Contribution Award. Shared with Edward S. Klima, presented at American Psychological Association, Toronto, Ontario.

IPSEN Prize in Neuronal Plasticity, IPSEN Foundation, Paris, France. Shared with Torsten Weisel and Wolfgang Singer, presented at International Brain Research Organization Conference, Montreal.

MERIT Award (two consecutive awards) from National Institute of Child Health and Human Development, for Grant Language, Modality, and the Brain, NIH, Bethesda, MD, 1988-1993; 1993-1998.

Javits Neuroscience Investigator Award, National Institute of Neurological Diseases and Stroke, continued as Pepper Award, National Institute on Deafness and Communication Disorders, for Grant Spatial Cognition and Spatial Language, National Institutes of Health, Bethesda, MD, 1985-1992.

Lifetime Achievement Award presented by The National Williams Syndrome Association at the National/International WSA Conference, Long Beach, CA

The Dana Alliance for Brain Initiatives, Member 1993-Present.

Society of Neurosciences, Special Presidential Lecture.

Neurosciences Research Program, Elected Associate, Neurosciences Research Institute, San Diego, CA.

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

Distinguished Woman of the Decade Award, Los Angeles.

Medical Award for Research, The Orton Society.

Theoretical Issues in Sign Language Research, Conference "In Honor of Ursula Bellugi and Edward Klima," Boston, MA,

American Psychological Association, Fellow, Division of Experimental Psychology; Fellow, Division of General Psychology. American Psychological Society, Fellow.

Institute of Molecular Medicine, UCSD/The Salk Institute, Member

Principal Investigator, Grants from National Institutes of Health (National Institute for Neurological Diseases and Stroke, National Institute of Child Health and Human Development, National Institute on Deafness and Communication Disorders), and National Science Foundation. March of Dimes, Axe Houghton Foundation, MacArthur Foundation, and James S. McDonnell Foundation.

National Institutes of Health, National Institute of Mental Health, Guest Researcher, Laboratory of Brain and Cognition with Leslie Ungerleider, to-present.

PROFESSIONAL

The Salk Institute for Biological Studies. Systems Neurosciences Laboratories, Seminar Committee; Neurosciences Committee; Chairman, Committee on Biology and Language; Senior Research Faculty; Neurosciences Research Group. Chairman, Seminar Committee, Board of Trustees, The Salk Institute for Biological Studies, 1982-1990.

Governing Board, Institute for Neural Computation, Cognitive Neuroscience Group, and Training Grant, 1998- present.

Governing Board, McDonnell-Pew Center for Cognitive Neurosciences at San Diego, 1990-1998; Chairman of Seminar Committee, 1990-1998.

Functional Magnetic Resonance Imaging, Research Committee, The Salk Institute for Biological Studies and the University of California, San Diego, 1997-Present.

Sloan Center for Theoretical Neurobiology, Honorary Member, The Salk Institute for Biological Studies

Neuroscience Program, Faculty Member, Department of Neurosciences, School of Medicine, University of California, San Diego.

Cognitive Sciences Program, Associate, University of California, San Diego.

Clinical Psychology, Joint Doctoral Program, University of California, San Diego and San Diego State University, Advisory Board and Faculty for Graduate Group.

Communication Disorders, Joint Doctoral Program, University of California, San Diego and San Diego State University, Governing Board and Faculty.

Institute for Neural Computation, Faculty Member, University of California, San Diego.

Center for Human Information Processing, Associate, University of California, San Diego.

Center for Research in Language, Advisory Board & Member, University of California, San Diego.

Project in Cognitive and Neural Development, Member, University of California, San Diego.

Program in Human Development, Faculty Member, University of California, San Diego.

National Institutes of Health, National Institute on Deafness and Communication Disorders, Advisory Council Member, 1989-1994; Planning Committee of Advisory Council, 1993-94; Research Committee of Advisory Council, NIDCD, 1989-; Task Force for National Strategic Research Plan, NIDCD; Consultant for Update of National Strategic Research Plan, NIDCD,

National Institutes of Health, Behavioral and Neurosciences Fellowship Panel, 1981-1985.

National Institutes of Health, Human Development Study Section, 1975-1979.

National Science Foundation, Oversight Committee, 1989.

MacArthur Brain Bases of Behavior Seminar Series, Chair of Seminar Committee, 1985-1994.

University of Hong Kong, Visiting Professor, since 1983.

Consiglio Nazionale delle Ricerche, Rome, Italy, Visiting Professor.

National Aphasia Association, Advisory Board, New York, NY.

Linguistic Society of America, Technical Committee on Language and Cognitive Development;
Committee on Clinical Linguistics.

National Advisory Committee on Education of the Deaf, Department of Health, Education, and
Welfare.

Institute of Cognitive and Decision Sciences, Advisory Committee, University of Oregon.

Williams Syndrome Association, Professional Advisory Board; Medical Advisory Board.

