

CURRICULUM VITAE

PART I: General Information

Date Prepared: August 20, 2009

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Place of Birth: New York, New York, USA

Education:

1971	B.A. (Psychology)	City College of City of New York
1975	M.A. (Clinical–Community Psychology)	Boston University
1980	Ph.D. (Clinical–Community Psychology)	Boston University

Predoctoral and Postdoctoral Training:

Clinical Practicums and Internships:

1974–1975	Psychology practicum at Brighton Allston Mental Health Center, Boston, MA
1975–1976	Predoctoral Internship in Clinical Psychology, Harvard University Health Services and Cambridge Guidance Center, Cambridge, MA
1976–1977	Fellow in Clinical Psychology, The Cambridge Hospital, Cambridge, MA
1977–1978	Fellow in Clinical Psychology, Boston University Hospital, Boston, MA
1979–1980	Pre–and postdoctoral fellow in Bio-behavioral Sciences, University Hospital, Boston, MA

Research Fellowships:

1978–1979	NIMH Predoctoral Research Fellow (Dissertation Research), National Research Service Award: "Cognition and Personality in Temporal Lobe Epilepsy" Boston University Medical School (Awarded but not accepted because of financial restrictions).
1978–1979	Research Fellow (Dissertation Research), Neurological Unit, Boston City Hospital; Behavioral Neurology Unit, Beth Israel

Hospital; Neurology Referral Center, University Hospital,
Boston University Department of Neurology.

Licensure and Certification:

1981 Massachusetts Licensed Clinical Psychologist #2722
1986 National Register of Health Service Providers in Psychology #34024
1990 Massachusetts Licensed Health Service Provider

Academic Appointments:

1976–1977 Clinical Fellow in Psychology, Harvard Medical School (HMS)
1977–1978 Teaching Fellow in Psychiatry (Psychology), Boston University Medical School (BUMS)
1978–1980 Graduate Teaching Assistant in Psychiatry (Psychology), (BUMS)
1980–1983 Instructor in Psychiatry (Psychology), (BUMS)
1983–1992 Assistant Professor of Psychiatry (Psychology), (BUMS)
1983–1986 Part-time Affiliate Assistant Professor of Psychology, Clark University
1984–1989 Faculty, Massachusetts School of Professional Psychology
1985–1992 Instructor in Psychology, Department of Psychiatry (HMS)
1992–1996 Assistant Professor of Psychology, Department of Psychiatry (HMS)
1997- 2004 Associate Professor of Psychology, Department of Psychiatry (HMS)
2004- Professor of Psychology (HMS), Department of Psychiatry in the MMHC Public
Psychiatry Division of the Beth Israel Deaconess Medical Center

Hospital Appointments:

1977–1980 Special Scientific Staff, Clinical Psychology, University Hospital, Boston
1980–1981 Associate Staff, Psychology, University Hospital, Boston
1981–1985 Active Staff, Psychology, University Hospital, Boston
1985–1988 Courtesy Staff, McLean Hospital, Belmont, MA
1985– Professional Staff, Massachusetts Mental Health Center (MMHC), Boston
1986–2005 Professional Staff, Brockton–West Roxbury VA Hospital, Brockton, MA
1988–1998 Courtesy Staff, University Hospital, Boston
1993–2007 Clinical Associate in Psychology, (Psychiatry), Massachusetts General Hospital
1994– Clinical Staff, Allied Scientific Associate in Psychology (Psychiatry), Beth Israel
Deaconess Medical Center, Boston
2007- Research Associate, Psychiatry Service, Massachusetts General Hospital

Other Professional Positions and Major Visiting Appointments:

1988-2005 Senior Consulting Neuropsychologist at the Brockton VAMC Laboratory of Neuroscience
(R McCarley, Director)
1991-2005 Senior Consulting Neuropsychologist at the Massachusetts General Hospital Pediatric
Psychopharmacology Unit (J Biederman, Director)
1992-2002 Senior Consulting Neuropsychologist at the Massachusetts Department of Mental Health & Harvard
Medical School-Commonwealth Research Center (A Green, Director)
3/98- 4/98 Visiting Professor, Haifa University Psychology, and Technion Psychiatry and Cognitive
Neurology Departments, at Rambam Medical Center, Israel.

11/98-5/01 “Brain Development Working Group”, Mind, Brain, Behavior Initiative, Harvard University

Hospital and Health Care Organization Service Responsibilities (1978–Present):

1978–1982 Team leader and neuropsychological consultant to inpatient psychiatry service, University Hospital, Boston

1979–1980 Neuropsychological consultation to Department of Neurology, University Hospital and Solomon Carter Fuller Mental Health Center, Boston

1980–1982 Consulting therapist, clinical Bio-behavioral sciences unit, University Hospital, Boston

1981– Private practice, psychotherapy, psychological and neuropsychological testing, Brookline, MA

1982–1984 Coordinator of adult psychology training at University Hospital, Boston, Clinical neuropsychologist and consultant to inpatient psychiatry at University Hospital, Boston

1984–1985 Associate director of education and research training, schizophrenia research ward of Boston University Medical School and Solomon Carter Fuller Mental Health Center, Boston

1985–1987 Day Hospital clinical consultant and supervising psychologist to a multidisciplinary team and to psychology interns at Massachusetts Mental Health Center (MMHC)

1986–2002 Head of Adult Neuropsychology services, training and research; Director, Laboratory of Neuropsychology and Director, Adult Neuropsychology clinic at MMHC

Major Administrative Responsibilities:

1978–1982 Team Leader, Inpatient Psychiatry, University Hospital, Boston

1982–1984 Coordinator of Adult Psychology Training, University Hospital, Boston

1986–2002 Head of Adult Neuropsychology Services, Training and Research, and Director, Adult Neuropsychology Clinic at Massachusetts Mental Health Center, Boston

1986- Director, Laboratory of Neuropsychology, Massachusetts Mental Health Center,

1993-2002 Director of Post-doctoral Fellowship in Clinical Neuropsychology, Combined program of the Massachusetts Mental Health Center and Beth Israel Deaconess Medical Center

1997-2003 Co-Director of Massachusetts Mental Health Center Psychology Continuing Education

2001-2005 Director of Neuropsychological and Neuroimaging Studies of the Harvard Institute of Psychiatric Epidemiology and Genetics (M Tsuang, Director)

2001-2007 Director of Neuropsychology and Cognitive Neuroscience, Stanley Foundation Research Center for the Prenatal Origins of Schizophrenia and Bipolar Disorders: New England Family Studies (S Buka, ScD, Director)

2002- Director, Neuroimaging at the Massachusetts General Hospital Clinical and Research Program in Pediatric Psychopharmacology (J Biederman, Director)

2002- Director of the Commonwealth of Massachusetts, Department of Mental Health-Harvard Medical School Department of Psychiatry Research Center: “Center of Excellence for Clinical Neuroscience and Psychopharmacological Research”

2003-2005 Associate Chair for Research, Harvard Medical School Department of Psychiatry at Massachusetts Mental Health Center

2005- Vice Chair for Research, Massachusetts Mental Health Center Public Psychiatry Division of the Beth Israel Deaconess Medical Center, Harvard Medical School

Major Committee Assignments:

National and Regional:

1985-1986	Office of External Reviews-Merit Reviews	Ad Hoc Reviewer VA
1988-1988	Office of External Reviews-Merit Reviews	Ad Hoc Reviewer VA
1991-1991	Clinical Psychopathology Review Committee	Ad Hoc Reviewer NIMH
1993-1993	Office of External Reviews-Merit Reviews	Ad Hoc Reviewer VA
1998-1998	Middleton Award Review Committee	Ad Hoc Reviewer VA
1998-1999	Reviewer of Post-doctoral Fellowships	Ad Hoc Reviewer Wellcome Trust
2000-2000	Office of External Reviews	Ad Hoc Reviewer VA
2001-	UCLA/HELP Program (Learning Disabilities)	Advisory Board Reviewer
2003-2006	Subcommittee for Mental Health and Behavioral Sciences (Chairperson, 12/04, 6/05, 11/05, 5/06)	VA Merit Review Committee
2003-2003	RAND Special Advisory Panel for MATRICS	Reviewer
2003-2005	Special Advisory Panel for MATRICS	Member
2004-2004	The Ontario (Canada) Mental Health Foundation	Ad Hoc Reviewer
2004-2004	Adult Psychopathology & Disorders of Aging Section	Ad Hoc Reviewer NIMH
2004-	Ad Hoc member MATRICS Neurocognition Committee	Member
2006-2010	Adult Psychopathology & Disorders of Aging Section	Member NIMH Review Comm. Chartered Member
2007-2008	Special Advisory Panel for CNTRICS	Member
2007-	Advisory panel for DSM-V (Disruptive Disorders)	Ad Hoc Member
2008-2008	RAND Special Advisory Panel for MATRICS	Reviewer

Local (Hospital) or Harvard Medical School Department Wide:

1988–1989	Massachusetts Mental Health Center (MMHC)–Member, Committee on the Status of Women
1988–1989	Secretary of Medical Staff (Member of Medical Executive Committee) at MMHC
1989–1990	Vice President of Medical Staff (Member of Medical Executive Committee)
1990–1991	President of the Professional Staff (Formerly "Medical Staff"), Member of Medical Executive Committee
1993–1994	Massachusetts Mental Health Center: Private Practice Committee Member
1994–1995	Massachusetts Mental Health Center: Grand Rounds Committee Member
1994–2005	Massachusetts Mental Health Center: Research Committee Member
2001 -	Harvard Medical School Department of Psychiatry: Research Committee
2001-2002	Commonwealth Research Center of the Massachusetts Department of Mental Health and Harvard Medical School: Advisory Board
2003-2005	Massachusetts Mental Health Institute: Board Member
2006	Boston VA Medical Center – Ad Hoc Member of Chief Psychologist Search Committee
2007-2008	Massachusetts General Hospital – Ad Hoc Search Committee for Director of Neuroimaging in the Psychiatric Neuroscience Program.
2007-2009	Beth Israel Deaconess Medical Center Massachusetts General Hospital – Ad Hoc Search Committee Member for Director of Neuropsychology in the Psychiatry Dept.
2009	Harvard Medical School Department of Psychiatry: Promotion Committee for a Professor

Memberships, Offices and Committee Assignments in Professional Societies:

1980–	Massachusetts Psychological Association (on Program Committee, May 1980 annual meeting)
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- 1980– International Neuropsychological Society (INS)
- 1980– American Psychological Association (APA) Division 40 (Clinical Neuropsychology)
- 1980–1994 APA Division 12 (Clinical), 29 (Psychotherapy)
- 1986–1994 APA Division 39 (Psychoanalysis)
- 1989– Massachusetts Neuropsychological Society (MNS)
- 1989–1990 INS Program Committee (1990 Winter Meeting)
- 1992–1995 Massachusetts Neuropsychological Society, Board of Directors (Member at Large) and Co–Chair, Continuing Education Committee
- 1994–1997 President, Massachusetts Neuropsychological Society (3 year term)
- 1995–1996 INS Program Committee (1996 Winter Meeting)
- 1997– Society of Biological Psychiatry
- 2002– Fellow, American Psychopathological Association
- 2005– International Society of Psychiatric Genetics
- 2006– International Early Psychosis Association
- 2006– Schizophrenia International Research Society
- 2006– American College of Neuropsychopharmacology
- 2006-2007 International Congress on Schizophrenia Research (2007 Annual Meeting, Program Comm.)

