

CURRICULUM VITAE

Paula Tallal, Ph.D.

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DATE AND PLACE OF BIRTH: May 12, 1947 - Austin, Texas

NATIONALITY: U.S. Citizen

DEGREES

- 1969 **B.A., New York University.** History of Art (major). Experimental Psychology (minor). Premedical requirements completed.
- 1973 **Ph.D., Cambridge University, England.** Department of Experimental Psychology.
Thesis Title: Auditory Perception in Childhood Developmental Dysphasia.
Supervisor: Malcolm Piercy.
- 1984 **Board Certified in Clinical Psychology,** State of California, License #PS8365.

PRESENT POSITION

Board of Governors Professor of Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ 07102

BIOGRAPHY

Paula Tallal, Ph.D. received her B.A. from New York University in 1969 and her Ph.D. in Experimental Psychology from Cambridge University, England in 1973. She completed additional research training as a post-doctoral fellow at The Johns Hopkins School of Medicine, where she subsequently was appointed to the faculty as an Assistant Professor of Psychology, Neurology, Communication Sciences and Pediatrics. In 1979, Dr. Tallal accepted a position at the University of California, San Diego in the Department of Psychiatry where she quickly moved through the academic ranks to Full Professor. During this time she also became Board Certified in clinical psychology. In 1987 Tallal was recruited by Rutgers' University to co-found and co-direct a new Center for Molecular and Behavioral Neuroscience, as well as a new graduate training program in Behavioral and Neural Sciences. Tallal's vision to integrate research and graduate training across the domains of behavioral and neural sciences became the focus of this now thriving research and training center, which currently has over 200 faculty, post-docs, students and staff. Tallal has received Rutgers' highest academic award, Rutgers University Board of Trustees Award for Excellence in Research and holds the University's highest academic rank, Board of Governors Professor of Neuroscience.

For the past 30 years, Dr. Tallal has led NIH and NSF funded multidisciplinary research teams studying the neurobiological basis of speech, language and reading development and disorders. She has published over 200 scientific papers and reviews as well as 3 edited volumes. Dr. Tallal has been recognized for her academic as well as clinical expertise in the area of developmental cognitive disabilities. She has been invited to serve on numerous National and International policy making panels, grant review committees, scientific and executive advisory boards and has been the recipient of many honors, awards and special lectureships. Dr. Tallal was recently selected by the Library of Congress to be the Commentator for the Field of Psychology at its Bicentennial Celebration. In 1996, she co-founded the Scientific Learning Corporation, a neuroscience company dedicated to developing and delivering research-

FIELD OF RESEARCH - Cognitive Neuroscience

I am experienced in Experimental Psychology, Developmental Neuropsychology, Language Development and Disorders, Speech Synthesis and Perception, Learning Disabilities and Information Processing. My research is broadly directed to studies that combine and unite my multidisciplinary training and interests in the neurobiological basis of language; utilizing behavioral, physiological, neuroimaging, genetic and translational research approaches.

APPOINTMENTS

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|-------------------|--|
| 2000- to Present | Board of Governors Professor of Neuroscience, Rutgers, The State University of NJ and Co-Director, Center for Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ 07102 |
| 1987- to 2000 | Professor II and Co-Director, Center for Molecular and Behavioral Neuroscience, Rutgers The State University of New Jersey, Newark, NJ 07102

Co-Director, Graduate Program, Behavioral and Neural Sciences, Rutgers, The State University of New Jersey, Newark, NJ 07102 |
| 1989 - to Present | Adjunct Professor of Neuroscience and Psychiatry, University of Medicine and Dentistry of New Jersey - New Jersey Medical School, Newark, New Jersey |
| 1986 - 1988 | Professor, Department of Psychiatry, University of California San Diego, School of Medicine, La Jolla, CA |
| 1980 - 1986 | Associate Professor, Department of Psychiatry, University of California San Diego, School of Medicine, La Jolla, California |
| 1979 - 1980 | Assistant Professor, Department of Psychiatry, University of California San Diego, School of Medicine, La Jolla, California. |
| 1979 - 1985 | Director of Research, Child Guidance Clinic, Children's Hospital and Health Center, San Diego, California.

Member, Executive Board - University of California-San Diego and San Diego State University Joint Ph.D. Program in Clinical Psychology. |
| 1979 - 1988 | Member, Center for Human Information Processing, University of California San Diego, La Jolla, California.

Member, Neuroscience Graduate Program, University of California San Diego, La Jolla, California. |

Member, Center for Research in Language, University of California San Diego, La Jolla, California

Member, Cognitive Science Group, University of California San Diego, La Jolla, California.

Consultant, Veteran's Administration Medical Center, Psychology Service, San Diego California.

1977-1979 Assistant Professor, Department of Neurology, Johns Hopkins School of Medicine, Baltimore, Maryland.

Assistant Professor, Department of Communication Sciences, Johns Hopkins University, School of Hygiene and Public Health, Baltimore, Maryland.

Consultant in Neurology/Neuropsychology, City of Baltimore, Department of Hospitals.

1976-1979 Assistant Professor, Department of Psychology, Johns Hopkins University, Baltimore, Maryland.

1975-1979 Coordinator Of Research, Special Education, John F. Kennedy Institute, Baltimore, Maryland.

1974-1975 Instructor, Department of Pediatrics, Johns Hopkins School of Medicine, Baltimore, Maryland.

1973-1974 NIH Postdoctoral Fellow, Department of Pediatrics, Johns Hopkins School of Medicine, Baltimore, Maryland. (Supervisor: Malcolm Preston).

1970-1973 Doctoral Student, Department of Experimental Psychology, Cambridge University, England. (Supervisor: Malcolm Piercy)

1969-1970 Research Associate, Department of Anatomy, Cambridge University, England. (Supervisor: Alan Findlay)

1968-1969 (50%) Research Assistant, Experimental Psychology, The Rockefeller University, New York, New York. (Supervisor: Neil Miller)

1967 (Summer) Research Fellowship, Rehabilitation Medicine, King's County Medical School, New York, New York.

1966 (Summer) Research Assistant, Department of Biochemistry, Institute of Muscular Diseases, New York, New York. (Supervisor: George Acs)

FELLOWSHIPS AND GRANTS

2011-2016 **NATIONAL SCIENCE FOUNDATION, Temporal Dynamic of Learning Center, Co-Director (Principal Investigator, Gary Cottrell), \$18 million.**

2006-2010 **NATIONAL SCIENCE FOUNDATION, Temporal Dynamic of Learning Center, Co-Director (Principal Investigator, Gary Cottrell), \$15.5 million.**

2002-2005 SANTA FE INSTITUTE CONSORTIUM, Co-Investigator, (Principal Investigator, A.A. Benasich), "Increasing Human Potential Initiative", **\$1,515,000.**

1999-2004 NICHD, Co-Investigator, (Principal Investigator, A. A. Benasich), "Phase Two: Infant Perceptual Abilities as Cognitive Precursors", **\$1,636,420.**

1998- CARTER/URSCHEL FOUNDATION CONSORTIUM, Co-Principal Investigator with A. A. Benasich, "Nonverbal, Nonmotor-Based Assessment Battery for Infants and Children with Early Brain Insult: Continued Development", **\$200,000.**

1997-1998 CARTER/URSCHEL FOUNDATION, Co-Principal Investigator with A. A. Benasich, "A Proposal for Development of a Nonverbal, Nonmotor-Based Assessment Battery for Infants and Children with Early Brain Insult." **\$190,335.**

1996-2003 NIDCD, Principal Investigator, "Family Genetic Studies of Language Impairment", **\$1,619,156.**

1994-1997 DANA FOUNDATION, Principal Investigator, "Dana Consortium on Language-Based Learning Disorders", **\$910,000.**

1994-1996 MARCH OF DIMES, Project Director, "Twin Study of Language Impairment", **\$81,108.**

1993-1996 NIDCD, Principal Investigator, "Family Genetic Studies of Language Impairment", **\$1,191,037**

1993 - 1998 NIH, Co-Investigator, Infant Perceptual Abilities as Cognitive Precursors, (April Benasich, PI) **\$791,440.**

1993-1995 McDonnell-Pew Program Post-doctoral supervisor to Romy Spitz, "Visual Persistence & Temporal Processing Abilities in Specifically Language Impaired Children", **\$60,000.**

1993-1994 UMDNJ, Principal Investigator, Chronic Fatigue Syndrome, subcontract, Ben Natelson, PI., **\$11,500.**

1993-1996 NIH, National Research Service Award, Post-Doctoral supervisor to Steve Miller, "Temporal Processing Analysis of Learning Disabilities", **\$82,200.**

1992-1994 McDonnell-Pew Program in Cognitive Neuroscience, Co-Principal Investigator with Holly Fitch, "An Animal Model for the CNS Organization of Auditory Temporal Processing", **\$60,000.**

1992 NIDCD, NINDS, NICHD, Conference Grant, Principal Investigator, "Temporal Processing: Dyslexia, Dysphasia and the Brain" Processing Consensus Development, **\$39,000.**

1990 - 1992 NIDCD, Principal Investigator, "An Animal Model for the Development of Cerebral Asymmetry", **\$65,290.**

1988 - 1992 NINCDS, Co-Investigator, Neurobehavioral Development in Normal and Language-Impaired/Reading-Impaired Children (Helen Neville, PI), **\$625,565.**