PROFESSIONAL SOCIETIES

Academy of Aphasia; Academy of Neurology; American Academy of Arts and Sciences;
American Psychological Association; American Psychological Society; American Speech-
Language-Hearing Association; Down Syndrome Association; European Brain and Behavior
Society; International Association for the Study of Child Language; International Brain
Research Organization; International Neuropsychological Society; International Society for
Women in Cognitive Neuroscience; Linguistic Society of America; National Academy of
Sciences; National Aphasia Association; National Association of the Deaf; Psychonomic
Society; Society for Research in Child Development; San Diego Neuropsychological Society;
Society for Neurosciences; European Society for Neurosciences; Williams Syndrome
Association; World Federation of Neuroscientists, among others.

EDITORIAL BOARDS AND REVIEWS (available on request)

CONFERENCES AND SYMPOSIA ORGANIZED

Williams Syndrome Association Regional Conference, La Jolla, CA, 2011

Professional Conference for National Williams Syndrome Association, Co-Organizer, Garden
Grove, CA, 2008

Society for Neurosciences, Poster Symposium: Genes, Neural Systems and Social Behavior,
San Diego, 2007.

Symposium on Research Update for Families, Canadian Association for Williams Syndrome:
Calgary, Canada, 2005.

Society for Neurosciences, Poster Session from Williams Syndrome: Bridging Cognition, Brain
and Genes, San Diego, CA, 2004.

Professional Conference for National Williams Syndrome Association at International
Conference, Co-Organizer, Michigan, 2004.

Genetic Contributions to Human Social Cognition: The Impact of the Williams Syndrome Mutations, Eight symposia, as part of a James S. McDonnell Foundation Collaborative Activity Award Bridging Mind, Brain and Behavior, Ursula Bellugi, Program Director, 2002-2006.

The Cognitive, Neural and Genetic Bases of Social Behavior, Eight panel meetings for the James S. McDonnell Foundation, as part of a series for new directions in cognition, brain and gene, Ursula Bellugi, Program Director, 1998-2001.

Journey from Cognition to Brain to Gene: Perspectives from Williams syndrome, Satellite Symposium, Society for Neuroscience, San Diego, November, 2001

Gene, Brain and Cognition. Symposium for the McDonnell-Pew Annual Program of Centers for Cognitive Neuroscience, Montreal, Canada, June, 1998.

Bridging Cognition, Brain and Gene: Evidence from Williams Syndrome. Symposium, Cognitive Neurosciences Society, San Francisco, CA, April, 1998.

Williams Syndrome: A Window to the Architecture of Mind and Brain. Symposium, Canadian Williams Syndrome Association, Vancouver, Canada, August, 1997.

Bridging Cognition, Brain and Gene. Symposium, for International Behavioral Neuroscience Society, San Diego, CA, 1997.

Brain Imaging: Quantitative Computer Graphic Analysis of Magnetic Resonance Images. Conference, sponsored by McDonnell-Pew Center for Cognitive Neuroscience, 1994.

Williams Syndrome: Building Bridges Across Disciplines. Professional Conference, National Williams Syndrome Association, San Diego, CA, 1994.

Neural Systems Underlying Spatial Language and Spatial Cognition. Symposium, Academy of Aphasia, Tucson, AZ, 1993.

Two Genetic Syndromes of Contrasting Cognitive Profiles: A Neuropsychological and Neurobiological Dissection. Symposium, American Psychological Society, San Diego, CA, 1992.

Brain Bases and Development of Faces. Conference, sponsored by McDonnell-Pew and MacArthur Foundation, The Salk Institute, San Diego, CA, 1991.

Language, Modality and the Brain. Symposium, Theoretical Issues in Sign Language Research, Boston, MA, 1990.

Neural Correlates of Dissociations of Higher Cortical Functioning in a Neurodevelopmental Disorder. Symposium, International Neuropsychological Society, Vancouver, BC, Canada, 1989.

Neurobiology: Brain and Cognitive Development. Conference, sponsored by the MacArthur Research Foundation Network, San Diego, CA, 1988.

A Dramatic Dissociation between Language and Cognition. Symposium, California Psychological Association, San Diego, CA, 1987.

Magnetic Resonance Imaging of the Human Brain. Neurosciences Conference Center, The Salk Institute, San Diego, CA, 1987.

Brain Organization Underlying Unusual Language and Cognitive Functions. Symposium, Western Psychological Association, Long Beach, CA, 1987.

Language and Visuospatial Functions in Children with Williams Syndrome. Symposium, American Speech-Language-Hearing Association, Washington, DC, 1985.

Cross Language Grammatical Processing in Aphasia. Conference, sponsored by Sloan Foundation, Paris, France, 1985.

The Development of Spatial Cognition. Conference, sponsored by the MacArthur Research Foundation Network, Neurosciences Conference Center, The Salk Institute, San Diego, CA, 1984.

Signed and Spoken Language: Biological Constraints on Linguistic Form. Dahlem Workshop, Berlin, Germany, 1980.