Community Service Related to Professional Work: Lectures in public and private schools.

- 2005- “The Ryan Licht Sang Foundation – Medical Committee” at Mass General Hospital

Editorial Boards:

Journals:

- 1987- 1989 The Harvard Medical School Mental Health Letter
- 1995- 2000 The Harvard Medical School Mental Health Letter
- 1997- 2007 Neuropsychology
- 2001- 2007 Journal of Psychopathology and Behavioral Assessment
- 2007- Journal of Attention Disorders
- 2007- Neuropsychology (**Associate Editor**)
- 2008- Schizophrenia Bulletin

Ad Hoc Editorial Reviewer (from 1984): Schizophrenia, Psychoses, Attention Deficit Disorder, Epilepsy, Neuropsychology, Psychopathology:

- American Journal of Psychiatry
- Archives of General Psychiatry
- Bipolar Disorders
- Biological Psychiatry
- Brain
- Brain and Behavioral Sciences
- Child Neuropsychology
- Harvard Review of Psychiatry
- Journal of Abnormal Psychology
- Journal of American Medical Association
- Journal of Attention Disorders
- Journal of Clinical and Consulting Psychology
- Journal of Clinical and Experimental Neuropsychology

Journal of the International Neuropsychological Society
Journal of Neuropsychiatry and Clinical Neuroscience
Journal of Nervous and Mental Disease
Journal of Psychiatric Research
Neuropsychiatric Genetics
Neuropsychology Review
Neuropsychopharmacology
Psychiatry Research
Psychological Bulletin
Schizophrenia Research
Schizophrenia Bulletin
Science

Awards and Honors:

1967-1971 New York State Regents Scholarship (undergraduate study)
1973-1976 Boston University, Teaching Fellowship in Psychology
1978-1979 Boston University, Graduate Scholarship in Psychology
1986-1987 Peter B. Livingston Fellowship Award of the Harvard Medical School at MMHC
1988 James S. McDonnell Foundation Summer Institute Trainee in Cognitive Neuroscience (at Harvard University)
1994-1997 Theodore and Vada Stanley Foundation Award
1994-1995 Nominated for Harvard Medical School 1995 Award for Excellence in Mentoring
1995-1996 Nominated for Harvard Medical School 1996 Award for Excellence in Mentoring
1997-2003 Theodore and Vada Stanley Medical Research Institute Award
1998-2002 National Association for Research in Schizophrenia and Depression (NARSAD) Experienced Investigator Award
2004-2006 National Association for Research in Schizophrenia and Depression (NARSAD) Experienced Investigator Award
2008-2009 Nominated for Harvard Medical School 2009 William Silen Lifetime Achievement in Mentoring Award for Excellence in Mentoring

Part II: Research, Teaching, and Clinical Contributions

A. Narrative Report:

1). Research Contributions: My main contributions have been to conceptualize and identify the neuropsychology of schizophrenia and attention deficit/hyperactivity disorder (ADHD), and to help elucidate the neurobiological vulnerability to these disorders. I have utilized neuropsychological tools to evaluate developmentally-based executive (cognitive control) and memory dysfunctions, and pursued understanding of the structural and neurophysiological underpinnings of these deficits.

My work, beginning with a paper published in 1983 (an extensive integrative and theoretical review of the world literature (1920-1982) evaluating brain dysfunction in schizophrenia), has influenced the fields of psychology and psychiatry in contributing to an understanding that many psychiatric disorders have demonstrable neuropsychological deficits, a now well-accepted fact. Among the key hypotheses was the central idea of frontal lobe dysfunction in schizophrenia (one of the first modern published treatises on this idea). I proposed one of the first neuropsychological “network” hypotheses of schizophrenia, suggesting that dysfunction in an attentional network involving the frontal lobe, limbic system, and deep sub-cortical regions

including the thalamus and brain stem, was core to schizophrenia. Over the past 2 decades, my students, colleagues, and I have addressed various aspects of this dysfunctional network. This includes studies of attention, olfaction, set-shifting and perseveration, working and declarative memory. I have suggested, by studies of olfaction, that schizophrenia involves impairments in orbital prefrontal cortex, as well as the dorsolateral prefrontal dysfunctions reported by many investigators. More recently, I have focused on the neurobiological vulnerability to schizophrenia using structural and functional MRI. My hypothesis is that the vulnerability to schizophrenia reflects specific deficits in prefrontal-hippocampal circuitry. I am now testing these ideas in persons at high risk for schizophrenia and bipolar disorder and determining whether such deficits stem from genetic factors alone, or their interaction with perinatal complications.

Beginning in 1991, I initiated a series of studies, in collaboration with Drs. Biederman and Faraone, systematically addressing the neuropsychology of ADHD. Over 2000 research subjects have been tested using the same measures. This has resulted in multiple publications demonstrating executive dysfunctions in ADHD, and an emphasis on response inhibition, working memory and vigilance. The current phase of this effort is to utilize cognitive neuroscience paradigms to more precisely understand structural and functional aspects of abnormal frontal-striatal circuitry in ADHD and link these to genetic and perinatal factors. The imaging work is carried out at Massachusetts General Hospital.

2). Teaching Contributions: I am a preceptor in the HMS NIMH funded Clinical Research Training Program (S Hauser, R McCarley, M Shenton, Directors). I was for many years a core faculty member of the MMHC Clinical Psychology Internship Program (J Wolf, Director), and I was Director and Founder of the combined MMHC-Beth Israel Deaconess Post-doctoral Training Program in Neuropsychology (for 9 years, 1993-2002), and the Co-Director of Psychology Continuing Education at MMHC. I have developed new courses in Neuropsychology attended by over 120 trainees in the HMS Psychiatry department. My mentoring activities over the past 20 years has contributed to academic appointments for over 30 of my trainees, and independent research funding for many. This includes: 3 MMHC Research and Education fellows, 6 Harvard Department of Psychiatry Peter Livingston Award fellows, 1 Harvard Department of Psychiatry DuPont Warren Award fellow, 10 NARSAD Young Investigators, 1 Eli Lilly Pilot Research fellow in Child Psychiatry, 1 Scottish Rite Dissertation fellow, 1 National Research Post-doctoral fellow, 1 NIH "K" awardee, and 2 Sackler Foundation fellows. A number of these trainees have received RO1's or mentored K awards. I have also supervised more than 60 clinical trainees, many of whom are successful neuropsychologist clinicians or training directors.

3). Clinical Contributions: My specialization is in neuropsychological assessment of teenagers and young adults (ages 14-30), particularly those with developmental neuropsychiatric disorders at the borderland of neurology, psychiatry and psychology (schizophrenia and spectrum disorders, attention deficit disorders, learning disabilities, temporal lobe epilepsy). I have over 30 years of experience as a clinical psychotherapist, and as a consultant psychodiagnostician and neuropsychologist.

B. Research Funding Information:

Past:

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| 1978–1979 | NIMH RO1: MH–28696 and MH–32552: Neuropsychologist "Neuropsychiatric Aspects of Intermittent Acute Porphyria" (Peter Channing, M.D., PI, HMS). |
| 1980–1983 | NIMH RO1: MH–26183: Associate Project Director "Inter-hospital (McLean–Boston University) Study of Psychotherapy of Schizophrenia" |

(Peter Knapp, M.D., PI, BUMS).

- 1981–1984 **Principal Investigator**, NIMH Small Grant: MH–37156: "CT Scan, Neuropsychology and Outcome in Schizophrenia" (Larry J. Seidman, Ph.D., BUMS).
- 1986–1987 **Principal Investigator**, Peter B. Livingston Fellowship Fund Study (MMHC/HMS): "CT Scan and Neuropsychologic Correlates of Psychotherapy Outcome and Process in Schizophrenia" (Larry J. Seidman, Ph.D., HMS).
- 1986–1988 US Department of Veterans Affairs: Neuropsychologist Consultant: "Neuropsychological Functioning and Genetic Risk Prediction in Schizophrenia" (Stephen Faraone, Ph.D., PI, HMS)
- 1987-1991 NIMH RO1 41874: Neuropsychologist Consultant: "Drug Response and Genetic Factors in Schizophrenia" (Ming Tsuang, M.D., Ph.D.,PI, HMS)
- 1987–1989 **Principal Investigator**, Commonwealth Research Center Study (MMHC): "Sensory Integration, Motor Planning (Praxis) and Neurocognitive Performance in Schizophrenia: A Pilot Proposal" (Larry J. Seidman, Ph.D., HMS).
- 1989–1991 NIHM RO1: MH–44277: Investigator: "Sub–Typing Schizophrenia: An Epidemiological Approach" (Ming Tsuang, M.D., Ph.D., PI, HMS).
- 1989-1991 **Co-Principal Investigator/Co-Mentor**, NARSAD Young Investigator: "Gender, Neuropsychology and Cerebral Dominance in Schizophrenia" (Jill Goldstein, Ph.D., PI, HMS).
- 1990–1995 NIMH R18: MH–48080: Investigator: "Apartments vs. Evolving Consumer Households for Homeless Mentally Ill Persons" (Stephen Goldfinger, M.D., PI, HMS).
- 1992–1994 NIMH SDA: MH–00976: Investigator: "Gender and Brain Dysfunction in Schizophrenia" (Jill Goldstein, Ph.D., PI, HMS).
- 1992–1997 NIMH R29: MH–47353: Neuropsychologist Consultant: "Schizotypal PD: Validity and Relationship to Schizophrenia" (Michael Lyons, Ph.D., PI, BUMS and HMS).
- 1992–1997 NIMH RO1: MH–41314: Neuropsychologist Consultant: "A Prospective High–Risk Study of Attention Deficit Hyperactivity Disorder & Related Disorders" (J Biederman, MD, PI, HMS).
- 1993–2005 NIMH RO1 MH–50647: Investigator: "Neurodevelopmental Study of Schizophrenia" (Ming Tsuang, M.D., Ph.D., PI, HMS).
- 1994–1997 **Principal Investigator**, Theodore and Vada Stanley Foundation: "Functional MRI and Auditory Sustained Attention in First–Degree Relatives of Schizophrenic Patients" (Larry J. Seidman, Ph.D., HMS).