1988 - 1990 NICHD, Co-Investigator, "Neurobehavioral Phenotypes of the Cystinosis Gene" (Doris Trauner, PI), **\$389,690.**

- 1985-1988 NINCDS, Principal Investigator, "Multidisciplinary Research Center for the Study of the Neurological Basis of Disorders of Language, Behavior and Learning During Infancy and Early Childhood," **\$3,750,000.**
- 1980-1989 NINCDS, Principal Investigator, "Evaluation of the Outcome of Preschool Impairment in Language Development," , **\$2,430,000.**
- 1983-1985 MacArthur Foundation Network Grant, Co-Investigator, "Brain Bases of Behavior", (Helen Neville, PI), **\$200,000.**
- 1983-1984 UCB Drug Company, Principal Investigator, "A 36-Week Double Blind Parallel Group Multicenter Study to Compare the Efficacy and Safety of Piracetam with Placebo in Children with Specific Written Language Difficulties (Dyslexia)," **\$150,000.**
- 1982-1987 MacArthur Foundation Network Grant, Co-Investigator, "The Transition from Infancy to Early Childhood," (Elizabeth Bates, PI), **\$400,000.**
- 1981-1982 UCB Drug Company, Principal Investigator, "A 12-Week Double Blind Parallel Group Multicenter Study to Compare the Efficacy and Safety of Piracetam with Placebo in Children with Specific Written Language Difficulties (Dyslexia)," Children's Hospital and Health Center, **\$123,000.**
- 1975-1979 NINCDS, Principal Investigator, "Sensory and Perceptual Abilities of Children With and Without Delayed Language Development," **\$650,000.**
- 1974-1975 Grant Foundation Research Grant, Principal Investigator, "Perceptual Abilities Associated with Reading Impairment," Johns Hopkins School of Medicine, Baltimore, Maryland, **\$20,000.**
- 1973-1974 NIH Postdoctoral Fellowship, **\$10,000.**
- 1972-1973 American Association of University Women Pre-Doctoral Research Fellowship, **\$3,000.**
- 1971-1972 Calouste Gulbenkian Pre-Doctoral Research Fellowship, **\$3,000.**

ACADEMIC AWARDS/HONORS

- 1965 Boswell Scholarship for Most Outstanding Graduate, Dallas, Texas
- 1970 President's Award, Lucy Cavendish College, Cambridge University, England.
- 1976 Distinguished Young Scientist of The Year, Maryland Academy of Sciences.
- 1977 President's Award for Outstanding Creativity in Science, Notre Dame College, Maryland.
Mayor's Public Service Citation, City of Baltimore, Maryland.
Baltimore County Citizen Citation, Maryland.
- 1982 American Speech-Language-Hearing Association Certificate of Appreciation in Recognition of a Significant Contribution to the Profession of Speech-Language Pathology and Audiology, National Award.

- 1983 Elected to Board of Directors, INTRAC
- 1986 Appointed to State of California Commission on Learning Disabilities
- 1987 Invited to Write Congressional Report on Language Disorders
- 1989 Rita Rudel/Lucy Moses Memorial Lecture
- Appointed to Diagnostic & Statistical Manual (DSM-IV) Task Force on Language Disorders
- Appointed to DSM-IV Task Force on Learning Disorders
- 1990 Appointed to Board of Trustees Rita Rudel Foundation

Appointed to Scientific Advisory Board of National Dyslexia Research Foundation

- 1991 Appointed to Linguistics Section Advisory Board, The New York Academy of Sciences

1992 Invited to present Presidential Special Lecture - Society for Neuroscience, Anaheim

Invited to present special lecture - American Psychiatric Association (APA) Annual Meeting

NIDCD - Basic Science Consultant to Director

- 1993 James E. Beall II Memorial Award for Meritorious Research in the Field of Anatomy or Neuroscience
- Appointed to Scientific Board - Rodin Remediation Academia, Stockholm
- Invited to present Decade of the Brain Lecture to members of U.S. Congress and the Senate

Invited to present NIDCD Fifth Anniversary Lecture

- Elected to March of Dimes Scientific Advisory Executive Council
- 1994 American Speech-Language-Hearing Association Distinguished Service Award
- Elected Fellow of the American Psychological Society
- Human Frontiers in Science International Program (HFSP)-American Representative
- Elected to Rodin Remediation Academia Executive Board, Stockholm
- 1995 Elected Fellow of the International Behavioral Neuroscience Society

1996 Rutgers University Board of Trustees Award for Excellence in Research

Finalist – Science and Technology Discovery of the Year Award –
Discover Magazine

University Heights Science Park Board of Trustees - Newark Pioneers of Science &
Technology Award

1997 Elected to Santa Fe Institute Scientific Advisory Board

1998 Invited to present International Brain Research
Organization (IBRO) Award Lecture, Tutzing, Germany

1998 Invited to present Congressional Biomedical Research Caucus Congressional Briefing on
“Learning Disabilities”

Joint Steering Committee for Public Policy

Library of Congress Bicentennial Celebration “Frontiers of the Mind in the Twenty-First Century” Invited
commentator on the field of psychology.

Research highlighted in Brain Research Bulletin special issue on “Highlights in Twentieth
Century Neuroscience”.

Invited to give a private research presentation to Dr. Harold Varmus, Director of the NIH,
and other NIH Institute Directors

Appointed to Language Literacy Link Advisory and Honorary Board

1999 Invited Commentary on Learning Disabilities for the Proceedings of the National Academy
of Sciences

Thomas Alva Edison Patent Award

2000 Board of Governors Professor of Neuroscience Award

2003 NJBIZ Women of Influence Award

2006 Invited to give 28th Annual Mildred Trotter Lecture at Washington University School of
Medicine

2007 Invited to give the 2007 Abreu Memorial Keynote Lecture at the University of Texas
Medical Branch

- 2010 Invited by X-Prize Foundation to present NeuroEducation Prize concept at Big Task Weekend
- 2011 Invited by X-Prize Foundation to their Visioneering Weekend to present NeuroEducation Prize concept

NATIONAL SCIENTIFIC RESPONSIBILITIES

- 1978 NICHD Centers Evaluation Task Force
- 1983 NICHD Task Force - 5-year Research Plan
- 1984 NINCDS Ad Hoc Program Project Evaluation and Grant Reviews
- 1987 Interagency Committee report to U.S. Congress on Learning Disabilities. Authored Report on Language Disorders
- 1988 National Academy of Sciences, Institute of Medicine Task Force on Causes and Determinants of Mental Disorders of Childhood and Adolescence.
- 1989 Institute of Medicine Report on Research on Children and Adolescents with Mental, Behavioral, and Developmental Disorders.
- 1989-1992 Diagnostic & Statistical Manual (DSM IV) Task Force Work Group on Learning Disabilities.
- 1989-1992 Diagnostic & Statistical Manual (DSM IV) Task Force Work Group on Language Disorders
- 1989 NIDCD Task Force to Develop National Strategic Research Plan
- 1992 NIDCD Basic science consultant to Institute Director and Research Priorities Committee Advisory Board
- 1992 Society for Neuroscience - Lindsley Prize Selection Committee
- Little Foundation Task Force on Neuroendocrinology,
- 1992 - March of Dimes - Behavioral and Social Sciences Review Board
- 1993 - March of Dimes Scientific Advisory Executive Council
- Society for Neuroscience Public Information Committee
- 1994 Chairperson - Lindsley Prize Selection Committee, Society for Neuroscience
- NIDCD Integrated Planning and Policy Committee
- NIDCD Language and Language Impairments Expert Panel
- 1996 - Santa Fe Institute - Scientific Advisory Board
- 1997 Elected to Cognitive Neuroscience Society, Program Committee

NINDS-Director's Advisory Panel on Cognition and Behavior

- 1999 Appointed to Honorary Board of the Language Literacy Link
- 2000 Board of Advisors – The Infinite Mind-National Public Radio
- 2004 Advisory Board – Cognitive Neurorehabilitation, National Institute Neurological Disorders and Stroke (NINDS)
- Editorial Advisory Board – Speech-Language Pathology Care Coding Alert
- 2009 PBS TV program “New Science of Learning: Brain Fitness for Kids”, - main scientific advisor

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Society for Neuroscience
International Neuropsychology Society
Academy of Aphasia, *Elected Member*
The Psychonomic Society, *Elected Member*,
Association of Neuroscience Programs (ANDP)
Consilium of the Academia Rodinensis pro Remediatione, *Elected Member*
Society for Cognitive Neuroscience
International Mind, Brain and Education Society
American Education Research Association

American Psychological Society-*Charter Member*
New York Academy of Sciences
American Speech, Hearing and Language
- Foundation-*Gold Founders Circle*

EDITORIAL BOARDS

Journal of Speech and Hearing Disorders

Behavioral and Brain Sciences

Applied Psycholinguistics

Developmental Neuropsychology

Development and Psychopathology

Psychoneuroendocrinology - Invited Editor, Special Issue

Neuropsychology

Journal of the International Neuropsychological Society

Brain and Mind

Editorial Board Member of Higher Level Brain Function Domain-The Scientific World