ACTIVE GRANTS

- 2011-2016 National Institutes of Health (NICHD) (P01 HD33114), Williams Syndrome: A Model for Linking Genes, Neural Systems, and Social Phenotype. Ursula Bellugi, Program Director of Program Project and Principal Investigator, Project V. Characterization of Social Phenotype; and Principal Investigator, Core A Administration, Data Management, Integration & Core B Participant Services, Diagnostic and Cognitive Testing, Biological Tissue Collection.
- 2011-2016 National Institute of Health (NICHD) (R01 DC011538), Neural Basis of Gestural Communication: Evidence from Sign Language. Ursula Bellugi, Program Director/Post-Investigator.
- 1995-2009 National Institutes of Health (NICHD) (P01 HD33113-year 13), Williams Syndrome: Bridging Cognition and Gene. Ursula Bellugi, Program Director of Program Project and Principal Investigator, Project I. Neurocognitive Characterization of Williams Syndrome; and Principal Investigator, Core A Administration and Statistical Core & Core B Diagnostic Core.
- 1984-2013 National Institutes of Health (NINDS) (NS22343-year 21) Center for the Study of the Neurobiological Basis of Language. Ursula Bellugi, Principal Investigator of Project 3. Developmental Profiles of Williams Syndrome Children. Renewed.
- 1982–2009 National Institutes of Health (NIDCD) (R01 DC00201-year 23). Ursula Bellugi, Principal Investigator. Brain Organization: Clues from Sign Aphasia, Renewal Pending.
- 1982-2009 National Institutes of Health (NICHD) (HD13249-year 19) Language, Modality and the Brain, Ursula Bellugi, Co-Principal Investigator.

Previous Grants

- 2002-2006 James S. McDonnell Foundation. A Window into Social Cognition: The Impact of the Williams Syndrome Mutations on Neural Organization and Brain Function, Collaborative Activity Award Bridging Mind, Brain and Cognition. Ursula Bellugi, Program Director; and Principal Investigator, Project I. Social Cognition in Williams Syndrome, Co-Principal Investigator, Project II: Genetic Contributions to Human Social Cognition (with Julie Korenberg), Co-Principal

Investigator, Project IV: Brain Imaging in Williams Syndrome (with Marc Raichle). Extended through 2007.

- 1998-2001 James S. McDonnell Foundation. Ursula Bellugi, Principal Investigator. Study Panel and Pilot Studies: Cognitive, Neural and Genetic Bases of Social Behavior.
- 1997-2002 National Institutes of Health (NIDCD). Neural Correlates of Lexical Processing — English and ASL (P50 DC03189). Principal Investigator, Project 2: Neural Systems Underlying Lexical Retrieval of ASL Signs.
- 1988–1999 National Institutes of Health (NICHD) (HD13249) Language, Modality and the Brain. MERIT Award Twice (NICHD), Method for Extending Research in Time, Principal Investigator.
- 1985-2000 National Institutes of Health (NINDS). (P50 NS22343). Co-Investigator. Multidisciplinary Center for the Study of the Neurological Basis of Language, Learning and Behavior Disorders. 1985-1988: Principal Investigator, Neuropsychological and Neurobiological Basis of Williams Syndrome. 1985-1990: Co-Investigator, Language and Spatial Cognition in Children with Localized Lesions. 1991-1996, Renewed 1996-2000: Principal Investigator, Project 3: Development of Language and Cognition in Williams Syndrome.
- 1991-2000 National Institutes of Health (NIDCD). (P50 DC01289). Co- Investigator, Origins of Communication Disorders. 1991-1995, Renewed 1996-2000: Principal Investigator, Project 3: Origins of Communication Disorders in Williams Syndrome.
- 1971-1997 National Institutes of Health (NINDS, NIDCD). Principal Investigator, 1971-1985, The Acquisition of Sign Language and Its Structure. Javits Neurosciences Investigator Award from NINDS, continued as Pepper Award, NIDCD. Extended, 1985-1992; Renewed, 1992-1997: Spatial Cognition and Spatial Language (R01 DC 00146).
- 1990-1995 National Institutes of Health (NICHD). Principal Investigator, (R01 HD26022). Fractionations between Language and Cognition.
- 1991-1994 National Institutes of Health (NINDS). Co-Investigator, with Edward S. Klima, Anatomical Basis of Language.
- 1979-1993 National Institutes of Health (NICHD). Principal Investigator, 1974-1988, Psycholinguistics of American Sign Language.
- 1974-1992 National Science Foundation. 1974-1978: Principal Investigator, Formational Constraints on a Language in a Visual Mode. Continued, 1978-1986, as The Structured Use of Space and Movement. In 1986-1989, became Co-Investigator. Renewed, 1989-1992 (BNS89-11486).
- 1982-1992 MacArthur Foundation Network Grant. Co-Investigator, The Transition from Infancy to Early Childhood. The Development of Spatial Cognition Workshop, Neurobiology: Brain and Cognitive Development Conference; Brain Basis and Development of Faces Workshop; Magnetic Resonance Imaging of Human Brain Workshop, and Brain Basis of Behavior Seminar Series.

- 1985-1991 Axe Houghton Foundation. 1985-1987: Principal Investigator, Sign, Script and Speech. 1987-1991. Principal Investigator, Biological Basis of Cognitive Activity.
- 1989-1990 National Science Foundation. Principal Investigator, Dissociations between Language and Cognition: Evidence from a Neurodevelopmental Disorder.
- 1986-1988 March of Dimes Foundation. Principal Investigator, Cognitive and Neuropsychological Features of Williams Syndrome. Co-Investigator, Gene Coding in Williams Syndrome.