- 1994–1998 NIDA RO1: DA–09447: Investigator: "Twin Study of Consequences of Drug Abuse" (Ming T. Tsuang, M.D., Ph.D., PI, HMS).
- 1995-1998 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: "Longitudinal View of Neuropsychological gains made by homeless individuals with schizophrenia and affective disorders." (Brina Caplan, Ph.D., PI, HMS).
- 1995–1999 NINCDS: NS35208: Investigator: "Learning Disabilities: Symptom Permanence and Consequences" (Lewis Lipsitt, Ph.D., PI, Brown University).
- 1997-1999 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: "Are Memory Deficits in Schizophrenia Reversible? Glucose administration as a selective psychopharmacological probe." (William Stone, Ph.D., PI, HMS).
- 1997-1999 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: "Memory Impairment in Schizophrenia: An MRI study of Semantic Encoding and Prefrontal Dysfunction". (Julie Goodman, Ph.D., PI, HMS).
- 1997-1999 Scottish Rite Foundation: Investigator "Functional MRI of Emotional Circuitry in Schizophrenia: A Comparison of Positive and Negative Symptom Patients" (Hans Breiter, M.D., PI, HMS).
- 1994–2000 NIMH R01: MH–52376: Investigator: "Clozapine or Haloperidol in First Episode Schizophrenia" (Alan Green, M.D., PI, HMS).
- 1995–2000 NIMH RO1: MH–49891: Investigator: "Clozapine vs. Risperidone: An Effectiveness Study" (Alan Green, M.D., PI, HMS).
- 1997-2000 NIMH RO1: MH-56956: Investigator: "Sex and Structural Brain Abnormalities in Schizophrenia-I" (Jill Goldstein, Ph.D., PI, HMS).
- 1996–2001 NIAAA RO1: AA-10586: Investigator: "Twin Study of Vulnerability to Alcoholism" (Michael Lyons, Ph.D., PI, HMS and BUMS).
- 1998-2001 NARSAD Distinguished Scientist Award: Investigator: "Children of Schizophrenia Patients: A Pilot MRI Study" (Ming T. Tsuang, M.D., Ph.D. PI, HMS).
- 1996–2002 Eli Lilly Company: Investigator: "The acute and long-term efficacy of Olanzapine in First-Episode Psychotic Disorders: A Randomized Double-Blind Comparison with Haloperidol" (Alan I. Green, M.D., PI, HMS).
- 1997-2003 **Principal Investigator**: Theodore and Vada Stanley Foundation: "A Functional and Structural MRI study of Brain Abnormalities in Schizophrenic Persons and Their Siblings: Impact of Obstetric and Genetic Factors" (Larry J. Seidman, Ph.D., HMS).
- 1998-2002 **Co-Principal Investigator**, NIMH Small Grant RO3: MH 55748: "Sex and Attention

in Schizophrenia” (Jill Goldstein, Ph.D., PI, HMS).

- 1998-2002 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: “Altered Neural Connectivity Underlying Attention in Schizophrenia: An Integration of Functional, Spectroscopic and Diffusion Weighted MRI Technologies” (Nikos Makris, PI, HMS).
- 1998-2002 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: “Glucose-Induced Enhancement of Memory and Attention in Schizophrenia: Age, Illness Severity and Dose-Dependent Effects” (Robert Fucetola, Ph.D., PI, HMS & Washington U).
- 1998-2002 **Principal Investigator**, NARSAD Experienced Investigator: “Are Medial Limbic and Prefrontal Brain Abnormalities Unique to Schizophrenia? A Functional and Structural MRI Study Using a Bipolar Sib-pair Design” (Larry J. Seidman, Ph.D., HMS).
- 1988–2003 NIMH MERIT MH–43518, Investigator: "Psychopathology and Heterogeneity in Schizophrenia" (Ming Tsuang, M.D., Ph.D., PI, HMS).
- 1998-2003 NIMH RO1 MH 57934: Investigator: “Testing the Validity of Adult Attention Deficit Disorder” (Stephen Faraone, Ph.D, PI, HMS).
- 2000-2002 **Co-Principal Investigator/Sponsor/Mentor**, NARSAD Young Investigator: “Glucose enhancement of memory in schizophrenia: a Functional MRI study to determine neuroanatomical sites of action” (William Stone, Ph.D., PI, HMS).
- 2000-2004 NIH RO1 DA 13196: Investigator: “Cannabis and Schizophrenia: Clozapine vs. Risperidone” (Alan Green, MD, PI, HMS).
- 2001-2004 NIMH R21 MH 62157: Investigator: “Clozapine, Cannabis and First Episode Schizophrenia” (Alan Green, MD, PI, HMS).
- 2002-2004 NARSAD Distinguished Investigator Award (Investigator): “Neuropsychology and Neuroimaging Study of Mania” (Joseph Biederman, MD, PI, HMS)
- 2003–2004 NIMH R25 MH–60485-03: Faculty: "Training in Psychiatric Genetics" (Stephen L. Buka, Sc.D., HSPH, PI).
- 2002-2005 NIMH R21 MH 66192: Investigator: “ADHD: Genetics, Cognition, and Neuroimaging” (Stephen Faraone, Ph.D, PI, HMS).
- 2002-2005 **Principal Investigator**, March of Dimes Foundation: “Brain Function and Structure in Adults with Dyslexia and Attention Deficit/Hyperactivity Disorder: Relationship to Obstetric Factors” (Larry J. Seidman, Ph.D., HMS, Massachusetts Mental Health Institute).
- 2002-2005 **Principal Investigator** of MIND Institute Grant: “Towards the primary prevention of schizophrenia: Neurobiological studies of families with schizophrenia” (Larry J. Seidman, Ph.D., HMS, MGH).

- 2002-2008 **Principal Investigator:** NIMH RO1 MH/HD 62152: The Neuroanatomy of Adult ADHD: An MRI Morphometric Study” (Larry J. Seidman, Ph.D., HMS, MGH).
- 2002-2008 **Principal Investigator:** NIMH RO1 MH 63951: “Family Study of Psychosis: Brain, Genes, & Prenatal Risk” (Larry J. Seidman, Ph.D., HMS).
- 2003-2005 **Principal Investigator (sub-contract):** NIMH MH 22006 (Marder, PI, UCLA), “Measurement and Treatment Development Activities on Cognition in Schizophrenia (MATRICS) Psychometric Study”(Larry J. Seidman, Ph.D., HMS).
- 2003–2007 **Principal Investigator:** NIMH MH–43518: "Schizophrenia: Psychopathology and Heterogeneity" (Larry J. Seidman Ph.D., HMS).
- 2003-2008 **Principal Investigator (sub-contract):** NIA RO1: AG 022381 (Kremen, PI, UCSD), “The VETSA Longitudinal MRI Twin Study of Aging” (Larry J. Seidman, Ph.D., HMS).
- 2003-2008 NIA 1P01 AG 23028: Investigator: “Early Determinants of Adult Health” (Stephen L. Buka, Sc.D., HSPH, PI).
- 2005-2008 **Principal Investigator,** NARSAD Independent Investigator Award: “Specificity of Pre-illness Vulnerability in Bipolar Disorder versus Schizophrenia” (Larry J. Seidman Ph.D., HMS).
- 2003-2009 **Principal Investigator:** NIMH RO1 MH 65562: “The Genetics of Endophenotypes and Schizophrenia” (Larry J. Seidman, Ph.D., HMS).

C. Current Research Funding Information:

- 1994–2009 NIMH RO1 MH–52807: Investigator: "Biological Basis of Schizotypal Personality Disorder" (Robert McCarley, M.D., PI, HMS).
- 2000-2011 NIMH RO1 MH 56956: Investigator: “Sex and Structural Brain Abnormalities in Schizophrenia” (Jill Goldstein, Ph.D., PI, HMS).
- 2002-2011 **Principal Investigator** of Contract: Commonwealth of Massachusetts, Department of Mental Health- Harvard Medical School Department of Psychiatry Research Center: “Center of Excellence for Clinical Neuroscience and Psychopharmacological Research” (Larry J. Seidman, Ph.D., HMS).
- 2004-2009 NIMH-03-DM-0003: **Co-Principal Investigator:** “Treatment Units for Research on Neurocognition and Schizophrenia”(TURNS) (Don Goff, M.D., HMS, MGH, PI)
- 2007-2009 **Co-Principal Investigator/Sponsor/Mentor,** NARSAD Young Investigator: “Stress Reactivity in Individuals at Genetic and Clinical High Risk for Schizophrenia” (Anthony J. Giuliano, Ph.D., PI, HMS).
- 2007-2010 **Principal Investigator,** Sidney R. Baer Foundation: “Prodrome Treatment and Education

Program” (Larry J. Seidman Ph.D., HMS).

- 2007-2012 **Principal Investigator (subcontract)**, NIMH 4RO1 MH0407099 “Neurophysiological Studies of Schizophrenia” (McCarley, PI) (Larry J. Seidman Ph.D., HMS).
- 2007-2012 Investigator, P50 MH080272 (CIDAR); “Vulnerability to Progression Schizophrenia” (Robert McCarley, MD, PI, HMS); **Principal Investigator**, Project #1: “Functional Anatomy of Neurocognitive Deterioration in Schizophrenia”, and **Principal Investigator**, Core #1: “Operations and Clinical Assessment (Larry J. Seidman Ph.D., HMS).
- 2008-2009 **Principal Investigator**, NIMH-03-DM-0003: **Principal Investigator**: “MATRICS-CT: Validation of Intermediate Measures/VIM”, Part of Treatment Units for Research on Neurocognition and Schizophrenia”(TURNS) (Larry J. Seidman Ph.D., HMS).
- 2008-2013 **Principal Investigator**, NIMH 1 U01 MH081928-01A1; “3/8- Predictors and Mechanisms of Conversion to Psychosis” (Larry J. Seidman Ph.D., HMS).