The Scientific World

EDITORIAL REVIEWS

Science
Nature
Proceedings of the National Academy of Sciences
Brain
Experimental Brain Research
Annals of Neurology
Journal of Neuroscience
Nature Reviews Neuroscience
Applied Psycholinguistics
Brain and Language
Behavioral and Brain Sciences
Neuropsychologia
Journal of the Acoustical Society of America
Perceptual and Motor Skills
Cortex
Journal of Speech and Hearing Disorders
Journal of Speech and Hearing Research
Psychological Bulletin
Trends in Neurosciences
Canadian Journal of Psychology
Developmental Psychology
Child Development
Psychological Reports
Journal of Autism and Developmental Disorders
William C. Brown Publishers
Academic Press Publishers
University Park Press
Journal of Experimental Child Psychology
Neuroscience Letters

Journal of Educational Psychology

Journal of Language and Memory

GRANT REVIEWS

National Science Foundation

Veteran's Administration

National Institutes of Health

March of Dimes – Review Committee for Social & Behavioral Sciences

Fogarty International Fellowship

American Speech-Hearing-Language Foundation

Australian Research Council

Ontario Mental Health Foundation

Medical Research Council of Canada

Human Frontier Science Program - Review Committee for Research Grants
(Brain Functions)

Wellcome Trust

Israel Science Foundation

CONFERENCE ORGANIZER

1983 MacArthur Foundation Network - Co-organizer, National Summer Institute

1987 Workshop on "Positron Emission Tomography in Dyslexia", Funded by NIH

Workshop on "Magnetic Resonance Imaging in Children", Funded by NIH

Symposium on "Cognitive Neuroscience", Funded by Rutgers University

1988 "Neurobiology: Brain and Cognitive Development", Funded by the MacArthur Foundation

1989 New York Academy of Sciences "Child Language Symposium"

1991 "Social, Emotional Profiles of Children With Language Disorders", Funded by the New York Orton Dyslexia Society

1992 "Brain Development and Early Cognition", Funded by the American Health Foundation - (Co-Organizer with Bruce McEwen)

"The Exceptional Brain: Cognitive Neuroscience of Reading", Funded by the National Dyslexia Research Foundation

"Temporal Information Processing in the Nervous System", (Co-Organizer with Rudolpho Llinas and Albert Galaburda), Funded by NIH, NY Academy of Science, Rodin Foundation

1998 "First Meeting of the Neurobiology Research Consortium (Co-Organizer with April Benasich) Funded by Chancellor Urschell Foundation, Ithaca, NY

1999 "Neurobiological Approches to Assessment and Intervention" (co-organizer with April Benasich). Funded by Chancellor Urschell Foundation, London, England.

"Neurobiology of Language Learning Impairments" (Co-Organizer with M. Ito) Funded by Rodin Remediation, Tokyo, Japan.

“Brain Development” (Co-Organizer with George Cowan) Funded by Santa Fe Institute, Santa Fe, NM.

“Adaptive Learning: Interventions for Verbal and Motor Deficits” (Co-Organizer with Sally Broman) Funded by NIH, Bethesda, MD.

2011 “Music, Brain and Medicine”: National Academy of Sciences (Co-Organizer Dorita Berger). Funded by NIH.

2011 Music, Brain and Education: Funded by NSF Temporal Dynamics of Learning Center

PROGRAM COMMITTEES FOR INTERNATIONAL SOCIETIES

1980 International Neuropsychology Society
Academy of Aphasia.

1981 International Neuropsychology Society

1985 International Neuropsychology Society

1996-98 Society for Cognitive Neuroscience

CONSULTANTSHIPS

Medical Research Council of Great Britain, Research Consultant in Neuropsychology, Oxford, England

Vanderbilt University, Department of Psychiatry, Nashville, Tennessee

Northwestern University, Department of Audiology, Chicago, Illinois

University of Calgary, Department of Educational Psychology, Alberta, Canada

University of Texas at Dallas, Callier Research Center, Dallas, Texas

Veteran's Administration Hospital, Martinez, California

Kresge Hearing Research Laboratory, New Orleans, Louisiana

Johns Hopkins School of Medicine, Department of Pediatrics, Biostatistics Unit, Baltimore, Maryland

Children's Hospital and Health Center, San Diego, California

House Ear Institute, Los Angeles, California

Besselaar Associates, Princeton, New Jersey

Neuropsychiatric Institute, Center for the Health Sciences, Los Angeles, California.

American Speech-Language-Hearing Association, Rockville, Maryland.

UCB Drug Company

Emerson Stern and Associates

Warner Lambert Pharmaceutical Company

Rutgers University, Newark, New Jersey

Children's Hospital Research Center, San Diego

University of Florida, Department of Genetic, Mailroom Institute, Miami, Florida

University of California San Diego, La Jolla, CA

Salk Institute, La Jolla, CA

Indiana University, Bloomington, IN

N.Y. State Psychiatric Institute - Columbia University School of Medicine

National Institute of Deafness and Communicative Disorders (NIDCD)

Expert Consultant to American Speech Hearing Language Association Task Force on Central Auditory Processing Consensus Development

Scientific Learning Corporation

Education Commission of the States

Posit Science Corporation

NeuroTrax Corporation

UNIVERSITY RESPONSIBILITIES

1. TEACHING

Cambridge University, 1970-1973

Department of Experimental Psychology: Supervisor, Natural Sciences Tripos Part Ib. Lectures and Practical Classes, Audition and Language. Lectures and Tutorials, Behaviour and Behaviour Disorders.

Department of Education: Seminar Series, Development of Language and Cognition. Lectures and Practical Classes, Experimental Child Psychology.

Johns Hopkins Institutions (University and Medical School), 1974-1979

Kennedy Institute: Seminar Series, Auditory Perception, Speech Perception and Language Development.

Department of Psychiatry: Lectures, Speech Perception and Language Disorders.

Department of Education: Lectures, Speech Perception.

Department of Psychology: Lectures, Speech Perception. Graduate Seminar, Neuropsychology of Language.

Research Mentor:

Pre-doctoral students supervised, Department of Communication Sciences.

University of California-San Diego, 1979-1988

Medical School Courses:

Basic Neurology: Higher Cortical Functions Course-Aphasia.

Social Behavioral Sciences, Human Growth and Development Course.

Small Group Facilitator, SBS Human Growth and Development Course.

Residency, Internship and Fellowship Programs, Department of Psychiatry: Seminar Series, Reading and Criticizing the Research Literature For Clinicians, Child Psychiatry Fellowship Training Program.

Clinical Psychology Internship Program: Learning Disabilities.

Resident Training Program in Child Psychiatry, Children's Hospital: Issues in Child Psychiatry, Developmental Communication Disorders. .

Graduate Seminars:

Department of Psychology: Cognitive Development (MacArthur Foundation-sponsored multidisciplinary graduate seminar on Event Representation).

Neurosciences Program: Neurobiology of Cognitive Developmental Disorders - Developmental Aphasia.

Department of Psychiatry, Ph.D. Program in Clinical Psychology: Research Seminar.

Research Mentor:

Pre-Doctoral students: Neuroscience Graduate Program, Cognitive Science Graduate Program

Undergraduate Student Senior Honors Thesis: Department of Psychology; Department of Linguistics

Rutgers University 1989 - Present

GRADUATE

Co-Director - Behavioral and Neural Sciences (BNS) Graduate Program

Research Mentor – Pre-doctoral Students, Post-Doctoral and Medical Fellows: BNS Graduate Program

Course Lecturer - Foundations in Neuroscience, BNS Graduate Program

UNDERGRADUATE

Mentor - Research Interns, Honors Thesis

Mentor - N.J. Science Center Summer Internship Program, High School Minority Students

Speaker - Science Day Program for the Office of Admissions

2. COMMITTEES

University of California at San Diego

Committee to Establish Joint Ph.D. in Communicative Disorders, University of California-San Diego/San Diego State University, 1980-1984

Center for Research in Language Acquisition, 1980 Chair, Advisory Committee

Department of Psychiatry Executive Committee, 1980-1987

Day Care Advisory Committee, 1980-1984 Faculty Representative

Academic Senate Medical School Recruitment and Admissions Committee, 1980-1983

Academic Senate-Affirmative Action Committee, 1981-1985 - Faculty Representative; 1984-1985 - Vice Chair

Medical Scientist Training Program (M.D./Ph.D. Program) - Admissions Committee, 1982-1985

Medical Scientist Training Program (M.D./ Ph.D. Program) - Executive Committee, 1982-1985

Neurosciences Graduate Program - Admissions Committee, 1982-1984

Committee to Establish Joint Ph.D. in Clinical Psychology, University of California-San Diego/San Diego State University, 1983-1985

Academic Senate-Faculty Welfare Committee, Chair of Faculty Services Subcommittee, 1983-1985

University of California-San Diego/Children's Hospital and Health Center Merger Negotiating Committee, Subcommittee on Research Program and Facilities, 1984-1985

Clinical Psychology Graduate Program - Executive Committee

Rutgers University

Search Committee Director for Institute of Animal Behavior, 1989

BSRG Grant Review Committee, 1989

Newark Campus Administration Forum, 1989 - present

Biomedical Research Advisory Committee, 1989

Appointments and Promotions, 1989 - present

University-Wide Faculty Budget Committee, 1990

Science Advisory Council - Rutgers Newark, 1991 - present

Ad Hoc Personnel Committee, 1991, 1993

Search Committee for Vice President for Research and Dean, New Brunswick Graduate School, 1992

Faculty of Arts and Sciences - Task Force "Mission Commission", 1992-1993

Teaching Assistant Training in Research Ethics - Facilitator for Sciences, 1992 - present

Research Advisory Board, 1993

Newark Campus Strategic Plan Steering Committee - 1993 to present

Search Committee for Chair to the Department of Psychology, Newark Campus - 1994 - Present

Chair - University-wide Selection Committee for the Board of Trustees Awards for Excellence in Research - 1995-1997

Faculty Committee on Honorary Degrees - 1995

University Science Cabinet – 1998

Faculty Advisory Committee for the Newark Center for Families and Communities-1998

Committee on Technology Transfer – 2000

Search Committee for Vice Provost for Research – 2005/

PRESENTATIONS

1. *Invited:*

1974 **Brain and Behaviour Winterschool**, "Mechanisms of Visual Perception," Zuoz, Switzerland.