PUBLICATIONS

BOOKS

Bellugi, U. & St. George, M. (Eds.) *Journey from cognition to brain to gene: New perspectives from Williams Syndrome*. Cambridge, MA: MIT Press, 2001.

Poizner, H., Klima, E.S., & **Bellugi, U.** *What the Hands Reveal about the Brain*. Cambridge, MA: MIT Press/Bradford Books, 1987; Paperback edition. —German Translation: *Was die Hände über das Gehirn verraten*. Hamburg: Zentrums Verlag Signum, 1990. — Japanese Translation, Tokyo: Shinyosha Press, 1996.

Klima, E.S., & **Bellugi, U.** *The Signs of Language*. Cambridge, MA: Harvard University Press, 1979. —Paperback Edition, 1988; —Reprinted, 1995.

(Award from Association of American Publishers for Most Outstanding Book in the Behavioral Sciences).

Stiles-Davis, J., Kritchevsky, M., & **Bellugi, U.** (Eds.). *Spatial Cognition: Brain Bases and Development*. Hillsdale, NJ: Lawrence Erlbaum Associates, 1988.

Bellugi, U., & Studdert-Kennedy, M. (Eds.). *Signed and Spoken Language: Biological Constraints on Linguistic Form*. Dahlem Konferenzen. Weinheim/Deerfield Beach, FL: Verlag Chemie, 1980.

Bellugi, U., & Brown, R. (Eds.). *The Acquisition of Language*. Chicago, IL: The University of Chicago Press, 1971. —Originally published as Monograph of the Society for Research in Child Development, 1964, 29(1).

SELECTED ARTICLES, CHAPTERS AND ABSTRACTS

2013.

Collette, J. C., Chen, X.-N., Mills, D.L., Galaburda, A.M., Reiss, A.L., **Bellugi, U.**, & Korenberg, J.R. (2013). Williams syndrome: Gene expression is related to parental origin and regional coordinate control. *Journal of Human Genetics*, 54(4), 193-8. PMID: PMC3556903 [Pubmed](#)

Jarvinen, A, Korenberg, J.R., & **Bellugi, U.** (2013). The Social Phenotype of Williams Syndrome. *Current Opinions in Neurobiology*.

2012.

Bellugi, U., Moutri, A.R., Gage, F., Semendeferi, K., Halgren, E., Korenberg, J.R. (2012). Overview of the Program Project: Williams Syndrome: A Model for Linking Genes, neural Systems, and Social Phenotype. [Abstract] *13th International Williams Syndrome Professional Conference*. Boston, MA.

Bellugi, U., Dering, B., Moutri, A., Gage, F., Semendeferi, K., Stefanacci, L., Korenberg, J., & Dai, L. (2012). William Syndrome: A Model for Linking Genes, Neural Systems, and Social Phenotype. [Abstract and Poster] *Society for Social Neuroscience Symposium*. New Orleans, LA.

Arnold, A., Lai, P., Ng, R., Järvinen-Pasley, A., Benjamin Dering¹, **Bellugi, U.**, Trauner, D. (2012). Behavioral Identification of Emotional Visual and Auditory Stimuli in Children with Williams Syndrome and High Functioning Autism. [Abstract and Poster]. *Southern California Cognitive Neuroscience Meeting*. San Diego, CA.

Arnold, A., Brown, T., Erhart, M., **Bellugi, U.** & Halgren, E. (2012). Aberrant Basal Ganglia Morphology in Williams Syndrome: Implications for Dysregulated Motor and Social Behavior. [Abstract and Poster]. *Society for Social Neuroscience*. New Orleans, CA.

Dai, L., Carter, C.S., Ying, J., **Bellugi, U.**, Pournajafi-Nazarloo, H., & Korenberg, K. (2012). Oxytocin and vasopressin are dysregulated in Williams syndrome, a genetic disorder affecting social behavior. *PLoS One*, 7(6): e38513. PMID: PMC3373592 [PubMed](#)

Fillet, P., Lai, P., Searcy, Y., Chen, L., Reilly, J. & **Bellugi, U.**, (2012). Evaluation of Empathy in Williams Syndrome: The Salk Institute Sociability Questionnaire. [Abstract and Poster] *Society for Social Neuroscience*. New Orleans, LA.

Fishman, I., Ng, R., & **Bellugi, U.** (2012). Neural processing of race by individuals with Williams syndrome: Do they show the other-race effect? (And why it matters). *Social Neuroscience*, 7(4): 373-84. NIHMSID: NIHMS390786 [PubMed](#)

Fu, T., Lincoln, A., Bellugi, U., and Searcy, Y. (2012). The Association of Intelligence, Visual-Motor Functioning, and Personality Characteristics with Adaptive Behavior in Individuals with Williams Syndrome. [Abstract and Poster]. *American Psychological Association Convention*. Orlando, FL.

Järvinen, A., Dering, B., Neumann, D., Ng, R., Crivelli, D., Grichanik, M., Lai, P., Arnold, A., Korenberg, J.R., and **Bellugi, U.** (2012, in press). Sensitivity of the Autonomic Nervous System to Visual and Auditory Affect across Social and Non-social Domains in Williams Syndrome. *Frontiers in Psychology*, Defining Social Phenotypes in Neurodevelopmental Disorders.