D. Self Report of Teaching

1. Local Contributions

a). Boston University College of Arts and Sciences (1974-1979 Undergraduates):

- 1974-1975 Teaching Assistant in “Group Processes”, 25 undergraduates (3 hours per week+ 3 hours preparation time) 90 hours/semester
- 1974-1975 Teaching Assistant in “Personality Theory”, 20 undergraduates (3 hours per week+ 3 hours preparation time) 90 hours/semester
- 1975 Teaching Assistant in “Experimental Personality”, 15 undergraduates (15 hours per week+ 25 hours preparation time) 120 hours/semester
- 1975 Instructor in “Abnormal Psychology”, 18 undergraduates (3 hours per week+ 3 hours preparation time) 90 hours/semester
- 1978-1979 Instructor in “Abnormal Psychology”, 16 undergraduates (3 hours per week+ 3 hours preparation time) 90 hours/semester

b). Boston University Medical School, Division of Psychiatry (1978-1985):

- 1978-1982 “Psychological Testing”, 3rd year psychiatry clerkship, seminar leader, organizer and presenter, 6 medical students (32 seminar groups taught) 12 hours per clerkship (eight six-week 1 hour seminars+ 1 hour preparation per year for 4 years).
- 1980-1984 “Clinical Neuropsychology in Psychiatry”-Predoctoral Psychology Interns, organizer and presenter, 8 psychology trainees, 96 hours per year (48 weeks, 2 hours/week).
- 1980-1984 “Psychodiagnostic Assessment”-Predoctoral Psychology Interns, Presenter, 8 psychology trainees (1 hour per week, 10 hours per year).
- 1984-1985 “Psychological Testing”-Psychiatry Residents, organizer and presenter, 6 psychiatry residents, 15 hours per semester.

c). Massachusetts School of Professional Psychology: (1984-1989 Graduate students):

- 1984-1989 "Introduction to Neuropsychology": Organizer and Presenter 10-15 doctoral graduate students
2 hours per week + 3 hours preparation-75 hours per semester (1 course per year)
- 1984-1989 "Cognition and Intelligence": Organizer and Presenter 15-20 doctoral graduate students
2 hours per week + 3 hours preparation-75 hours per semester (1 course per year)

d). Local invited teaching presentation, e.g., seminars, grand rounds:

- 2/1978 "Psychological testing in a Case of Schizophrenia with Neuropsychological Deficits",
Psychiatric Grand Rounds – The Cambridge Hospital, Lecturer 1 hour + 2 hours prep.
- 10/1978 "Psychotherapy, Countertransference and Milieu Therapy in a Case of Schizophrenia",
Psychiatric Grand Rounds – Boston University Hospital, Lecturer 1 hour + 2 hours prep.
- 5/1980 "Brain Asymmetry, Affect and Psychopathology: Implications for Psychiatric
Disorders", Massachusetts Psychological Association, Lecturer 1 hour + 3 hours prep.
- 11/1981 "Brain Dysfunction and Schizophrenia: A Case Presentation", Psychiatric Grand Rounds –
Boston University Medical School, Lecturer 1 hour + 3 hours prep.
- 1983-Present "Biology of Schizophrenia", Boston University Ph.D. Program in Behavioral Neuroscience:
Human Neuropsychology: Annual lecturer (for 20 years) for 15-20 graduate and post-doctoral
Ph.D., M.D. and medical students 3 hour lecture + 3 hours preparation per year (6 hours)
- 10/1984 "Neurology and Neuropsychology of Schizophrenia", Psychiatric Grand Rounds – Boston
University Medical School, Lecturer, 1 hour + 2 hours prep.
- 11/1984 "Brain–Behavior Relationships in Schizophrenia", Massachusetts School of Professional
Psychology – Colloquium Series, Lecturer, 3 hours + 3 hours prep.
- 1/1986 "Psychotherapy with the Post-CVA Patient", Human Resource Institute, In-service training,
lecturer 1 hour+ 2 hours prep.
- 4/1987 "Biology of Schizophrenia", Boston University Seminar Series on a Multidisciplinary Approach
to Neurological Genetic Disorders, Lecturer, 1 hour + 2 hours prep.
- 11/1988 "The Role of the Neuropsychologist in Psychiatric Settings", Psychiatric Grand Rounds –
Charles River Hospital, Lecturer, 1 hour + 1 hour prep.
- 1/1989 "Neuropsychology of Schizophrenia," Behavioral Neurology Conference – Beth Israel
Hospital, Lecturer, 1 hour + 2 hours prep.
- 3/1989 "Schizophrenia as a Neurobehavioral Disorder," Psychiatric Grand Rounds – Boston
University Medical School, Lecturer, 1 hour + 2 hours prep.
- 6/1989 "The Role of Neuropsychology in Psychiatry," Psychiatric Grand Rounds – Danvers State

- Hospital, Lecturer, 1 hour + 1 hour prep.
- 1/1990 "Neuropsychology of Schizophrenia," Rounds at the Boston Neurobehavioral Institute," Lecturer, 1 hour + 1 hour prep.
- 4/1990 "Psychosis in the Elderly," Gerontology Conference – Emmanuel College, Lecturer 2 hours + 2 hours prep.
- 5/1990 "The Role of Neuropsychology in a Mental Hospital," Academic Rounds at Metropolitan State Hospital, Lecturer 1 hour + 1 hour prep
- 9/1990 "Biology of Schizophrenia", Schizophrenia didactic series at U Mass Medical Center, Lecturer, 8 PGY II residents, Lecturer 2 hours + 2 hours prep.
- 12/1990 "The Role of Neuropsychology in Psychiatry," Academic Rounds at Bunker Hill Health Center, Lecturer 1 hour + 1 hour prep.
- 3/1991 "Schizophrenia as a Neurobehavioral Disorder," Massachusetts Neuropsychological Society and Massachusetts Psychological Association, Lecturer 1 hour + 1 hour prep.
- 10/1991 "Biology of Schizophrenia", Schizophrenia didactic series at U Mass Medical Center, Lecturer, 7 PGY II residents, Lecturer 2 hours + 2 hours prep.
- 11/1991 "Neuropsychology in a Psychiatric Context: Assessment, Empathy and Treatment," The Mind-Brain Connection in Treatment – Cambridge Hospital Series, Lecturer 1 hour + 2 hours prep.
- 11/1992 "Learning Disabilities-Pathways to School Failure", Groton School, Lecturer, 2 hours + 2 hours prep, 50 faculty
- 5/1993 "Neuropsychological Dysfunction in First Degree Relatives of Schizophrenic Patients," Psychiatric Grand Rounds Massachusetts Mental Health Center, Lecturer 1 hour +2 hours Prep
- 6/1993 "Psychotherapy in the Decade of the Brain," Spring Training Conference, Psychology Training Council, Harvard Medical School, Lecturer 1 hour + 4 hours prep.
- 3/1994 "Assessment and Psychotherapeutic Treatment of Adults with Attentional and Learning Disorders," Psychiatric Grand Rounds, Beth Israel Hospital, Lecturer 1 hour + 2 hours prep.
- 3/1994-Present "Neuropsychology of Schizophrenia and ADHD", MGH Clinical Psychology Training Program, 2 Annual Lectures to 4-6 Psychology interns, 2 hours + 2 hours prep.
- 5/1994 "Assessment and Treatment of Childhood and Adult ADHD," Psychiatric Grand Rounds, Massachusetts Mental Health Center, Lecturer 1 hour + 2 hours prep.
- 12/1994 "Diagnosis and Treatment of ADHD: Clinical and Research Update," Psychiatric Grand Rounds – Boston University Medical Center, Lecturer 1 hour + 2 hours prep.

- 1/1995 "Schizophrenia as a Neurobehavioral Disorder," Behavioral Neuroscience Rounds – Brigham and Women's Hospital, Lecturer 1 hour + 1 hour prep.
- 10/1995 "Neuropsychology of Schizophrenia," Psychiatric Grand Rounds, Brockton VA Medical Center, Lecturer 1 hour + 1 hour prep.
- 4/1996 "Neuropsychological, Structural and Functional MRI Abnormalities in Siblings of Schizophrenic Patients," Behavioral Neuroscience Rounds - Brigham and Women's Hospital. Lecturer 1 hour + 2 hours prep.
- 5/1996 "Neuropsychological, Structural and Functional MRI Abnormalities in Siblings of Schizophrenic Patients," Psychiatric Grand Rounds – Massachusetts Mental Health Center, Lecturer 1 hour + 1 hour prep.
- 12/1996 "Attention Deficit Disorders in Adults: Diagnostic Approaches –What Works and What Doesn't", The Cambridge Hospital – Cambridge Series, Lecturer 1 hour, 3 hours prep.
- 3/1997 "Neurocognitive changes in Schizophrenia," McLean Hospital Series on “Neurobehavioral Aspects of Psychiatry”, Lecturer 1 hour + 1 hour prep.
- 3/1997 "Neuropsychological Views of Intelligence," Harvard Medical School Clinical Research Training Program, Lecturer 1.5 hours, 3 hours prep.
- 11/1997 "Neuropsychology of Schizophrenia," Massachusetts Mental Health Center Psychopharmacology Lecture Series". Lecturer 1 hour + 1 hour prep
- 1/1998 Towards a Genetic Neurobiology of Schizophrenia: Looking Through the Window of Functional and Structural MRI Studies of Biological Relatives," Massachusetts Neuropsychological Society, Lecturer 1.5 hours + 3 hours prep.
- 12/1998 "The Neuropsychology of ADHD": Behavioral Neuroscience Rounds - Brigham and Women's Hospital, Lecturer 1 hour + 1 hour prep.
- 2/99-2/01- "Neuropsychology of ADHD and in other Developmental Disorders in Child Psychiatry": Harvard Dept. of Psychiatry, Child Psychiatry Residency Training Program", Annual lecturer for 10 PGY- 4/5 psychiatry residents, 1.5 hour lecture + 1.5 hours preparation per year (3 hours)
- 3/1999 "Genetic Neurobiology of Schizophrenia: A View From the Study of First-Degree Relatives": MGH Brain Mapping Seminars, Lecturer 1.5 hours, 5 hours prep.
- 3/1999 "Cognition and the New Antipsychotics in Treating Schizophrenia": Psychiatric Grand Rounds at Bay Ridge Hospital, Lecturer 1 hour + 1 hour prep.
- 11/1999 "Neuropsychological Changes in Schizophrenia: Are they Developmental, Degenerative or Both"? McLean Hospital Neurogeriatric Seminar series, Lecturer 1 hour + 1 hour prep.

- 1/2000 “Neuropsychological Assessment of Learning Disorders and ADHD”. New England Council of Child and Adolescent Psychiatry, Lecturer 1 hour + 1 hour prep.
- 3/2000 “Neuropsychological and Neuroanatomical Features of ADHD Throughout the Life Cycle”. Suffolk University Department of Psychology, Lecturer 1 hour + 1 hour prep.
- 9/2000 “Improving Neurocognitive Functioning in Schizophrenia”. Massachusetts Department of Mental Health -Adult Services Conference: “Quality of Life: Improving Outcomes for Persons with serious Mental Illness”, Lecturer 1 hour + 3 hours prep.
- 12/2000 “Schizophrenia as a Neurobehavioral Disorder”. Invited talk at Behavioral Neuroscience Rounds - Brigham and Women's Hospital, Lecturer 1 hour + 1 hour prep.
- 1/2001 “Neuropsychological and Brain Abnormalities in ADHD Across the Lifespan”. Massachusetts Neuropsychological Society, Lecturer 1 hour + 1 hour prep.
- 3/2001 “Neurocognitive Deficits in Schizophrenia across the Life-cycle”. Psychiatric Grand Rounds at Tewksbury State Hospital, Lecturer 1 hour + 1 hour prep.
- 9/2001 “Towards a Neurobiologic Vulnerability to Schizophrenia”. Psychiatric Grands Rounds at The Cambridge Hospital, Lecturer 1 hour + 1 hour prep.
- 11/2001 “Towards a Neurobiologic Vulnerability to Schizophrenia”. Psychiatric Grands Rounds at The Tufts-New England Medical Center, Lecturer 1 hour + 1 hour prep.
- 11/2001 “Towards a Neurobiologic Vulnerability to Schizophrenia”. Psychiatry (PGY-3 & 4 Residents at Saint Elizabeth’s Medical Center, Lecturer 1 hour + 1 hour prep.
- 12/2001 “Assessment of ADHD in Older Adolescents and Young Adults”. Pediatric Psychopharmacology Research Staff at MGH, 2 Lectures 1 hour + 1 hour prep each.
- 12/2001 “Neuropsychological and Brain Abnormalities in ADHD Across the Lifespan”. Behavioral Neuroscience Rounds - Brigham and Women's Hospital Lecturer 1 hour + prep.
- 1/2002 “Left Hippocampal Volume Abnormality as a Vulnerability Indicator to Schizophrenia”, Mass General Hospital Cognitive Neuroscience series, Lecturer 1 hour + 1 hour prep
- 2/2002 “Left Hippocampal Volume Abnormality as a Vulnerability Indicator to Schizophrenia”, McLean Hospital Hippocampus Club, Lecturer 1 hour + 1 hour prep
- 4/2002 “Clinical Implications of Neuropsychological and Neurobiological Abnormalities in ADHD