1975 North Atlantic Treaty Organization, **International Conference on the Neuropsychology of Learning Disorders: Theoretical Approaches**, Korsor, Denmark. Chair, **International Symposium on Cerebral Lateralization**, Leiden, Holland.

1976 **National Institutes of Health, Conference on the Role of Basic Research in Speech and Language in the Clinic and Classroom**, Elkridge, Maryland.
National Institutes of Health, Interdisciplinary Training Conference for Audiologist and Speech Pathologists, Baltimore, Maryland.
Dahlem Conference, "The Analysis of Complex Acoustic Signals," Berlin, Germany.

1977 **Conference on Non-Speech Language Intervention Strategies**, Gulf Shores, Alabama.
Children's Hospital of Los Angeles, Conference on Research in Auditory Processing, Los Angeles, California.

M.I.T., Symposium on Language Disorders, Cambridge, Massachusetts.
University of Wisconsin, Conference on Production and Comprehension of Speech and Language, Milwaukee, Wisconsin.
The Rockefeller University, Behavioral Sciences Colloquium Series, New York, New York.

1978 **M.I.T., Sloan Foundation Workshop on the Biological Basis of Language**, Cambridge, Massachusetts.
National Institutes of Health, Conference on Child Phonology, Bethesda, Maryland.
Keynote Speaker, **Washington, D.C. Hearing and Speech Association, Annual Conference**, Washington, D.C.
Featured Speaker, **Boston University Annual Conference on Language Development**, Boston, Massachusetts.
Keynote Speaker, **British Acoustical Society Conference on Child Phonology**, London, England.
Featured Speaker, **A. P. Mynders Hearing Aid Services Meeting**, Philadelphia, Pennsylvania.

1979 **Salk Institute, Colloquia Series**, San Diego, California.
Stanford Child Language Symposium Panel on Child Language Disabilities, Stanford, California.
University of Chicago, Psychology Colloquia Series, Chicago, Illinois.
New York Neuropsychology Society, New York, New York.
New York Academy of Aphasia, New York, New York.
Veteran's Administration Hospital, Hearing and Speech Section, Martinez, California.
Adelaide University, Department of Psychology Workshop on Speech Perception, Adelaide, New South Wales, Australia.
National Acoustics Laboratory Seminar Series, Sydney, Australia.
Sydney Speech and Hearing Association Workshop on Language Disorders, Sydney, Australia.
Orton Society Annual Meeting, Symposium on Language Disorders, Indianapolis, Indiana.
Keynote Speaker, **California Speech and Hearing Association Annual Meeting**, San Diego, California.
University of Illinois at Chicago Circle, Institute for the Study of Developmental Disabilities Colloquia Series, Chicago, Illinois.

1980 **Conference on Auditory Perceptual Disorders in Children**, Cincinnati, Ohio.
Rutgers University, Department of Psychology Colloquium Series, New Brunswick, New Jersey.
International Symposium on the Neuropsychology of Language, Reading and Spelling, New York, New York.
Symposium Organizer and Speaker, **International Neuropsychological Society Symposium on Temporal Processing and Hemispheric Specialization**, San Francisco, California.
Invited Chairperson, **International Neuropsychological Society**, San Francisco, California.

Neuropsychobiology Research Seminar Series, La Jolla, California.
University of California, San Diego, Department of Psychology Colloquium Series,
La Jolla, California.

Children's Hospital and Health Center, Pediatric Grand Rounds, San Diego,
California.

Keynote Speaker, **San Diego Unified School District Annual Conference on Special
Education**, San Diego, California.

Featured Speaker, **San Diego State University, Department of Communication
Disorders Annual Conference**, San Diego, California.

Featured Speaker, **University of Washington, Conference on Neurologically Based
Communication Disorders of Severely Handicapped Children**, Seattle, Washington.
Society for Ear, Nose and Throat, Annual Conference, Vail, Colorado.

Tufts - New England Medical Center, Seminar Series, Boston, Massachusetts.

Hanneman University Medical Center, Seminar Series, Philadelphia, Pennsylvania.

City University of New York, Seminar Series, New York, New York.

Keynote Speaker, **Oklahoma Speech and Hearing Association Annual Meeting**,
Oklahoma City, Oklahoma.

Conference on Biological Basis of Reading Disabilities, Chicago, Illinois.

1981 **Mailman Center for Developmental Disabilities**, Miami, Florida.

Third International Child Language Symposium, Vancouver, B.C.

Chairperson and Symposium Speaker, **International Neuropsychology Symposium**,
Bergen, Norway.

UCSD Pediatric Neurology Grand Rounds, La Jolla, California

Japanese Hearing and Speech Association, Tokyo, Japan.

Topic Speaker, **Orton Society Annual Conference**, Seattle, Washington.

Conference on Perspectives in Child Neuropsychology, Long Island, New York.

**Child Psychiatry Grand Rounds, College of Physicians and Surgeons, Columbia
University**, New York, New York.

Center for Neurobiology and Behavior Seminar Series, Columbia University, New
York, New York.

MacArthur Language Development Seminar Series, Carbondale, Illinois.

Short Course Speaker, **American Speech-Hearing-Language Association Annual
Meeting**, Los Angeles, California.

1982 *Special Interest Group Leader*, **Stanford Child Language Research Forum**,
Stanford University, Stanford, California.

Discussant, **New York Academy of Sciences International Cochlea Protheses
Symposium**, New York, New York.

Topic Speaker, **Orton Society Annual Conference**, Baltimore, Maryland.

Keynote Speaker, **International Academy for Research on Learning Disabilities**,
Toronto, Canada.

Department of Psychology Colloquium Series, University of Guelph, Guelph,
Canada.

1983 *Keynote Speaker*, **International Congress on Learning Disabilities**, Montreal,
Canada.

Communication Sciences Research Colloquium, McGill University, Montreal, Canada.

Special Lecture Series, University of Montreal, Montreal, Canada.
Workshop Leader, **10th Annual Conference on Language and Learning**, Denver, Colorado.
Topic Speaker, **Orton Dyslexia Society Annual Conference**, New York, New York.
Short Course Speaker, **California Speech-Hearing-Language Association Annual Meeting**, San Diego, California.
Banff Annual Seminar in Cognitive Science, Banff, Canada.
University of Calgary Seminar Series, Calgary, Canada.
Second World Congress on Dyslexia, Halkidiki, Greece.
Short Course Speaker and Round Table Panelist, **Western Speech-Hearing-Language Association Congress**, Honolulu, Hawaii.

1984 **Bloomsburg University Mid-Winter Annual Consortium**, Bloomsburg, Pennsylvania.
MacArthur Foundation Spatial Cognition Workshop, Salk Insititute, LaJolla, California.
West Coast College of Biological Psychiatry, La Jolla, California.
International Conference on Psychophysiology, London, England.
Symposium Speaker, **American Psychological Society**, Toronto, Canada.
Mini-Seminar Speaker, **American Speech and Hearing Association Conference**, San Francisco, California.

1985 *Keynote Speaker*, **Landmark Conference**, Boston, Massachusetts.
Symposium Speaker, **Orton Dyslexia Society**, New York, New York.
Annual Speaker, **National Student Speech, Hearing and Language Association Meeting**, Phoenix, Arizona.
VI International Elks Symposium, Toronto, Canada.
Brain Basis of Behavior Symposium, MacArthur Summer Institute, Charlottesville, VA.
Symposium Speaker, **Orton Dyslexia Society**, Chicago, Illinois.
Symposium Speaker, **Psychonomics Society**, Boston, Massachusetts.
Landmark Conference, Prides Crossing, Massachusetts.

1986 **Neuropsychology Research Seminar**, UCLA, Los Angeles, California.
San Diego City Schools, San Diego, California.
Warner Lambert Pharmaceutical Research Company, Detroit, Michigan.

1987 **National Conference on Learning Disabilities**, Bethesda, Maryland.
MacArthur Brain Basis of Behavior Series, La Jolla, California.
California Neuropsychology Services Symposium, San Francisco, California.
Keynote Speaker, **ACLD International Conference**, San Antonio, Texas.
First International Symposium on Specific Speech and Language Disorders in Children, Reading, England.
VII International Elks Symposium, Halifax, Nova Scotia.
Keynote speaker, **Council of Graduate Programs in Communication Sciences and Disorders**, St. Louis, Missouri.
International Symposium on Language Acquisition and Language Impairment In Children, Parma, Italy.

MacArthur Summer Institute, Durango, Colorado.

1988 **Auditory Processing Disorders in Children**, Portland, Oregon
Conference Co-Organizer and Speaker **Neurobiology: Brain and Cognitive Development**, San Diego, California.