Haas, B.W., Hoeft, F., Barnea-Goraly, N., Golarai, G., **Bellugi, U.**, & Reiss, A. (2012). Preliminary evidence of abnormal white matter related to the fusiform gyrus in Williams syndrome: A diffusion tensor imaging tractography study. *Genes Brain Behavior*, 11: 62-68.

- Hoefl, F., Dai, L., Haas, B., Sheau, K., Masaru, M., Mills, D., Galaburda, A., Bellugi, U., Korenberg, J.R., and Reiss, A. (2012, submitted). Mapping Gene-Brain Behavior Relationships of Social Behavior and Visuo-Motor Integration in Atypical Deletion Williams Syndrome. *PLOS Biology*.
- Lai, P., Wong, W., Reilly, J., & **Bellugi, U.** (2012). Language and Sociability in Children with High Functioning Autism and Williams Syndrome During the Cookie Theft Picture Description Task. [Abstract and Poster] *Society for Neuroscience*. New Orleans, LA.
- Lai, P., Wong, W., Reilly, J., & **Bellugi, U.** (2012). Language and Sociability in Children with High Functioning Autism and Williams Syndrome During the Cookie Theft Picture Description Task. [Abstract and Poster] *Society for Social Neuroscience*. New Orleans, LA.
- Lai, P., Ignacio, M., Lai, J., Gonzalez, C., Cornelius, K., Ng, R., Searcy, Y., Fenson, J., **Bellugi, U.**, Reilly, J. (2012). Social Phenotypes of Children with High Functioning Autism and Children with Williams Syndrome. [Abstract and Poster] *SDSU Student Research Symposium*. San Diego, CA.
- Lai, P., Ignacio, M., Lai, J., Gonzalez, C., Cornelius, K., Ng, R., Searcy, Y., Fenson, J., **Bellugi, U.**, Reilly, J. (2012). Social Phenotypes of Children with High Functioning Autism and Children with Williams Syndrome. [Abstract and Poster] *Southern California Cognitive Neuroscience Meeting*. San Diego, CA.
- Ng, R., Dering, B., & Bellugi, U. (2012, under review). Anxiety in Williams syndrome: Characterizing anxiety in Williams syndrome. *Journal of Psychiatric Research*.
- Ng, R., Fillet, P. & **Bellugi, U.** (2012). Intentional vs White Lies: Social Informational Processes on Approach Behaviors in Williams Syndrome [Abstract and Poster]. *Southern California Cognitive Neuroscience Meeting*. San Diego, CA.
- Ng, R., Järvinen-Pasley, A.M., Trauner, D. & **Bellugi, U.** (2012). How different are they? Sociability, Temperament, and Executive Function in Williams Syndrome versus Autism. [Abstract and Poster] *The Society for Personality and Social Psychology*; San Diego, CA.
- Ng, R. Järvinen-Pasley, A.M., Grichanik, M., Pollock, C. & **Bellugi, U.** (2012). Emotion Discrimination in Williams Syndrome: Evidence of Social Bias Across Sensory Modalities. [Abstract]. *Society for Neuroscience*. New Orleans, LA.
- Ng, R., Järvinen-Pasley, A.M., Trauner, D. & **Bellugi, U.** (2012). Attentional Bias in Emotion Processing Reflect Social Phenotypes of Williams Syndrome and Autism. [Abstract and Poster] *13th International Professional Conference on Williams Syndrome*. Boston, MA.
- Ng, R., Lai, P., Levitin, D., Bellugi, U. (2012, under review). Musicality and Emotionality in Williams Syndrome. A Preliminary Study: Musicality Correlates Social-Emotionality in Williams Syndrome. *Journal of Mental Health Research in Intellectual Disabilities*.
- Polse, L., **Bellugi, U.**, & Reilly, J.S. (2012, submitted) Single World Reading in Children with Williams Syndrome and High Functioning Children with Autism: A Study of Contrasts. *Journal of Development and Psychopathology*.
- Rogalsky, C., Hickok, G. Tomkovicz, V., Batch, C. O., Damasio, H., & **Bellugi, U.** (2012). Sign Language Comprehension & the Neural Basis of Action Understanding: a lesion study. [Abstract and Poster] *Academy of Aphasia*. San Francisco, CA.

Stiles, Reilly, Levine, Trauner, Nass. Neural Plasticity and Cognitive Development: Insights from Children with Perinatal Brain Injury. Chapter 8: Later Language Development: Syntax and Discourse. Oxford University Press.

2011.

Bellugi, U., Korenberg, K., Muotri, A., Gage, F., Semendeferi, K., Halgren, E., & Sejnowski, T. (2011). Creating the Dream: The lifelong journey with Williams syndrome. *Williams Syndrome Association Regional Conference, La Jolla, CA*.

Bellugi, U., Klima, E.S., & Hickok, G.H. (2011). Brain organization: Clues from deaf signers with left or right hemisphere lesions. In L. Clara (Ed.), *Gesture and Word*. Lisbon, Portugal. In press.