- Across the Lifespan”, South Shore Mental Health Center Grand Rounds, Lecturer 2 hours + 2 hours prep
- 5/2002 “Frontal Lobe and Behavior”, Psychodynamic Case Conference: Psychiatric Grand Rounds at the Brockton VA Medical Center, Discussant 1.5 hours, 1 hour prep
- 10/2002 “Treatment of Schizophrenia: Do Atypical Neuroleptics Improve Cognition? Massachusetts Mental Health Center Psychopharmacology Lecture Series”, Lecturer 1 hour + 10 hours prep
- 11/2002 “Persistence of ADHD and Dyslexia into Adulthood: Implications for Psychotherapy”, Boston Institute for Psychotherapy, Lecturer 1.5 hours, 2 hours prep
- 1/2003 “Persistence of ADHD and Dyslexia into Adulthood: Implications for Psychotherapy”, Harvard Bureau of Study Council, Lecturer 1.5 hours, 2 hours prep
- 3/2003 “Phenomenology, Epidemiology and Neuroscience of ADHD”, Harvard School of Public Health, Course in Maternal and Child Health Division, Lecturer 1 hour, .5 hour prep
- 4/2003 “Genetic and Perinatal Vulnerability Indicators to Schizophrenia”, Mass General Hospital Cognitive Neuroscience series, Lecturer 1 hour + 1 hour prep
- 4/2003 “Genetic Risk and Brain Vulnerability to Schizophrenia”, Mass General Hospital Psychiatric Neuroscience series, Lecturer 1 hour + 1 hour prep
- 5/2003 “Hippocampus, Memory and Schizophrenia”, Mass General Hospital Center for Morphometric Analysis series, Lecturer 1 hour + 1 hour prep
- 5/2003 “Neuropsychology of ADHD in Adults”, North Shore Children’s Hospital Psychology Lecture Series, Lecturer 1 hour + 1 hour prep
- 9/2003 “Neuropsychology of Schizophrenia”, Massachusetts General Hospital/Lindenman Mental Health Center Lecture Series, Lecturer 2 hours +1 hour prep
- 12/2003 “Neuroanatomical and Neuroimaging Studies of Schizophrenia”. Boston University Medical School, Department of Anatomy and Neurobiology, Lecturer 1.5 hours +1 hour prep
- 1/2004 “Research Findings and Methods in Schizophrenia”, Harvard Medical School Psychiatry Department, Longwood Area Residency Training Program, Seminar leader 3 hours (3 one hour seminars) + 1 hour prep
- 3/2004 “Phenomenology, Epidemiology and Neuroscience of ADHD”, Harvard School of Public Health, Course (ID278):Mental Health of Children and Adolescents, Lecturer 1 hour, 2 hour prep
- 4/2004 “Functional MRI of Working Memory as a Vulnerability Indicator for Schizophrenia: Studies in Non-Psychotic Relatives”, McLean Hospital Conference on Psychoses, Lecturer 1/2 hour, 1 hour

Prep

- 4/2004 “Functional MRI of Working Memory as a Vulnerability Indicator for Schizophrenia: Studies in Non-Psychotic Relatives”, Massachusetts Mental Health Center Scientific Lunch series, Lecturer 1 hour, 1 hour Prep
- 8/2004 “Neuropsychological Improvement and Housing Intervention in Homeless Mentally Ill Persons”, Massachusetts Mental Health Center Scientific Lunch Series, Lecturer 1.5 hours, 1 hour Prep
- 9/2004 “Neurobiology of ADHD”, Massachusetts Mental Health Center Scientific Lunch Series, Lecturer 1.5 hours, 1 hour Prep
- 10/2004 “Cognition in Mental Illness”, National Alliance for the Mentally Ill, Cape Cod Chapter, Lecturer, 2 hours, 1 hour Prep
- 11/2004 “Cognition in Mental Illness”, American Residential Treatment Association annual meeting, Stockbridge, Mass., Lecturer, 2 hours, 2 hours Prep
- 11/2004 “Vulnerability to Mental Illness-What do we know?”, Behavioral Neuroscience Rounds - Brigham and Women's Hospital, Lecturer, 1 hour, 1 hour Prep
- 11/2004 “What do we Know about Predicting Schizophrenia?”, Harvard Psychology Department Colloquim on Development and Psychopathology, Lecturer, 1.5 hours, 1 hour Prep
- 8/2005 “Neuropsychology and Neurobiology of ADHD”, Seminar for PGY-3’s at the Beth Israel Deaconess Medical Center, Department of Psychiatry, Lecturer, 1 hour, 1 hour Prep
- 9/2005 “Vulnerability of the Brain in the Risk for Schizophrenia”. Boston University Psychology Department Colloquim, Lecturer, 1.5 hours, 1 hour Prep
- 9/2005 “Vulnerability of the Brain in the Risk for Schizophrenia”. Beth Israel Deaconess Medical Center, Department of Psychiatry Research Colloquim, Lecturer, 1 hour, 1 hour Prep
- 11/2005 "Vulnerability of the Brain in the Risk for Schizophrenia", Psychiatric Grand Rounds, Cambridge Hospital
- 11/2005 Discussant, “Neurocognition in Schizophrenia”, to presentation by Dr. William Carpenter on “Advancing Pharmacotherapy of Schizophrenia: Barriers and Opportunities”, Harvard Global Mental Health Seminar
- 1/2006 "Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE): A review of the study and its importance”, Psychiatric Grand Rounds, Beth Israel Deaconess Medical Center, Lecturer, 1/4 hour, 1 hour Prep
- 1/2006 “Social Consequences of Sex Differences in the Brain”. Boston Society for Neurology and Psychiatry, Discussant, 2 hours, 1 hour Prep

- 1/2006 “Vulnerability of the Brain in the Risk for Schizophrenia”. Massachusetts General Hospital, Psychiatric Neuroscience Research Colloquim, Lecturer, 1 hour, 1 hour Prep
- 3/2006 “Vulnerability of the Brain in the Risk for Schizophrenia”. Beth Israel Deaconess Medical Center PGY-2 Research Colloquim, Lecturer, 1 hour, 1 hour Prep – 2 talks
- 3/2006 “Prodrome in the Risk for Schizophrenia”. Boston University Center for Anxiety and Related Disorders Research Colloquim, Lecturer, 1 hour, 1 hour Prep
- 3/2006 “Prodrome in the Risk for Schizophrenia”. Massachusetts Dept of Mental Health Child Psychiatry Research Colloquim, Lecturer, 1 hour, 1 hour Prep
- 3/2006 “Vulnerability of the Brain in the Risk for Schizophrenia”. Massachusetts General Hospital, Child Psychiatry Fellows Research Colloquim, Lecturer, 1 hour, 1 hour Prep
- 4/2006 “Neuropsychology and Neurobiology of ADHD Across the Lifespan: Focus on Executive Functions”, at the HMS Clinical Research Training Program, Boston, Mass.
- 4/26/06 “Importance of Prevention and Early Intervention for Psychotic Disorders” – 4 attendees at the Legislature of the Commonwealth of Massachusetts.
- 7/6/06 Discussion with Bournewood Hospital staff about Commonwealth Research Center studies approximately 15 psychiatrists.
- 8/17/06 “ADHD and the Brain”, Longwood Area Residency Training- PGY-3 Residents seminars, 10 trainees.
- 9/14/06 “History and Overview of Human Neuropsychology”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees.
- 9/28/06 “The Role of Neuropsychology in Psychiatry”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees
- 11/14/06 PI Career Development lunch with research assistants, Clinical and Research Program in Pediatric Psychopharmacology, MGH, 15 attendees.
- 12/13/06 “Frontal Lobes and Behavior”, Longwood Area Residency Training- PGY-2 Residents seminars, 12 trainees.
- 12/14/06 “Neuroimaging Methods”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees
- 12/21/06 “Attention and Working Memory”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees
- 1/18/07 “Individual Patient Characteristics and Neuropsychology”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees

- 1/18/07 "Cognitive Enhancement of neuropsychological Deficits in Schizophrenia", Psychiatric Grand Rounds, Massachusetts Mental Health Center, Lecturer, 1/4 hour, 1 hour Prep, 40 attendees.
- 3/8/07 "New conceptions of clinical risk and treatment for prodromal schizophrenia". Longwood Area Residency Training- PGY-3 Residents seminars, 6 trainees.
- 3/15/07 "The Neuropsychology of ADHD", Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 trainees
- 4/4/07 "Neural substrates of genetic risk for psychosis". Psychiatric Neuroimaging Laboratory, Brigham and Women's Hospital, seminar, 15 lab staff.
- 9/17/07 "Neural substrates of genetic risk for psychosis". Mass Mental Health Center Psychology Interns Seminar, 10 trainees.
- 9/18/07 "Early Intervention and prevention of psychosis: A long-term goal of service reform". Mass Mental Health Center Grand Rounds 40 staff and trainees.
- 9/20/07 "Neural substrates of genetic risk for psychosis". Mass Mental Health Center PGY-3 Psychiatry residents Seminar 10 trainees.
- 1/3/08 "Attention and Working Memory", Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 10 trainees
- 1/10/08 "Neural and Cognitive Substrates of Vulnerability to Schizophrenia". Longwood Area Psychiatry Grand Rounds, 50 staff and trainees.
- 1/23/08 "Research studies and treatment approaches to prodrome and first episode psychosis", MIT Mental Health Services, 15 staff.
- 1/24/08 "Factors influencing individual neuropsychological test performance", Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 10 trainees
- 2/28/08 "Neural and Cognitive Substrates of Vulnerability to Schizophrenia". University of Massachusetts Psychiatry Grand Rounds, 50 staff and trainees.
- 3/21/08 "Identification and Early Intervention with People at High Risk of Developing Psychosis", DMH Statewide Mental Health Advisory Council in the Office of the Commissioner of Mental Health in Massachusetts, 10 people.
- 4/17/08 "Identification and Early Intervention with People at High Risk of Developing Psychosis" MIT Health Services, 50 staff- physicians, psychologists and social workers.
- 8/13/08 "How the Brain Works- Fundamentals of Cognitive Neuroscience – Phineas Gage and the