Academia Rodinensis Pro Remediatione, International Symposium on Developmental Dyslexia and Dysphasia, Stockholm, Sweden

1989 *Conference Co-Organizer and Speaker* **The Orton Dyslexia Society - Medical Symposium**, New York, New York.

Conference on Developmental Variations in Language and Learning, New York, New York

Featured Speaker, **Boston Child Language Conference**, Boston, Massachusetts.

Discussant, **NICHD Workshop on Development of Memory**, Philadelphia, Pennsylvania.

Keynote speaker, **Rutgers University Convocation**, Newark, New Jersey.

Speaker, **Columbia Presbyterian Medical Center, Child Psychiatry, Grand Rounds**, New York, New York

Speaker, **University of Medicine & Dentistry of New Jersey, Visiting Lecture Series**, Newark, New Jersey.

Featured Speaker, **Philadelphia Chapter of the Orton Society Annual Meeting**, Philadelphia, Pennsylvania.

Speaker, **NICHD Workshop on Technological Issues in Brain Imaging**, Bethesda, Maryland.

Speaker, Princeton University, **Department of Psychology Colloquium Series**, Princeton, New Jersey.

1990 *Discussant*, **Margaret Mahler Research Symposium**, New York, New York

Speaker, **Workshop on DSM-IV Disorders in Children and Adolescents**, New York University Medical Center, New York

Speaker, **The New Jersey Branch of the Orton Dyslexia Society**, "Neurological basis of developmental language disorders", Newark Airport.

Speaker, **Mt. Sinai Medical Center**, New York

Speaker, **University of Medicine & Dentistry of New Jersey**, "Academic & Behavioral Sequela of Developmental Language Disorders", Newark, New Jersey

Conference Co-organizer and Speaker, **New York Child Language Conference**, "Longitudinal Outcomes of Early Impairments in Language", New York

Speaker, **CUNY**, "Longitudinal Outcomes of Specific Developmental Language Disorders", New York

Speaker, **LDAA International Conference**, "The Role of Center Directors in Research on Learning Disorders", Anaheim, California

Award Lecture **Rita G. Rudel/Lucy G. Moses Memorial Lecture**, "Behavioral and neural correlates of language developmental disorders" New York

Speaker, **Children's Seashore House Convocational Scientific Meeting**, "Research on Language in Learning Disabilities", Philadelphia, PA.

Speaker, **Dyslexia and the Brain: A Medical Symposium**, "Neuroimaging and neuropsychological studies of language disorders", Rancho Mirage, CA.

Topic Speaker, National Institute on Deafness and Other Communication Disorders, "Language: Opportunities and Needs", D.C.

Symposium Speaker, IIIrd IRBO World Congress of Neuroscience, "Structural and Functional Correlates of Developmental Language/Learning Disabilities", Montreal, Canada.

Speaker, National Dyslexia Research Foundation Conference: The Extraordinary Brain, "Hormonal Influences on Brain Development and Cognition", Barcelona, Spain.

Speaker, Sixteenth International Rodin Remediation Scientific Conference: Genetic and Neurologic Influence in Dyslexia, "Sex-ratio anomalies in families with language-impaired children", Boulder, Colorado.

1991 *Speaker, The Johns Hopkins University School of Medicine, Division of Child and Adolescent Psychiatry, "Neural Mechanisms Underlying Speech and Language Development", Baltimore, Maryland.*

Speaker, The Orton Dyslexia Society, "Structural and functional neural profiles of language/learning disabled children", New York.

Speaker, Australian Society for the Study of Brain Impairment, "Neuromorphological and Language Correlates in Developmental Dysphasia", Broadbeach, Gold Coast, Queensland, Australia.

Speaker, University of Medicine & Dentistry of New Jersey, Robert Wood Johnson Medical School, "Studies on the Neural Basis of Language and Reading Disabilities in Children", New Brunswick, NJ.

Speaker, Teachers College Columbia University, "Social/Behavioral Profile of Language Impaired Children", New York.

Speaker, The New York Academy of Sciences, "Language in the Brain", NY

Speaker, DGF Conference: Crossing Boundries, University of Tuebingen, "Regular and irregular past tense usage by young language impaired children", Tuebingen, German

1992 *Speaker, Morris-Union Jointure Commission, Chatham, NJ*

Speaker, The Hospital for Sick Children, Toronto, Canada

Conference Organizer and Speaker, American Health Foundation, "Integrating Behavioral and Neurobiological Studies of Language Development and Disorders", Washington, DC.

Speaker, American Psychiatric Association, "Neurobiological Foundations of Language Development and Disorders", Washington, DC.

Conference Organizer and Speaker, National Dyslexia Research Foundation Conference: The Extraordinary Brain, "Temporal Processing in the Nervous System: Implications for the Development of Phonological Systems", Santa Fe, New Mexico.

Speaker, College of Physicians & Surgeons of Columbia University, Grand Rounds, "Neurobiological basis of developmental disorders of Language", New York.

Presidential Special Lecturer, Society for Neuroscience, "Neurobiological Foundations of Speech and Language", Anaheim, CA

Conference Co-organizer and Speaker, The New York Academy of Sciences, "Neural Basis of Temporal Perceptual/Motor Processing: Implications for Speech and Reading" New York.

Speaker, 8th International Conference on Infant Studies, "An Operant Conditioning Paradigm for Assessing Auditory Temporal Processing in Infants", Miami

Beach, Florida.

Speaker, **Third Biennial Meeting, University of Lund**, "Acquisition of cognitive state predicates by language impaired children: A test of theory. Paper presented to the European Research Group on Developmental Language Disorders. Lund, Sweden.

Speaker, International Cerebral Blood Flow and Metabolism "Activation of a left frontal area near Broca's area during auditory detection and phonological access tasks".

1993 *Symposium Speaker, Library of Congress Decade of the Brain Symposium*, "The Brain in Process - Developmental Neurobiology", Washington, DC.

Speaker, The Orton Dyslexia Society, "Developmental Language and Reading Disorder: The Perception Connection", New York.

Speaker, University of Pittsburgh School of Medicine and the NIMH Clinical Research Center for Affective Disorders Visiting Professorship Lectures, "The Role of Neurodevelopmental Disorders in Childhood Psychopathology", Pittsburgh, PA.

Speaker, The Mount Sinai Medical Center, "Neurodevelopmental Precursors to Child Psychopathy", New York.

Speaker, Pennsylvania State University College of Medicine, "The Neurobiological Foundations of Speech: A case for the Preeminence of Temporal Processing", Hershey, PA.

Speaker, New Jersey Speech-Language-Hearing Association, "Research on Developmental Language Disorders - Where's the Beef?", Atlantic City, NJ.

Speaker, Columbia University, "Temporal Processing in the Nervous System - Implications for Speech", New York.

Speaker, Brown University, "Cognitive Neuroscience Approaches to the Study of Language", Providence, Rhode Island.

Speaker, NIDCD and the American Speech-Language-Hearing Foundation Research Mentorship and Training In Communication Sciences and Disorders, "Training the Next Generation of Cognitive Neuroscientists", Bethesda, MD.

Speaker, Developmental Neuropsychology Course, "Neurobiological Foundations of Speech and Language" London, England.

Speaker, Center for Neuroscience, University of Pittsburgh, "In Speech Perception, Time is of the Essence", Oglebay, W. VA.

Speaker, Fondation IPSEN, Temporal Coding in the Brain, "For Speech Coding in the Brain, Time is of the Essence", Paris, France.

Speaker, University of Pittsburgh Medical Center, Child Neurology Society Meeting, "Early vs. Late Information Processing: Which is it in Autism", Orlando, Florida.

NIDCD Fifth Anniversary Speaker, "For Speech and Language, Time is of the Essence", Bethesda, MD.

Panel Organizer and Speaker, Society for Neuroscience, "Who is Training the Next Generation of Cognitive Neuroscientists", Washington, DC.

Speaker, The Association for Child Psychology & Psychiatry, "Neurobiological Foundations of Speech and Language", London, England

Speaker, Center for Neuroscience, University of Pittsburgh, CNUP, Seventh Annual Retreat, "In Speech Perception, Time is of the Essence, Oglebay, VA

Speaker, Fondation IPSEN pour La Recherche Therapeutique Conference, "For Speech Coding in the Brain, Time is of the Essence", Paris.

Speaker, Satellite Symposium to the Annual Meeting of the Society for

Neurosciences--Decade of the Brain, “Neurobiological Foundation of Language Development and Disorders”, Washington, DC.

1994 *Speaker*, **HFSP Frontier Meeting**, “Temporal Processing in the Nervous System: Implications for the development of Phonological Systems”, Kanagawa, Japan.

Speaker, **Sixth Annual Meeting Winter Conference on Neural Plasticity**, “Organization of Language”, Grenada, Caribbean

Speaker, **McDonnell-Pew Center for Cognitive Neuroscience**, “Neurobiological Basis of Speech: A case for the Preeminence of Temporal Processing, San Diego, CA.

Speaker, **Society of Biological Psychiatry**, “Neurodevelopmental Disorders; Implications for Psychiatry”, Philadelphia, PA.

Speaker, **Child Language Symposium**, Evidence for SLI as a Result of an Auditory Processing Deficit”, Wisconsin.

Speaker, **Disorders of Development & Behavior Update ‘94**, “The Importance of Time in Language Development”, Schneider Children’s Hospital, New York City.

Speaker, **20th Conference on Language and Learning**, “Neurobiological and Neuropsychological Basis of Development Language Impairment”, The Children’s Hospital, Denver, Colorado.