Dai, L., Carter, C.S., **Bellugi, U.**, Pournajafi-Nazarloo, H., & Korenberg, K. (2011, submitted). Social neuropeptides oxytocin and vasopressin a dysregulated in Williams syndrome.

Fishman, I., Ng, R., & **Bellugi, U.** (2011). Do extraverts process social stimuli differently from introverts? *Cognitive Neuroscience*, 2(2), 67-73. PMID: PMC3129862

Fishman, I., Yam, A., **Bellugi, U.**, Lincoln, A., & Mills, D. (2011). Contrasting patterns of language-associated brain activity in Autism and Williams syndrome. *Social Cognitive and Affective Neuroscience*, 6(5), 630-8. PMID: PMC319023

Fishman, I., Yam, A., **Bellugi, U.**, & Mills, D. (2011). Language and sociability: Insights from Williams syndrome. *Journal of Neurodevelopmental Disorders*, 3(3), 185-192. PMID: NIHMS326696

Greenspan, R., Wagner, J., **Bellugi, U.** (2011). A Drosophila Model of Williams Syndrome. [Poster] *American Neurological Association 136th Annual Meeting*; San Diego, CA.

Hickok, G. & **Bellugi, U.** (2011). Neural Organization of Language: Clues from Sign Language Aphasia. In J. Guendouzi, F. Loncke, & M. Williams (Eds.), *The Handbook of Psycholinguistic & Cognitive Processes: Perspectives in Communication Disorders*. Taylor & Francis. In press.

Hickok, G., Rogalsky, C., Tomkovicz, V., Batch, L., Damasio, H., & **Bellugi, U.** (2011). Neural Basis of Action Understanding: Evidence from Sign Language Aphasia. *Society for the Neurobiology of Language*; Annapolis, MD.

Lam, A., Ohayon, E.L., Webb, S.M., Semendeferi, K., & **Bellugi, U.** (2011). Shining the light on brain structure in Williams syndrome using synchrotron-based x-ray fluorescence imaging. *SoCal Cognitive Neuroscience*; Irvine, CA.

Lam, A., Ohayon, E.L., Webb, S.M., Semendeferi, K., & **Bellugi, U.** (2011). Macro and microprobe X-ray fluorescence analysis of elemental distribution in Williams syndrome neuronal tissue. [Abstract and Poster] *Society for Neuroscience*; Washington, DC.

Mills, D., Dai, L., Yam, A., Fishman, I., **Bellugi, U.**, Reiss, A., & Korenberg, J. (2011, paper in progress). Genetic mapping of brain activity in Williams Syndrome: ERP markers of atypical face and language processing across development. *Developmental Neuropsychology*.

Ng, R., Järvinen-Pasley, A.M., & **Bellugi, U.** (2011). Cognitive Ability Correlates of Psychiatric and Social Behaviors in Williams Syndrome. *American Neurological Association*, San Diego, CA.

- Ng, R., Järvinen-Pasley, A.M., & **Bellugi, U.** (2011). Orthographic and Semantic Processing in Autism and Williams Syndrome. [Abstract and Poster #234] *American Speech-Language-Hearing Association*, San Diego, CA.
- Ng, R., Järvinen-Pasley, A.M., & **Bellugi, U.** (2011). Relationship of language comprehension with anxiety and sociability in Williams syndrome. *Cognitive Neuroscience Society Annual Meeting*; San Francisco, CA.
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- Bellugi, U.** (1968). Linguistic mechanisms underlying child speech. In E. Zale (Ed.), *Language and language behavior* (pp. 36-50). New York: Appleton-Crofts.
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- Bellugi, U.** (1966). Development of interrogative structures in children's speech. *Symposium on Development of Language Functions*. Ann Arbor, MI: University of Michigan Press.
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- Brown, R., Fraser, C., & **Bellugi, U.** (1964). Explorations in Grammar Evaluation. *Monographs of the Society for Research in Child Development*, 29, 79-92. (PMID: 14125367)
- Brown, R., Fraser, C., & **Bellugi, U.** (1963). Control of grammar in imitation, comprehension, and production. *Journal of Verbal Learning and Verbal Behavior*, 2(2), 121-135.
- Crandall, V.J., & **Bellugi, U.** (1956). Rating personal adjustment through an analysis of social reinforcements. *Journal of Consulting Psychology*, 20(1), 49-52. (PMID: 13295431)
- Crandall, V.J., & **Bellugi, U.** (1954). Some relationships of interpersonal and intra-personal conceptualizations to personal-social adjustment. *Journal of Personality*, 23(2), 224-32. (PMID: 13222230)