- Origins of Neuropsychology”, PG II Neuroscience Course Fall semester 2008; “Essentials of Clinical Neuroscience in Psychiatry”, Harvard Longwood Residency Training Program, 12 trainees.
- 8/14/08 “Neuropsychological Functioning in Schizophrenia”, PG III Community Psychiatry Course Fall semester 2008; Harvard Longwood Residency Training Program, 8 trainees
- 8/20/08 “Biology of Memory”, PG II Neuroscience Course Fall semester 2008; “Essentials of Clinical Neuroscience in Psychiatry”, Harvard Longwood Residency Training Program, 12 trainees.
- 9/4/08 “History and Overview of Human Neuropsychology”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees.
- 9/18/08 “Neuropsychologically Informed Treatment”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees
- 9/25/08 “CIDAR Annual Retreat”, Beth Israel Deaconess Medical Center, 40 faculty, staff and trainees
- 10/23/08 “Advances in Early Detection and Intervention in Psychosis” Harvard University Health Services, 30 staff- physicians, psychologists and social workers.
- 11/18/08 ”Biology of Schizophrenia”, Boston U Behavioral Neuroscience PhD Program Seminar in Human Neuropsychology, 10 graduate students.
- 12/4/08 “Neuroimaging Methods”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees.
- 1/8/09 “Attention and Working Memory”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees.
- 1/21/09 “Housing Homeless Persons with Mental Illness: Research Findings and Policy Implications after 20 Years”. Presentation to METRO Boston DMH staff. 60 attendees.
- 2/5/09 “Person Variables in Neuropsychological Assessment”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees.
- 3/25/09 “The Mind at Rest During Functional MRI: A Study of the Default Network in Schizophrenia”, MMHC Psychiatry Grand Rounds, 15 staff and trainees.
- 4/16/09 “The Neuropsychology of Schizophrenia”, Seminar in Human Neuropsychology, Beth Israel Deaconess Medical Center, 15 post-doc trainees.

e). Continuing Medical Education:

- 7/1994 "The Role of Neuropsychology in Everyday Practice: Assessment and Treatment," Massachusetts Mental Health Center Summer Series – Continuing Education Courses, Director of 5 day course, 15 hours teaching + 10 hours prep, 22 PhD, MD students
- 7/1995 "Neuropsychological Assessment and Treatment in Everyday Practice," Massachusetts Mental Health Center Summer Series – Continuing Education Courses, Director of 5 day course, 15 hours teaching + 10 hours prep, 16 PhD, MD, students
- 12/1995 "Neuropsychology of ADHD: Effects of Age, Familiarity and Comorbid Learning Disorders," Attention Deficit Disorders Course – MGH Continuing Education, Harvard Medical School, Lecturer 1 hour + 3 hours prep., 600 MD, PhD, MSW attendees.
- 7/1996 "Neuropsychological Assessment and Treatment: A Clinical Focus on Adolescents and Adults," Massachusetts Mental Health Center Summer Series – Continuing Education Course,
- 3/1997 "Neuropsychology of ADHD", MGH Continuing Education Program, "Attention Deficit Hyperactivity Disorder Across the Life Span", Lecturer 1 hour + 3 hours prep, 700 MD, PhD, MSW attendees.
- 6/1997 "Contemporary Applications of Psychological Testing," Massachusetts Mental Health Center, Department of Psychology - Continuing Education Course, Director of 2 day course, 12 hours
- 3/1998 "Second Annual Conference on The Contemporary Applications of Psychological Testing," and Pre-Conference Institute on "Diagnosis, Assessment, and Psychological Intervention of ADHD and Learning Disabilities", Massachusetts Mental Health Center, Department of Psychology - Continuing Education Course,. Co-Director of 3-day course, 18 hours teaching + 18 hours prep, 200 MD, PhD, MSW trainees.
- 8/1998 "Neuropsychological Assessment": Massachusetts Mental Health Center Summer Series – Continuing Education Course, Director of 5 day course, 15 hours teaching + 10 hours prep, 30 PhD, MD, MSW students.
- 3/1999 "The Neuropsychology of ADHD"; "Neuroimaging in ADHD": MGH Department of Continuing Education Course on "Attention Deficit Hyperactivity Disorder", Lecturer 2 hours + 5 hours prep., 750 MD, PhD, MSW attendees.
- 6/1999 "Third Annual Conference on The Contemporary Applications of Psychological Testing", and Pre-Conference Institute on "Diagnosis and Assessment of Neurodevelopmental Disorders", Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, Co-Director of 3 day course, 18 hours teaching + 18 hours prep, 200 MD, PhD, MSW trainees.
- 8/1999 "Neuropsychological Assessment and Treatment": Massachusetts Mental Health Center

Summer Series– Continuing Education Course, Director of 5 day course, 15 hours teaching + 10 hours prep, 22 PhD, MD, MSW students..

- 6/2000 “Fourth Annual Conference on The Contemporary Applications of Psychological Testing,” and Pre-Conference Institute on “Controversies in the Assessment of Attention Disorders and Temperament”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, Co-Director of 3 day course, 18 hours teaching + 18 hours prep, 200 trainees.
- 3/2001 “Assessment Dilemmas in the Young Adult with ADHD”. MGH Department of Continuing Education Course on “Attention Deficit Hyperactivity Disorder Across the Life Span”, Lecturer 1 hour + 3 hours prep, 680 MD, PhD, MSW attendees.
- 4/2001 “Fifth Annual Conference on The Contemporary Applications of Psychological Testing,” and Pre-Conference Institute on “Recent Developments in Understanding and Assessing Children and Adolescents with Learning Disabilities”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, Co-Director of 3 day course, 18 hours teaching + 18 hours prep, 175 PhD, MD, MSW trainees.
- 8/2001 “Assessment and Treatment of ADHD in Adolescents and Young Adults”, Massachusetts Mental Health Center Summer Series– Continuing Education Course, Director of 5 day course, 15 hours teaching + 10 hours prep, 18 PhD, MD, students
- 10/2001 “Neuropsychological Assessment in Child and Adolescent Psychiatry”, Annual Meeting of the American Academy of Child and Adolescent Psychiatry, Honolulu, Hawaii, Course Director of a 1 day Institute Workshop, 8 hours teaching + 10 hours prep, 140 MD, PhD students.
- 4/2002 “Sixth Annual Conference on The Contemporary Applications of Psychological Testing,” and Pre-Conference Institute on “Assessment and Treatment of Adolescent and Adults with Neurodevelopmental Disorders”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, Co-Director of 3 day course, 18 hours teaching + 20 hours prep, 225 PhD, MD, MSW trainees. My talk was “Long-term follow-up of ADHD at age 35”.
- 5/2002 “Neuropsychology of Adult ADHD”, Annual Meeting of the American Psychiatric Association- Industry (Shire) sponsored symposium on ADHD. Lecturer, 10 hours prep.
- 3/2003 “Assessment Dilemmas in the Young Adult with ADHD”. MGH Department of Continuing Education Course on “Attention Deficit Hyperactivity Disorder Across the Life Span”, Lecturer 1 hour + 3 hours prep, 400 MD, PhD, MSW attendees.
- 4/2003 “Seventh Annual Conference on The Contemporary Applications of Psychological Testing,” and Pre-Conference Institute on “Assessment and Treatment of Adolescent and Adults

- with Neurodevelopmental Disorders”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, Co-Director of 3 day course, 18 hours teaching + 20 hours prep, 225 PhD, MD, MSW trainees.
- 4/2004 Eighth Annual Conference on The Contemporary Applications of Psychological Testing,” and Pre-Conference Institute on “Dilemmas in the Assessment of Older Teenagers and Young Adults with ADHD”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, 200 PhD, MD, MSW trainees, 1 hour prep.
- 3/2005 “Assessment Dilemmas in the Young Adult with ADHD”. MGH Department of Continuing Education Course on “Attention Deficit Hyperactivity Disorder Across the Life Span”, Lecturer 1 hour + 3 hours prep, 500 MD, PhD, MSW attendees.
- 2/1/06 “Neuropsychology and Neurobiology of ADHD Across the Lifespan”, at the 34th Annual Meeting of the International Neuropsychological Society, Boston, Mass., 200 PhD attendees
- 4/2006 “Individualized Clinical Neuropsychological Assessment for Patients with Schizophrenia”, Harvard Medical School Continuing Education course on “Neurocognitive Function, Treatment and Outcome in Schizophrenia: From Science to Practice” (Course Director) 13 hours + 100 hours prep, 150 MD, PhD, trainees, attendees.
- 3/2007 “Assessment Dilemmas in the Young Adult with ADHD”. MGH Department of Continuing Education Course on “Attention Deficit Hyperactivity Disorder Across the Life Span”, Lecturer 1 hour + 3 hours prep, 400 MD, PhD, MSW attendees.
- 6/16/07 “Neuropsychology and Neurobiology across the Lifespan”. Massachusetts School of Professional Psychology Continuing Ed., Lecturer 6 hours + 6 hours prep, 40 attendees.
- 7/4/07 “Schizophrenia as a Neurocognitive Disorder: Cognitive and Neural Substrates of Vulnerability”, at the Annual Summer Meeting of the International Neuropsychological Society, Bilbao, Spain, 3 hours + 6 hours prep, 20 attendees.
- 10/17/07 “Basics of Neuropsychiatric Evaluation Across Psychiatric Disorders: Focus on Cognition”, Massachusetts General Hospital Psychiatry Academy, Boston, Mass. 6 hours + 6 hours prep, Focus Group.
- 11/17/07 “Neuropsychology and Neurobiology of ADHD Across the Lifespan”, at the Annual Meeting of the National Academy of Neuropsychology, Scottsdale, Arizona, 3 hours + 6 hours prep, 100 PhD Attendees.
- 3/27/08 Twelfth Annual Conference on The Contemporary Applications of Psychological Testing, and Pre-Conference Institute on “Academic Accommodations and ADHD: A Neuropsychological Perspective”, Massachusetts Mental Health Center, Department of Psychology-Continuing Education Course, 1 hour + 4 hours prep, 200 PhD, MD, MSW

trainees.