Speaker, **NIMH Neuroscience Center at St. Elizabeth**, Grand Rounds, Washington, DC.

Speaker, **Academia Rodinensis Pro Remediatione**, “Integrative Studies of Temporal Integration”, Malta.

Speaker, **European Academy of Childhood Disability**, “Neural Mechanisms for Processing Temporal Information and Their Disorders”, Bristol, United Kingdom.

Speaker, **Landmark College**, Current Research, Putney, Vermont.

1995 *Speaker*, **New York Academy of Sciences**, “Integrating Brain and Behavior in the Study of Language”, New York City

Speaker, **Cognitive Neuroscience Society**, Linking Theoretical and Clinical Goals in the Study of Language”, San Francisco, CA.

Speaker, **Rockefeller University**, “In the Perception of Speech Time is of the Essence”, New York.

Speaker, **Cornell University**, “In Speech Development and Disorders, Time is of the Essence”, Ithaca, New York

Speaker, **The Extraordinary Brain: Part III (National Dyslexia Research Foundation)**, “Integrating Basic and Clinical Studies on Temporal Integration”, Hawaii.

Speaker, **McGill University**, “In the Perception of Speech Time is of the Essence”, Montreal

Speaker, **Bruton Conference, The University of Texas at Dallas, Callier Center**, Dallas, Texas

1996 *Speaker*, **University of Oxford**, “Expanding the Understanding of Speech”, Oxford, England

Speaker, **Institute of Child Health, University of London**, “Neurobiological Perspectives on Language Development and Disorders”, London, England.

Speaker, **New Jersey Speech-Language-Hearing Association**, “New Breakthroughs in Therapy for LI Children”, E. Brunswick, N. J.

Speaker, **National Institutes of Health**, “Language Learning Impairments:

Integrating Basic Science, Technology, and Remediation”, Bethesda, Maryland
Speaker, The Banbury Center, “ Learning - and Failing to Learn - Language”, Cold Spring Harbor, New York.

Speaker, Children's Seashore house, "Language Learning Disabilities: Integrating Research and Treatment", Philadelphia, PA.

Speaker, Duke University School of Medicine, "Integrating Neuroscience, Technology and Remediation in the Study of Language", Durham, NC.

Speaker, Bell Labs, Lucent Technologies, "In The Perception of Speech, Time is of the Essence”, Murray Hill, NJ.

Speaker, The Salk Institute for Biological Studies, "Integrating Research and Remediation", San Diego, CA.

Speaker, The Banbury Center, "Acquisition of Language-based Skills", Cold Spring Harbor, NY.

Speaker, Northwest Covenant Medical Center, "In the Perception of Speech, Time is of the Essence", Dover, NJ.

Speaker, Rockefeller University, "Developmental Language Learning Disorders: Integrating Research and Remediation", New York.

1997 *Speaker, National Institute of Health, "Integrating Technology, Behavioral Sciences and Neuroremediation"*, Bethesda, Maryland.

Keynote Speaker, British Dyslexia Association, "Developmental Language Learning Impairments: Integrating Basic Science, Technology and Remediation", York, England.

Keynote Speaker Language Literacy Link, "Remediation Strategies for Language and Reading Disorders", San Diego, CA.

Invited Speaker, University of California at San Francisco, "Update on Research on Language Disorders", San Francisco, CA.

Speaker, California Institute of Technology, "Neurobiology of Language Learning Impairments: Integrating Basic Research, Technology and Remediation", Pasadena, CA.

Panel Participant, Education Commission of the States Workshop, Trenton, N.J.

Speaker, International Dyslexia Association, "High-Tech Hope for Children with Learning Disabilities", Studio City, California.

Speaker, 14th Annual Conference on Language Disordered Children, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Chicago, IL

Speaker, British Dyslexia Association, "Neurobiological Basis of Language Development and Disorders", South Africa.

Speaker, 27th Annual Meeting Society for Neuroscience, "Auditory Processing Deficits in Adults with a History of Reading Difficulties", New Orleans, LA

Speaker, American Speech-Language-Hearing-Association, "Temporal Training for Language-Impaired Children: National Clinical Trial Results", Boston, MA.

Speaker, Seventh International Symposium on Neural Regeneration, "Language Learning Disabilities: Implications of Neuroplasticity Research for Novel Approaches to Remediation", Pacific Grove, CA.

Speaker, Twenty-Ninth Annual Meeting of the European Brain and Behaviour Society, "Language Learning Impairments: Integrating Basic Science, Technology and

Remediation", Tutzing, Germany.

Speaker, **Language Literacy Link First Annual Conference**, "High-Tech Hope for Children with Learning Disabilities", San Diego, CA.

Speaker, **Rodin Remediation Academy**, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Stockholm, Sweden.

Speaker, **International Neuropsychological Society's 26th Annual Meeting**, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Orlando, FL.

Speaker, **Northwestern University**, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Chicago, IL.

Speaker, **Langley Porter Institute**, "Language Learning Impairment: Integrating Basic Research and Treatment", San Francisco, CA.

Speaker, **California Institute of Technology**, "Neurobiology of Language Learning Impairments: Integrating Basic Research, Technology and Remediation", Pasadena, CA.

Participant, **Education Commission of the States**, Participation in the ECS National Forum and Annual Meeting, Providence, Rhode Island.

Speaker, **American Psychological Association**, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Chicago, IL.

Speaker, **Alexander Center for Child Development & Behavior**, The Alexander Memorial Lecture, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Bloomington, MN.

Speaker, **Santa Fe Institute**, "Integrating Technology and Neuroscience in the Remediation of Learning Disabilities", Santa Fe, New Mexico.

1998 *Speaker*, IBRO Award Lecture. European Brain and Behavioural Society, "Integrating Basic Science, Research and Technology", Munich, Germany

Panel Participant, **Education Commission of the States Workshop**, Indianapolis, Indiana, Honolulu, Hawaii and Providence, RI.

Speaker, **Cornell Medical Center**, "Language Learning Impairment: From Research to Remediation", White Plains, N.Y.

Speaker, **University of Maryland**, "Remediation Strategies for Language and Reading Disorders", Maryland.

Speaker, **National Alliance on Autism**, "Language Learning Impairments: Integrating Basic Science, Technology and Remediation", Washington, DC

Invited Special Presentation to Dr. Harold Varmus, Director of the National Institute of Health, "Language Learning Impairment: From Research to Remediation", Bethesda, MD

Speaker, **Krasnow Institute for Advanced Study**, "Developmental Language Disorder: Integrating Basic and Applied Research", Airlie, VA

Speaker, **West Coast Neuropsychology Conference**, "Neural Mechanisms Underlying Developmental Language Learning Impairments" & "New Remediation Techniques for the Language Learning Impaired: Field Trial Results With Fast ForWord", San Diego, CA

Speaker, **New Jersey Neuroscience Symposium**, "Language Learning Impairments: From Research to Remediation", Newark, N.J.

Speaker, **Education Commission of the States**, "Implications of Brain Research for Language and Reading Acquisition", Milwaukee, Wisconsin

Speaker, **Educational Records Bureau**, "Language Learning Disabilities: From

Research to Remedy”, New York City

Speaker, The International Dyslexia Association, “Fast ForWord: A research Update”, Princeton, NJ

Speaker and Conference Co-Organizer, 1st Meeting of the Neurobiology Research Consortium, “Intensive Intervention and Training in Language Impaired Children”, Ithaca, NY

Speaker, National Academy of Neuropsychology, “Developmental Language Learning Impairments: Integrating Research and Remediation”, Washington, DC

Speaker, National Dyslexia Research Foundation, “Language Learning Impairment: Integrating Research and Remediation”, Hawaii

Colloquium Speaker, Stanford University, “Neurobiological Basis of Speech”, Stanford, CA

Speaker, Education Commission of the States, “Language Learning Impairment: Integrating Research and Remediation”, Trenton, N. J.

Symposium Speaker, Canadian Speech Hearing Language Association, “Central Auditory Processing Disorders”, Halifax, Nova Scotia

Pediatric Grand Rounds Speaker, New York University, “Developmental Language Learning Disabilities, New York, NY

Speaker, University of California – Los Angeles 2nd Annual Learning Disorders Symposium, “Language Learning Disorders: From Research to Remediation”, Los Angeles, CA

Speaker, Cambridge University Center for Brain Repair 5th Annual Symposium, “Neurobiological Basis of Normal and Aberrant Speech and Language Development”, Cambridge, England

Speaker, Vineland Public Schools, “Language Learning Impairment: Integrating Research and Remediation”, Vineland, NJ

Speaker, Third Neurobiology Research Conference, Kennedy Krieger Institute, “Approaches to Early Assessment of Children with Early Brain Insult”, Baltimore, MD.