SELECTED SYMPOSIA, KEYNOTES, NAMED LECTURES SINCE 1990

- Bellugi, U.**, Korenberg, K., Muotri, A., Gage, F., Semendeferi, K., Halgren, E., & Sejnowski, T. Keynote Presentation: *Creating the Dream: The lifelong journey with Williams syndrome*. Williams Syndrome Association Regional Conference, La Jolla, CA. 2011.
- Bellugi, U.** Norman Geschwind Distinguished Lecture, International Dyslexia Association, Dallas, 2007.
- Bellugi, U.** Invited speaker for the *Advisory Council, National Institute on Child Health and Human Development*, Bethesda, MD. 2005.
- Bellugi, U.**, Language, Modality and the Brain. Invited keynote, *American Speech and Hearing Association*, San Diego: CA. 2005.
- Bellugi, U.** *Brain Organization: Clues from Sign Aphasia*. Invited keynote speaker for Brain and Language Series, Lisbon, Portugal, 2005.
- Bellugi, U.** *Genes, Brain and Behavior*. Invited Speaker at RIKEN Brain Science Institute (BSI), Japan, 2005
- Bellugi, U.** *Affect, social behavior and genes in Williams syndrome*. Invited speaker at the Wisconsin Symposium on Emotion: Genes, brain and emotion, Madison, WI, 2005.
- Bellugi, U.** *Dissecting behavioral phenotypes: Evidence from genetic syndromes*. Invited speaker at Symposium for the World Congress on Chromosome Abnormalities, San Antonio, TX, 2004.
- Bellugi, U.** *Journey from cognition to brain to gene: Perspectives from Williams syndrome*. Invited speaker at the International Meeting of the European Convention on Williams syndrome, Rome, Italy, 2004.
- Bellugi, U.** *Towards linking cognition, brain and gene: Evidence from Williams Syndrome*. Symposium *Advances in Neurosciences* sponsored by Glaxo Smith Kline, Lisbon, Portugal, 2004.
- Bellugi, U.** *MIND Institute Distinguished Speaker, Towards Linking Cognitive Functions, Neural Systems and Genetics, MIND Institute*, Sacramento, CA., 2003.
- Bellugi U.** and Klima, E.S. *Keynote: Neurodevelopmental Disorders* , Portofino, Italy, 2002.
- Bellugi, U.** *Keynote Lecture and Public Lecture, Center for Cognitive Science*, Budapest, Hungary, 2002
- Bellugi U.** and Klima, E.S. *The Hebb Lecture, McGill University*, Montreal, Canada, 2001
- Bellugi U.** *NIH Public Symposium on Developmental Disorders and Language*, Invited Speaker, NIDCD, NICHD, NINDS, Bethesda, Md. 2001.
- Bellugi U.** *Invited Speaker in Series on Brain and Behavior Relationships, American Speech and Hearing Association*, New Orleans, LA, 2001.
- Bellugi, U.** *Keynote Lecture, American Society for Neurorehabilitation*, San Diego, CA, 2001
- Bellugi, U.** *Invited Lecture at Symposium, Neurobiology: From Genes to Thought, EMBL*. Heidelberg, 2000.
- Bellugi, U.** *Presidential Symposium on Development, Human Brain Mapping*, Austin, TX, 2000.
- Bellugi, U.** *Keynote Lecture, Cognitive Sciences Symposium*, Taipei, Taiwan, 2000

- Bellugi, U.** *Invited Address*, International Williams Syndrome Conference, Rome, Italy, 1999
- Bellugi U.** *NIMH Public Lecture: series on Neuroimaging: Glimpses into the Working Brain*, for Brain Awareness Week, Bethesda, Md. 1999.
- Bellugi, U.** *Mildred Trotter Named Lecture*, Linking cognition, brain and gene Washington University School of Medicine, St. Louis, MO, 1998.
- Bellugi, U.** *Symposium lecture*, Cognitive Neuroscience Society Annual Meeting, San Francisco, CA, 1998.
- Bellugi, U.** *Invited Presentation* in symposium, “Introduction to developmental disorders.” Federation of American Societies for Experimental Biology, San Francisco, CA 1998.
- Bellugi, U.** *Presentation in Symposium, Genes, Brain and Cognition* McDonnell-Pew Program in Cognitive Neuroscience Annual Meeting, Montreal, Quebec, Canada, 1998.
- Bellugi, U.** *Kaynote Grass Foundation Lecture*, Sponsored by Society for Neurosciences, , Neuroscience Day, School of Medicine, Miami, FL, 1997.
- Bellugi, U.**, & Klima, E.S. *Invited presentation*. International Symposium on Neural Regeneration in Humans, Asilomar, CA, 1997.
- Bellugi, U.** *Plenary Lecture*, International Conference on Mental Retardation: Genes, Brain and Behavior, New York, 1997.
- Bellugi, U.** *Invited Presentation*, CIBA Foundation, London, UK, 1996.
- Bellugi, U.** *Invited Presentation*, Cognitive Neuroscience and Neurodevelopmental Disorders: Conceptual and Methodological Challenges, National Institutes of Health, Bethesda, MD, 1996.
- Bellugi, U.** & Galaburda, A. *Invited Presentation*, IPSEN Foundation, Behavioral Neurology Circle, Fontainebleau, France, 1995.
- Bellugi, U.** *Invited Presentation*,. Scientist to Scientist Colloquium, Keystone, CO, 1995.
- Bellugi, U.** *Invited Presentation*.. Brain Sciences Center Seminar, University of Minnesota, Minneapolis, MN, 1995.
- Bellugi, U.**, & Klima, E.S. *Invited Presentation*,. CIBA Foundation Meeting on Neural and Cognitive Plasticity in Early Childhood. London, England, 1995.
- Bellugi, U.** *Invited Presentation* at Symposium, The Brain: From Molecules to Cognition, Brandeis University National Center for Complex Systems, Waltham, MA, 1994.
- Bellugi, U.** *Named Lecture: The Dearden-Pinder-Stuart Lecture in Anatomy and Neurobiology*, Beckman Center, University of California at Irvine, Irvine, CA, 1994.
- Bellugi, U.** *Invited Presentation*, Nobel Symposium, Stockholm, Sweden, , 1994.
- Bellugi, U.** & Klima, E.S.. *Invited Presentation*, Grand Rounds, Cornell University Medical Center, New York, NY, 1994.
- Bellugi, U.** & Klima, E.S.. *Invited Presentation*, Meeting on Evolution and Neurology of Language, Fondation Pour L’Etude Du Systeme Nerveux Central Et Peripherique (FESN), Harvard Medical School, Boston, MA, July, 1994.
- Bellugi, U.**, & Klima, E.S.. *Invited Presentation*, Symposium, Computation, Cognition, and Consciousness International Institute for Advanced Studies, Kyoto, Japan, 1994.