- 5/14/08 “Insights into Brain and Behavior in Psychosis Spanning the Premorbid, Prodromal, and First Episode Periods”, Beth Israel Deaconess and Massachusetts Mental Health Center, Department of Continuing Education course on “Intervention in Early Psychosis”, Funded by the Sidney Baer foundation, (Course Co-Director) 6 hours + 50 hours prep, 150 MD, PhD, trainees, attendees.
- 2/24/09 “Understanding Psychotic Disorders and their Precursors in Youth”: Workshop on “Advances in Adolescent Psychosis: Early Identification and Intervention (WS03)” at the National Academy of School Psychologists, Boston, Mass. 47 PhD School Psychologists, 3 hours + 8 hours prep.
- 4/3/09 “The Path of ADHD from Teenage years to Young Adulthood” in “Treating Young Adults: Challenges and Strategies”: Cambridge Health Alliance-Harvard Medical School Department of Psychiatry, Boston, Mass. 2 hours + 3 hours Prep, 250-300 MD, PHD, MSW trainees.

f). Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting

- 1981-1984 **Boston University Medical School, Division of Psychiatry:**
Clinical Supervisor (1981-1984), 2 psychology interns and 2 psychiatry residents per year, for 200 hours per year
Training Director (1982-1984) 3 psychology interns per year-intern group meeting for 45 hours per year
- 1984-1989 **Massachusetts School of Professional Psychology:**
5 Doctoral students (chair of 2 doctoral committees, member of 3 others), 10 hours/year
- 1990- **Boston University Ph.D. Program in Clinical Psychology:**
Chair or 2nd reader for 5 doctoral dissertation committees, 10 hours/year (William Kremen, Dan Koren, Erin Curtiss, Jude Leung)
- 1993- **Boston University Ph.D. Program in Behavioral Neuroscience:**
Advisor and 4 doctoral dissertation committees for Ph.D. students, 10 hours/year (Julie Goodman, Nikos Makris, Ariel Brown, Samantha Huang)
- 2000 **Duke University PhD program in Clinical Psychology:**
Advisor and doctoral dissertation committee for 1 Ph.D. student, 25 hours/year (Heidi Wencel Thermenos)
- 2005- **Harvard University PhD program in Clinical Psychology:**
Advisor and doctoral dissertation committee for 2 Ph.D. students, 50 hours/year (Laura Phillips, Kristen Woodberry)

- 1985-Present **Massachusetts Mental Health Center, Harvard Medical School Faculty (Supervisor and Preceptor)**
- 1985-1992 Clinical Psychology Internship Preceptor/Clinical Supervisor at MMHC
3 predoctoral interns/year, 1 hour/week, 135 hours/year
- 1993-2002 Clinical Psychology Internship Preceptor/Clinical Supervisor at MMHC
1 predoctoral intern/year, 1 hour/week, 45 hours/year
- 1989-1994 Psychiatry Residency Clinical Supervisor at MMHC
1 psychiatry resident/year, 1 hour/week, 45 hours/year
- 1986-2002 Neuropsychological Postdoctoral Fellowship at MMHC-Director/Clinical Supervision
average of 3 postdoctoral fellows/year, 1 hour/week, 135 hours/year
- 1986-Present Clinical Research Training Program in Biological and Social Psychiatry (CRTP)
9 post-doctoral fellows (5 primary research supervisor, 4 co-supervisor), 1 hour/week, 315 hours of research supervision.
- 1999-Present Faculty, Post-doctoral training program in Psychiatric Epidemiology and Genetics
1 post-doctoral fellow, 1 hour per week beginning 2002 (50 hours).
- 1989-Present **Other (n=22) Research Fellows received independent funding under my mentorship**
3 MMHC Research and Education fellows, 1 hour/week, 100 hours
10 National Alliance for Research in Schizophrenia and Affective Disorders Young Investigator Awardees (7 primary mentor, 3 co-mentor), 1 hour/week, 810 hours
1 Eli Lilly Pilot Research fellow in Child Psychiatry (co-mentor), 10 hours
8 Harvard Department of Psychiatry Peter Livingston Award fellows (7 primary mentor, 1 co-mentor), 1 hour/week, 200 hours
9 Harvard Department of Psychiatry Clinical Research Training Program fellows (5 primary mentor, 4 co-mentored), 1 hour/week, 200 hours
1 Scottish Rite Dissertation Research fellow, 1 hour/week, 75 hours
1 NIMH National Research Service Award Pre-doctoral Fellowship, 1 hour/week, 50 hrs
1 NIMH National Research Service Award Post-doctoral Fellowship, 1 hour/week, 50 hrs
1 NIMH National Research Service Award “K” awardee, 1 hour/week, 50 hrs
1 NIMH Loan Replacement Post-doctoral Fellow, 1 hour/week, 50 hrs for 2 years
2 Sackler Foundation Pre-doctoral Fellowships (Harvard University), 1 hour/week, 50 hours
1 Scholars in Medicine Fellowship (Harvard Medical School), 1 hour/week, 50 hours
1 DuPont Warren Fellowship (Harvard Medical School), 1 hour/week, 50 hours

g). Massachusetts Mental Health Center, Harvard Medical School (1985-Present)

Leadership Roles

- 1986-2002 Director, Neuropsychology post-doctoral education and training program at MMHC
- 1994-2000 MMHC coordinator for weekly Brigham & Women’s Weekly Neuroscience Rounds
- 1997-2002 Director, Pre-Conference Institute, MMHC Continuing Education Course: “Assessment and Treatment of Neurodevelopmental Disorders”; Co-Director, MMHC Continuing Education Course on “Advances in Psychological Testing”, Annual Courses (200-250 participants)

Teaching: Specific Courses I Developed

- 1985-Present “Psychological Assessment-Neuropsychology Section” Organizer and Presenter 5-9
Clinical Psychology interns 1 1/2 hours per week + 1/2 hour preparation for 25 weeks (50 hrs)

- 1988-1993 “Neuropsychological Assessment” Organizer and Presenter 4-6 MMHC neuropsychology fellows 48 weeks-1 1/2 hours + 1/2 hour preparation per week (96 hours).
- 1993-Present “Neuropsychological Assessment” Organizer and Presenter 13-15 postdoctoral Ph.D. and MD neuropsychology fellows from the HMS Psychiatry Dept. (from up to 8 hospitals) 48 week course with 20 HMS faculty. I teach 20 sections - 1 1/2 hours +1/2 hour preparation per week (82 hours)
- 1988-1994 “Neuropsychiatry Rounds” Co-organizer and teacher with Brigham and Women’s Neurologist consultant to MMHC 8-15 trainees-neuropsychology fellows and psychiatry residents (PGY-3) 25 week seminar - 1 hour per week (25 hours)
- 1996-1996 HMS Neurobiology 300 Series: “Mind, Brain and Schizophrenia” Organizer and Presenter (with 3 other HMS faculty), 5 M.D. and Ph.D. graduate students 7 weeks, 1 hour + 1 hour preparation per week (14 hours)
- 1996-2002 Monthly Neuropsychology Laboratory Research Seminar, Organizer and Presenter, 5-8 post-doctoral fellows per year (+ 1 other faculty member) present and discuss ongoing or planned research, 10 weeks, 1 hour +1/2 hour prep per month (15 hours)
- 2004-Present Weekly Neuropsychology Laboratory Research Seminar, Organizer and Presenter, 5-8 post-doctoral fellows per year (+ 1 other faculty member)

Special accomplishments:

I have a strong commitment to multi-disciplinary teaching in general, and to teaching neuropsychology in particular, as it is an integrative field of mind-brain understanding. To this end,

I have put much effort into integrating neuropsychology into the Psychiatry department at Harvard. This is reflected in the many courses I have developed or lead. Perhaps the most significant achievement is the course entitled “Neuropsychological Assessment” (listed above “1993-Present”). This course, now in its 15th year, is to my knowledge, the only neuropsychology course at Harvard that admits trainees from all the Harvard Medical School teaching hospitals, has faculty from Neuropsychology (Psychology), Neurology and Psychiatry, and trainees from these 3 disciplines. This course involves over 20 HMS faculty, who volunteer to teach, and provide a superb interdisciplinary example for the students. In part, the success of this course is reflected in my being nominated twice for “Mentor of the Year”.

h). Trainees under my supervision (who currently have academic appointments)

- 1983-1984 Margaret O’Connor, PhD, Associate Professor of Neurology, Harvard Medical School
- 1986-1989 John Miner, PsyD, Instructor of Psychiatry, Harvard Medical School
- 1986-1990 William S. Kremen, PhD, Professor of Psychiatry, UC San Diego Medical School
- 1987-1988 Paul Nestor, PhD, Professor of Psychology, U Massachusetts
- 1987-1989 Cheryl Weinstein, PhD, Assistant Professor of Psychiatry, Harvard Medical School
- 1987-1989 John Pepple, PhD, Instructor of Psychology (Dept of Psychiatry), Harvard Medical School

1987-1989 Keith Hawkins, PhD, Associate Professor of Psychiatry, Yale Medical School

1988-1990 Nancy Talbot, PhD, Associate Professor of Psychology, U Rochester Medical School

1989-1990 Dorothy Holinger, PhD, Assistant Professor of Psychiatry, Harvard Medical School

1989-1991 Anthony Kalinowski, PhD, Instructor of Psychiatry, Harvard Medical School

1989-1994 Jill Goldstein, PhD, Professor of Psychiatry, Harvard Medical School

1990-1992 George Tolomiczenko, MPH, PhD, Assistant Professor of Psychiatry, University of Toronto

1991-1993 Rosalind Jones, PhD, Instructor in Psychiatry, Dartmouth Medical School

1991-1994 Rosemary Toomey, PhD, Assistant Professor of Psychiatry, Harvard Medical School

1991-1994 Martina Voglmaier, PhD, Assistant Professor of Psychiatry, Harvard Medical School

1991-1994 Brina Caplan, EdD, Instructor of Psychiatry, Harvard Medical School

1992-1994 Barbara Shagrin, PhD, Clinical Assistant Professor of Psychiatry, BU Medical School

1992-1995 Hans Breiter, MD, Assistant Professor of Psychiatry, Harvard Medical School

1994-1995 Genichi Matsuda, MD, PhD, Research Associate, National Institute of Mental Health, Japan

1994-1995 Peter W.R. Woodruff, MB, MRCPsych, Professor and Chair, Psychiatry Department, Sheffield, England

1994-1996 Dan Koren, PhD, Associate Professor of Psychology, Haifa University, Israel

1994-1999 Julie Goodman, PhD, Instructor in Radiology, Harvard Medical School

1995-1999 William Stone, PhD, Assistant Professor of Psychiatry, Harvard Medical School

1996-1997 Jean Frazier, MD, Professor of Psychiatry, U Massachusetts Medical School

1996-1998 Winifred Sachs, EdD, Instructor of Psychiatry, Harvard Medical School

1996-2000 Nikos Makris, MD, PhD, Associate Professor of Neurology, Harvard Medical School