1999 *Keynote Address, International Conference of the Learning Disabilities Association of America, “Language Learning Disabilities: Integrating Research, Technology and Remediation”, Atlanta, Georgia*

Panel Discussion, Association for Supervision and Curriculum Development, “Neuroscience and Education”, San Francisco, CA

Featured Speaker, Association for Supervision and Curriculum Development, “Language Learning Disabilities: Integrating Research, Technology and Remediation”, San Francisco, CA

Speaker, University of Oulu, 4th European Conference of Audiology, “Developmental Language Learning Impairments: Integrating Research and Remediation”, Oulu, Finland

Featured Lecture, Society for Behavioral Medicine, “Neurobiology of Language Learning Impairment”, San Diego, CA

Speaker and Conference Co-Organizer, Rodin Remediation Academia, “Neurobiology of Language Learning Impairment”, Tokyo, Japan

Speaker, Association for All Speech Impaired Children (AFASIC), “Neurobiology of Language Learning Impairment”, York England

Speaker, Nelson Butters’ West Coast Neuropsychology Conference, “Fast ForWord Remediation Techniques for the Language Learning Impaired: Recent

Development and Findings”, San Diego, CA
Congressional Briefing, Congressional Biomedical Research Caucus, Joint Steering Committee for Public Policy, “Learning Disabilities”, Washington, DC
Speaker, Stanford University, “Language Learning Impairments: Integrating Basic Science, Technology and Remediation”, Palo Alto, CA
Invited Speaker, Scientific Learning Regional Conference, “Congressional Briefing on Learning Disabilities”, Georgetown, MD
Featured Speaker, Rutgers University Foundation Luncheon, “Learning Disabilities”, New Brunswick, NJ
Invited Speaker, Scientific Learning Regional Conference, “Congressional Report on Learning Disabilities”, Berkeley, CA
Conference Co-Organizer and Speaker, Santa Fe Institute Conference on Brain Development, “Overview”, Santa Fe, NM
Invited Speaker, Scientific Learning Regional Conference, “Update on Research in Learning Disabilities”, Chicago, IL
Featured Speaker, Promising Practices for Youth at Risk, Interaction between Social/Emotional and Language Disorders”, Chicago, IL
Invited Colloquium Speaker, University of Minnesota Medical School, “Language Learning Disabilities, Integrating Research and Remediation”, Minneapolis, Minnesota
Conference Co-Organizer, Developmental Cognitive Research Consortium, London, England
Keynote Speaker, European Association of Child Development, “Language Learning Impairments: Integrating Research and Remediation”, London, England
Session Chair, Society for Neuroscience, Cognition: Language Imaging”, Miami, FL
Press Conference Moderator, Society for Neuroscience, “Press Conference on Overcoming Language Disabilities”, Miami, FL
Keynote Speaker, European Congress on Pediatric Neurology, “Language Learning Disabilities: From Research to Remediation”, Nice, France
Conference Co-Organizer and Speaker, National Institutes of Health Conference on Adaptive Learning: Interventions for Verbal and Motor Deficits, “Language Impairments and Their Remediation, Bethesda, MD
AFASIC Third International Symposium Speech and Language Impairments: From Theory to Practice, University of York, **“Integrating Cognitive Neuroscience with Remediation”, London, England**
Library of Congress, Frontiers for the Mind in the Twenty-First Century, **Washington, DC**

2000 *Speaker, Laboratoire de Psychologie Experimentale*, Time in Audition Workshop, Paris, France
Speaker, National Dyslexia Research Foundation Conference, “Language and Reading” Crete, Greece
Speaker, Brain Connection Conference, “Brain Research and Practices”, San Francisco, CA

Presidential Special Lecture, American Psychological Association, Chicago

2004 Speaker, **7th Extraordinary Brain Symposium**. Como, Italy
Keynote Speaker, Council for Greater City Schools, Baltimore, MD
Speaker, New York University, “Language Learning Impairments: From Research to Remediation”, New York City
Distinguished Lecture, “Improving Language and Literacy is a Matter of Time”, Austin TX

2005 *Speaker, Environmental and Genetic Influences on Neurocognitive Development*, Marseille, France
Presidential Symposium, Society for Neuroscience, Washington, DC
Featured Lecture, Philosophical Society of America, Philadelphia, PA
Featured Speaker, Beth Israel Symposium on Dyslexia, New York, NY

Keynote Speaker, International Neuropsychological Society, Zurich, Germany
Workshop Speaker, International Neuropsychological Society, Zurich, Germany
Endowed Speaker, Mildred Trotter Lecture, Washington University School of Medicine, St. Louis MO
Keynote Speaker, Center for Quality Leadership, Laguna Beach, CA
Keynote Speaker, Scientific Learning Clinician’s Visionary Conference, San Diego, CA
Keynote Speaker, Scientific Learning Superintendent’s Executive Forum, Orlando, FL
Keynote Speaker, Scientific Learning Executive Forum, Scottsdale, AZ

2006 Scientific Learning, Superintendent’s Executive Forum, Orlando, FL
Scientific Learning, Visionary Conference, San Diego, CA.
Center For Quality Leadership Conference, Laguna Beach, CA.
Plenary Lecture International Neuropsychology Society, , Zurich, Switzerland
International Neuropsychology Society, Continuing Education Course, Zurich, Switzerland
28th Annual Mildred Trotter Lecture Washington University School of Medicine, , St. Louis, MO.
Invited Lecturer, American Association of School Curriculum Director’s
Keynote Speaker West Coast Neuropsychology Conference, San Diego, CA
Keynote Speaker Scientific Learning Visionary Conference, San Diego, CA
Keynote Speaker Center for Quality Leadership Conference, Laguna Beach, CA

2010 *Invited Speaker* Big Task Weekend, Pasadena, CA
Invited Speaker NSF Science of Learning Center’s Principle Investigator’s Annual Meeting
Keynote Speaker American Association of School Administrator’s Annual Meeting, Arlington VA

2011 *Keynote Speaker*: Minnesota School Principal’s Annual Conference
Invited Speaker: Institute of Child Health Developmental Neuropsychology Symposium , London England
Music, Brain and Education, Newark, NJ
Invited Speaker Music, Brain and Medicine, NYAS, New York, NY

X-Prize Foundation Visioneering Meeting, Los Angeles, CA
University of California at Riverside, Neuroscience/Psychology Colloquium
Invited Symposium International Mind, Brain and Education (IMBES) Annual Meeting,
San Diego, CA
Invited Speaker University of California San Diego, Cognitive Neuroscience
Keynote Address: Advances and Perspectives in Auditory Physiology, D.C.

2. *Papers Presented at Scientific Meetings*

1973 **Experimental Psychological Society**, "Auditory Processing in Childhood Developmental Dysphasia," Cambridge, England.

1974 **Academy of Aphasia**, "Auditory Perception in Language Development and Disorders," Arlie, Virginia.

Acoustical Society of America, "Developmental Dysphasia: A Defect of Perception, Not Language?," New York, New York.

International Neuropsychology Symposium, "Defects of Perception in Children with Developmental Language Disabilities," Boston, Massachusetts.

1975 **Acoustical Society of America**, "Perception and Production of Stop Consonants in Developmental Dysphasic Children," Austin, Texas.

International Neuropsychology Symposium, "The Relation Between Defects of Perception and Defects of Production in Language Impaired Children," Tampa, Florida.

American Speech and Hearing Association, "Impairment of Auditory Perception and Language Comprehension in Residual Adult Aphasia," Washington, D.C.

American Speech and Hearing Association, "Perception and Production of Stop Consonants in Developmental Dysphasia," Washington, D.C.

1976 **Acoustical Society of America**, "What Can Computer Synthesized Speech Tell Us About Language Comprehension in Adults with Residual Dysphasia?," Washington, D.C.

1977 **Society for Neuroscience**, "Perceptual Constancy for Vowel Contrasts in Normal and Language Delayed Children," Anaheim, California.

Acoustical Society of America, "Auditory Perception, Phonics and Reading Disabilities in Children," Miami, Florida.

1978 **American Speech and Hearing Association**, "Analysis of Receptive Language Tests for Selecting Language Delayed Children," San Francisco, California.

Acoustical Society of America, "Identification of a /sa/ to /sta/ Continuum by Normally-Developing and Language-Delayed Children," Honolulu, Hawaii.

Acoustical Society of America, "Effect of Acoustic Cue Redundancy on Perception of Stop-Consonant Vowel Syllables by Language-Delayed Children," Honolulu, Hawaii.

1979 **International Neuropsychology Symposium**, "The Relation Between Acoustic Processing Deficits and Verbal Deficits in Developmental Dysphasia," New York, New York.

1980 **Academy of Aphasia**, "Temporal Perceptual Abilities Correctly Classify Children as Normal or Language Impaired," Cape Cod, Massachusetts.
Acoustical Society of America, "Acoustic Analysis of Some Speech Discrimination Abilities of Normal and Language Impaired Children," Los Angeles, California.
American Association of Phonetic Sciences, "Perception of Stop Consonant-Vowel Syllables with Varying Rates of Acoustic Formant Transition," Los Angeles, California.
International Neuropsychology Symposium, "Acoustical Analysis of Speech Production and Perception Disorders in Children with Developmental Aphasia," San Francisco, California.

1984 **Academy of Aphasia**, "Empirical Evaluations of the Relationship Between Deficits in Auditory Temporal Analysis and Developmental Language Disorders," Los Angeles, California.
American Speech-Hearing-Language Association, "Evaluation of the Outcome of Preschool Language Disorders," San Francisco, California.
Orton Dyslexia Society, "Issues for Subject Selection in Developmental Research," San Diego, California.

1985 **International Neuropsychology Society**, "Piracetam Effects on Dyslexia: Results from the San Diego Study," San Diego, California.
Psychonomic Society, "Neuropsychological Profiles Associated with Developmental Language Disturbance," Boston, Massachusetts.
Orton Dyslexia Society, "The Effects of Piracetam in Treating Reading Impairment Over an Entire School Year," Chicago, Illinois.
American College of Neuropsychopharmacology, "Piracetam Effects on Reading and Event-Related Potentials in Dyslexic Children," Maui, Hawaii.