- Bellugi, U. & Klima, E.S.** *Plenary Address*, European Neurosciences Association, Madrid, Spain, 1993.
- Bellugi, U. & Klima, E.S.** *Address, for Distinguished Scientific Contribution Award*, American Psychological Association Meeting, Toronto, Canada, 1993.
- Bellugi, U. & Klima, E.S.** *Invited Lecture*, Centro Nazionale de Recerche, Rome, Italy, 1993.
- Bellugi, U.** (Symposium Organizer). *Neural Systems Underlying Spatial Language and Spatial Cognition*. Symposium, Academy of Aphasia, Tucson, AZ, 1993.
- Bellugi, U.** *Invited Presentation*, *Cognitive Neuroscience and Neuronal Plasticity*. Panel, Conference on Cognitive Neuroscience and Neural Plasticity, National Institute of Mental Health, National Institutes of Health, Bethesda, MD, 1993.
- Bellugi, U.** *Invited lecture*, Medical Research Center, London, England, 1993.
- Bellugi, U.** *Keynote Address*, Child Language Seminar, Plymouth, England, 1993.
- Bellugi, U.** *Invited keynote address: International/National Meeting for Williams Syndrome Professionals*. Brussels, Belgium, 1993.
- Bellugi, U.** *Frontiers of Science Invited Lecture: Language, spatial cognition, and neuronal plasticity*. American Psychiatric Association, San Francisco, CA, 1993.
- Bellugi, U.** *Invited Special Presentation*,. Symposium on Neurobiology of Language, for U.S. Congress, Decade of the Brain Symposium. Washington, DC, 1993.
- Bellugi, U., & Klima, E.S.** *Invited Presentation*, National Science Foundation Conference on the Biological Basis of Language,, Taiwan, Republic of China, 1993.
- Bellugi, U., & Klima, E.S.** *Keynote Lecture: Language Research: New Views of How the Brain Works*. International Child Language Conference, Plymouth, England, 1993.
- Bellugi, U.** *Invited presentation for Symposium on Brain, Genes, and Cognition*, American Neurological Association, Toronto, Canada, 1992.
- Bellugi, U.** *Invited Lecture*, International School of Neuroscience, The Neuronal Basis of Cognitive Function,. Padua, Italy, 1991.
- Bellugi, U.** *Invited presentation the National Advisory Child Health and Human Development Council*, National Institutes of Health, Bethesda, MD, 1992.
- Bellugi, U.** *Inaugural Lecture*, Neurosciences Research Program, New York City, 1992.
- Bellugi, U.** *Rita G. Rudel Honorary Lecture*, Columbia Medical Center, New York, 1992.
- Bellugi, U.** *Invited talk for the Decade of the Brain Symposium*, Recent Advances in the Neurobiology of Language Library of Congress and the National Institute of Mental Health, Washington, DC, 1992.
- Bellugi, U.** *Invited Symposium on 'Early Language and Brain Development: Evidence from Diverse Populations'*, International Neuropsychological Society, San Diego, CA, 1992.
- Bellugi, U.** *Invited Presentation*. Symposium on Discourse and Anomalous Brain Development, Academy of Aphasia, Toronto, 1992.
- Bellugi, U.** *Invited Presentation*, National Institutes of Health, Bethesda, MD, 1991.
- Bellugi, U.** *Invited Colloquium*, Brain and Cognitive Sciences Seminar Series, Massachusetts Institute of Technology, Cambridge, MA, 1991.

Bellugi, U.. *Presidential Special Lecture, Society for Neuroscience*,. New Orleans, LA, 1991.

Bellugi, U. *Invited Seminar*, speaker. Christian Anfinsen Seminar Series in the Cognitive Neurosciences, , National Institutes of Health, Cognitive Neurosciences Division, Bethesda, MD, 1991.

Bellugi, U.. *Invited Presentation*, Conference on Learning Disabilities, National Institute of Child Health and Human Development, Racine, WI, 1990.

Bellugi, U.. *Invited Presentation*, International Congress: Sign Language Research and Application, Hamburg, West Germany, 1990.

Bellugi, U.. *Keynote Address*, Boston Child Language Conference, Boston, MA, 1990.