1986 **International Neuropsychology Society**, "Temporal Processing in Deaf Signers," Denver, Colorado.

1987 **Society for Neuroscience**, "Cerebral Morphology on Magnetic Resonance Imaging in Developmental Dysphasia", New Orleans, Louisiana.
Academy of Aphasia, *Special Topic Paper*, "Developmental Language Disorders: State-Of-The-Art Review of Research", Phoenix, Arizona.
California Speech-Language-Hearing Association, "Evaluation of the Outcome of Preschool Impairments in Language Development", San Diego, California.

1988 **International Neuropsychological Society**, *Symposium Chair and Presenter*, "Neuroanatomical, Neuropsychological and Neurolinguistic Studies of Developmental Language/Reading Impairment", New Orleans, Louisiana.
International Neuropsychological Society, *Symposium Chair and Discussant*, "Adult Phenotypes of Developmental Dyslexia", New Orleans, Louisiana.
Society for Neuroscience, "Genetic and Hormonal Models of Developmental

Language/Reading Disorders", Toronto, Canada.

1989 **International Neuropsychological Society**, *Symposium Chair and Presenter*, "New Frontiers in the Cognitive Neuroscience of Developmental Language and Reading Disorders", Vancouver, British Columbia.

American Association of Neurology, "Brain Morphology on MR in Language/Reading-Impaired Children", Chicago, Illinois.

New York Neuropsychology Society, "Neurodevelopmental Studies of Language/Reading Disorders", New York, New York.

American Association of Neurology, "Brain Maturation on MRI After Eight Years of Age", Chicago, Illinois.

Society for Research in Child Development Symposium, "Effects of Focal Brain Injury on Early Communication and Language", Kansas City, Missouri.

Society for Biological Psychiatry, "Behavioral/Emotional Profiles of Language Impaired Children", San Francisco, California.

Society for Biological Psychiatry, "Unexpected Sex-Ratios in Families of Language/Learning Impaired Children", San Francisco, California.

Association for Children with Learning Disabilities 26th International Conference, "Metabolic Correlates of Learning Disability. Research in Infant Assessment", Miami, Florida.

American Psychological Society, "Auditory Attentional Capacity Deficits in Disorders of Language Acquisition", Arlington, Virginia.

Child Neurology Society, "Patterns of Visual Memory Dysfunction in Children with Cystinosis", San Antonio, Texas.

Society for Neuroscience, "Comprehension and Expression of Affect in Language Impaired Children", Phoenix, Arizona

International Neuropsychological Society, "Modality-Specific Selective Attention Deficits in Developmental Dysphasics", Vancouver, B.C., Canada.

World Congress of Neurology, "Longitudinal Outcomes of Specific Developmental Language Disorders; From Dysphasia to Dyslexia", New Delhi, India.

1990 **Society for Neuroscience**, "Decoupling of Pet Measured Left Caudate and Cortical Metabolism in Adult Dyslexia", St. Louis, Missouri.

New York Orton Society, "Longitudinal outcomes of language impairments, New York.

International Neuropsychological Society Nineteenth Annual Meeting, "Structural and Functional Correlates of Developmental Language/Learning Disorders", San Antonio, TX.

American College of Neuropsychopharmacology Annual Meeting, "Maturation of Cerebral Cortex Observed *In Vivo* During Adolescence", San Juan, Puerto Rico

1991 **Society for Neuroscience**, "Prenatal Risk and Corpus Callosum Development in Language and Learning Impaired Children", New Orleans.

1993 **Society for Research in Child Development**, "Assessing auditory temporal processing in 6 to 9 month old infants", New Orleans.

Society for Neuroscience, "Induced Microgyria & Auditory Temporal

Processing in Adult Rats: A Model for Language Impairment?", Washington, D.C.

Society for Neuroscience, "Flicker Fusion in Normal and Dyslexic Human Subjects", Washington, D.C.

American College of Neuropsychopharmacology Conference, "The Essence of Time in Developmental Psychopathology", Hawaii.

1994 **American Speech-Language-Hearing Association**, "Temporal Information Processing in the Nervous System: Special Reference to Dyslexia and Dysphasia, Albuquerque, NM.

27th Annual Meeting of the International Society for Developmental Psychobiology, "Induced Microgyria & Auditory Processing Deficits in Male but not Female Rats: Geschwind Revisited", Islamorada, Florida

American Speech-Language Hearing Association, "Verb Morphology in SLI Children: Longitudinal Data", New Orleans.

Cognitive Neuroscience Society, "Lateralization for Rapid Auditory Temporal Processing", California.

1995 **Cognitive Neuroscience Society**, "Modification of Auditory Temporal Processing Thresholds in Language Impaired Children", San Francisco, CA.

Cognitive Neuroscience Society, "Lateralization for Rapid Auditory Temporal Processing", California.

Society for Neuroscience, "Gender and Hemispheric Differences for Auditory Temporal Processing, San Diego, CA.

Society for Neuroscience, "Training With Temporally Modified Speech Results in Dramatic Improvements in Speech Perception and Language Comprehension", San Diego, CA.

Society for Neuroscience, "Training Exercises Improve Temporal Processing Abilities in Language-Based Learning Disabled Children (LLDs): Use Dependent Reorganization", San Diego, CA

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Society for Neuroscience, "Modified Speech for Training Language-Based Learning Disabled Children (LLDs)", San Diego, CA.

Society for Neuroscience, "Modification of Auditory Temporal Processing Thresholds in Language-Based Learning Disabled Children", San Diego, CA.

National Orton Dyslexia Society Conference at MIT University, "Language Learning Impairments: Integrating Research and Remediation", Boston, Massachusetts.

American Speech-Language-Hearing Association, "New Therapies for Language Impaired Children: Integrating Basic and Clinical Research", Seattle, WA.

1997 Speech-Hearing Association, “A Case Control Study of Specific Language Impairments in First Degree Relatives”, Boston, Massachusetts.
Society for Neuroscience, “Rapid Training-Driven Improvement in Language Ability in Autistic and Other PDD Children”, New Orleans.
Society for Neuroscience, “Improvements in Language Abilities With Training of Children With Both Attentional and Language Impairments, New Orleans.

1998 American Speech-Hearing Association, “How Do Limitations in Processing Rate Capacity Affect Language Development?”, San Antonio, TX
Society for Neuroscience Abstract, “Impaired Auditory Temporal Processing in Rats with Induced Microgyria, New Orleans.
Society for Neuroscience, Infant Processing of Auditory Temporal Information: Links to Family History and Later Language Outcome, New Orleans.
Society for Neuroscience, “Auditory Processing of Rapid Stimuli and Phonological Processing of Visual Stimuli Involve Common Brain Areas in the Left Inferior Frontal Cortex, New Orleans.
Cognitive Neuroscience, “Neuromagnetic Evidence for Deficits in Temporal Ordering of Brief Tones in Adult Dyslexics, California.

1999 Cognitive Neuroscience Society, “Functional Organization for Rapid Auditory Processing Disrupted in Adult Dyslexics: An fMRI Study”, Washington, DC
4th European Conference on Audiology, University of Oulu, “Rate Processing Constraints in Children With Language Learning Impairments”, Oulu, Finland

2000 American Association for the Advancement of Science, 2000 Annual Meeting and Science Innovation Exposition, “**The Learning Brain-Insights from Language Learning Disabilities**”, Washington, DC

2001 Santa Fe Institute Consortium Meeting, Los Angeles, CA

2002 California Speech Hearing Association, “**Language Learning Impairments: From Research to remediation**”, Monterey, CA

2003 American Educational Research Association, Chicago, Illinois

2004 International Reading Association, “**Neuroscience Approaches to the Study of Literacy: From Brain Research to Classroom Intervention**”, Orlando, Florida
14th Annual American Neuropsychiatric Association Conference, Honolulu, Hawaii
31st Annual Neuropsychology Meeting, Waikiki, Hawaii
Gordon Research Conference on Neural Plasticity, Salve Regina University, Newport, RI
Sixth IBRO World Congress of Neuroscience, Prague, Czech Republic
Santa Fe Institute Conference on Complexity and Biological Systems, Santa Fe, NM
Temple University, Philadelphia, PA
Redwood Neuroscience Institute, Banbury Center, Cold Spring Harbor Laboratory, New York
Reading and Writing Conference, Rutgers University, Newark, NJ
International Reading Association, Toronto, Canada
New York University, Research Colloquium, New York, NY
Rockefeller University, Neurobiology of Learning Seminar Course, New York,
National Institute of Health, Cognitive Rehabilitation Workshop, Bethesda, MD
Oxford-Kobe Seminar on Dyslexia, Japan

The Dyslexia Foundation Extraordinary Brain Symposium, **Como, Italy**
AASA Conference, **San Francisco, CA**
American Association of School Administrators, **Arlington, VA**
Rutgers University, Proseminar in Psychology, **Newark, NJ**

2005 Cognitive Neuroscience Society, **New York City, NY**
American Philosophical Society, **Philadelphia, PA**
Beth Israel Medical Center, **New York, NY**
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PUBLICATIONS

THESIS

Tallal, P. (1973) Auditory Perception in Childhood Developmental Dysphasia. Ph.D. Dissertation, Cambridge University, Cambridge, England.

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