- 1997-1999 Robert Fucetola, PhD, Assistant Professor of Neurology, Washington U Medical School
- 1997-1999 Alysa Doyle, PhD, Assistant Professor of Psychiatry, Harvard Medical School
- 1998-1999 Stewart Quirk, PhD, Assistant Professor of Psychology, Central Michigan University
- 1998-2000 Nancy Madigan, PhD, Instructor of Psychiatry, Harvard Medical School
- 1999-2001 Margaret Lanca, PhD, Instructor of Psychiatry, Harvard Medical School
- 1999-2004 Heidi Wencel Thermenos, PhD, Instructor of Psychology, Harvard Medical School
- 2000-2003 Eve Valera, PhD, Assistant Professor of Psychiatry, Harvard Medical School
- 2000-2002 Sara Hoffschmidt, Instructor of Psychiatry, Harvard Medical School
- 2001-2001 Colm McDonald, MB, MRCPsych, Wellcome Trust Fellow, Institute of Psychiatry, London
- 2002-2003 Wilson Woo, M.D. Ph.D., Assistant Professor of Psychiatry, Harvard Medical School
- 2002-2005 Deborah Walder, Ph.D., Assistant Professor of Psychology, Brooklyn College
- 2005-2007 Michelle Friedman-Yakoobian, PhD., Instructor of Psychiatry, Harvard Medical School
- 2006-2007 Timothea Touloupoulou, PhD NARSAD Young Investigator, Institute of Psychiatry, London
- 2005-2009 Kristen Woodberry, PhD, Instructor of Psychiatry, Harvard Medical School

2.Regional, national or international contributions

a). Invited presentation

- 3/1981 "Neuropsychological Deficit and Psychopathology in Temporal Lobe Epilepsy," Colloquim, Laboratory of Psychology and Psychopathology, NIMH, Lecturer, 2 hours + prep.
- 10/1988 "Neuropsychology of Schizophrenia: A Neurodevelopmental and Case Study Approach," Conference on Neuropsychology of Neurobehavioral Disorders – Institute of Living, Hartford, CT, Lecturer, 1 hours, 5 hours prep.
- 4/1989 "The Biology of Schizophrenia," University of Connecticut – Psychology Department Colloquium, Lecturer, 2 hours, 4 hours prep.

- 10/1995 "Neuropsychological Assessment of ADHD," Symposium at the American Academy of Child and Adolescent Psychiatry on "Assessment Methods for ADHD in Children and Adults" (NY), Lecturer 1 hour + 3 hours prep.
- 6/1996 "Neuropsychology of ADHD into Adulthood: The Role of Gender and Comorbidity," Northern California Neuropsychology Forum Symposium on ADHD, San Francisco
- 3/98-4/98 Visiting Professor, Haifa University Psychology, and Technion Psychiatry and Cognitive Neurology Departments, at Rambam Medical Center, Israel, 10 hours of lectures on the neuropsychology of schizophrenia, ADHD and dyslexia to faculty and students
- 10/1998 "An Overview of Neuropsychology, Brain Organization and ADHD"; "ADHD, Dyslexia and Language Disorders": Invited Talks at the CH.A.D.D 10th Annual International Conference on Attention Deficit Disorders New York.
- 2/1999 "Adult ADHD": Invited Discussant of Symposium on "Adult ADHD: Diagnosis DuJour": International Neuropsychology Society Annual Meeting, Boston
- 8/1999 "A Functional MRI Study of Auditory Verbal Working Memory in First Degree Relatives of Patients with Schizophrenia", Invited Symposia, American Psychological Association Annual Meeting, Boston
- 10/2000 "Neuropsychological and Brain Abnormalities in ADHD Across the Lifespan" at the Annual UCLA-Help Conference on Learning Disabilities, Los Angeles
- 4/2002 "Neuroimaging and Neurocognition as Tools for Assessing Neurobiological Risk for Schizophrenia"; "Brain Developmental Issues in Risk for Psychosis" at the First Annual Workshop on the Schizophrenia Prodrome: Research Methodology, New York (Member of International network designed to develop preventive interventions in schizophrenia).
- 10/2002 Consultant to University of Brescia (Italy) Medical School and Hospital, on the development of a research project for assessing vulnerability to schizophrenia (3 days of consultation).
- 3/2003 "The Hippocampus as a Vulnerability Indicator of Schizophrenia," University of Connecticut – Psychology Department Colloquium, Lecturer, 1.5 hours, 3 hours prep.
- 3/2003 "Evidence Regarding Intellectual Decline in Schizophrenia from Prospective Follow-up Studies", The 6th Biennial Mt. Sinai Conference on Cognition in Schizophrenia-Update, A conference associated with The International Congress on Schizophrenia Research
- 4/2003 "MATRICS"- "Measurement and Treatment Research to Improve Cognition in Schizophrenia" NIMH sponsored 2-day workshop attended by approximately 45 national leaders in Research on Cognition in Schizophrenia (Washington, DC).

- 5/2003 “The Hippocampus and Risk for Psychosis” at the Second Annual International Prodromal Research Network, Los Angeles (Member of network designed to develop preventive interventions in schizophrenia and affective psychosis).
- 2/2004 “Structural Brain Imaging in ADHD” at Advancing the Neuroscience of ADHD: An Educational and Scientific Conference, Boston, Mass., Sponsored by the Society of Biological Psychiatry.
- 2/2004 “Genetics and Brain Dysfunction in ADHD”, invited chair of ADHD Neurogenetics Translational Research Network, NIMH sponsored- (S. Faraone, PI).
- 5/2004 “Adult ADHD: What Does Neuropsychology Tell Us?”, invited speaker at Conceptualizing and Treating ADHD Adults, Industry sponsored (Shire) - (Timothy Wilens, Chair), at the American Psychiatric Association, New York.
- 9/2004 “Neuropsychological Profile Analysis in Relatives of Persons with Schizophrenia” at the Third Annual International Prodromal Research Network, Vancouver, Canada (Member of network designed to develop preventive interventions in schizophrenia and affective psychosis).
- 10/2004 “Clinical, Neuropsychological and Brain Abnormalities in ADHD Across the Lifespan” at the Annual UCLA-Help Summit on Learning Disabilities, Los Angeles
- 4/2005 “Episodic memory functions during the premorbid period prior to schizophrenia” at the 7th Biennial Mt. Sinai Conference on Cognition in Schizophrenia. Savannah, Georgia
- 9/2005 “Vulnerability of the Brain in the Risk for Schizophrenia” at the Fourth Annual International Prodromal Research Network, Napa, California.
- 9/2005 “Neuropsychology and Neuroimaging in ADHD” at the Quebec Psychiatric Association. Montreal, Canada.
- 1/2006 “Vulnerability of the Brain in the Risk for Schizophrenia” at the Nathan Kline Institute for Brain Research, Psychiatric Grand Rounds, Orangeburg, New York.
- 2/2006 Discussant for the Symposium on “Endophenotypes for ADHD”, at the 34th Annual Meeting of the International Neuropsychological Society, Boston, Mass.
- 5/2006 “Brain functional and anatomical vulnerabilities for schizophrenia” – Discussant and Invited talk on a workshop: “Understanding the Vulnerability to Psychosis (Barbara Cornblatt, chair). Society of Biological Psychiatry, Toronto, Canada.
- 5/2006 “Specificity of Pre-Illness Neurocognitive Deficits in Schizophrenia vs. Bipolar Disorder?” Invited talk on a symposium: “Forms of Vulnerability: Intermediate Phenotypes of Schizophrenia (Michael Wagner, chair). Society of Biological Psychiatry, Toronto,

Canada.

- 5/2006 “Dorsolateral Prefrontal and Anterior Cingulate abnormalities in adults with ADHD assessed with structural MRI” Invited talk on a symposium: “Cognitive and Affective Neuroscience in Pediatric Psychiatry” (John Sweeney, Chair). Society of Biological Psychiatry, Toronto, Canada.
- 5/2006 “ADHD: Brain and Executive Function Deficits” – Invited talk on a symposium: Expanding the Neurobiological and Neuropsychological Foundation of ADHD: Impact to Clinical Practice (Tom Spencer, Chair). Industry Sponsored, American Psychiatric Association, Toronto, Canada.
- 7/10/06 “Altered Brain Activation In Adults At Genetic Risk For Bipolar Psychosis: A Functional Magnetic Resonance Imaging Study Of Working Memory”, Part of a symposium on Endophenotypic Markers in Bipolar Disorder” (David Glahn, Chair). College International Neuropsychopharmacology (CINP), Chicago.
- 10/3/06 “Neurocognitive Functioning in the Prodrome to Psychosis from the NAPLS Collaboration”, Part of a symposium on “Reporting from the North American Prodrome Longitudinal Studies (NAPLS)”, International Early Psychosis Association meeting, Birmingham, England.
- 10/4/06 “Altered cortical thickness in adolescents and young adults at genetic risk for schizophrenia”, International Early Psychosis Association meeting, Birmingham, England.
- 10/30/06 “Altered cortical thickness in adolescents and young adults at genetic risk for schizophrenia”, World Congress on Psychiatric Genetics meeting. Sardinia, Italy.
- 7/24/07 “Genetic Risk, Cognitive Impairment, and Clinical Symptoms as Predictors of First Episode Psychosis”, Presentation to NIMH Director and other NIMH program staff at NAPLS Annual meeting, Washington, DC.
- 10/24/07 “Neuroanatomy of ADHD: A multi-modal magnetic resonance imaging approach” (Symposium Chair and Speaker: “Volumetric Abnormalities in ADHD Identified by Magnetic Resonance Imaging”), American Academy of Child and Adolescent Psychiatry, Annual meeting, Boston, Mass.
- 10/25/07 “Genetic risk, cognitive and neural substrates of susceptibility to schizophrenia”, In a symposium, “Schizophrenia risk, phenomenology, cognition, neural substrates, drug use and treatments. American Academy of Child and Adolescent Psychiatry, Annual meeting, Boston, Mass.
- 4/26/08 “Neurocognitive Functioning across the Lifespan in Schizophrenia” – In a conference honoring Eugen Bleuler – “Psychopathology of Schizophrenia: 100 years”, Polikliuque du DP-CHUV, Lausanne, Switzerland.

- 5/3/08 “Functional and structural indices of adolescent brain development in the risk for schizophrenia” Symposium Co-Chair and Speaker in: “Mapping the development of cortical circuits through adolescence in healthy subjects and neurodevelopmental disorders”, Aysenil Belger, PhD, Chair), Society of Biological Psychiatry, Washington, DC.
- 5/7/08 “Predicting Psychosis Onset in Youth at High Clinical Risk: The Effects of Prodromal Symptoms, Neurocognition and Family History”, Speaker in: “Advances in Early Detection, Treatment, and Prevention of Psychosis: Findings from the North American Prodrome Longitudinal Study”, Robert Heinssen, PhD, Chair), NIMH Science Track, Annual Meeting of the American Psychiatric Association, Washington, DC.
- 5/23/08 A Lifespan Understanding of Neurocognition in Schizophrenia – “From Premorbid Risk to Illness” – Danish Psychiatric Society, Copenhagen, Denmark.
- 5/28/08 “Insights into Brain and Behavior in Psychosis Spanning the Premorbid, Prodromal, and First Episode Periods” – Psychiatric Grand Rounds, Zucker Hillside Hospital, Queens, New York.
- 6/21/08 “When does most neurocognitive decline occur in schizophrenia?”, “Cognition in Schizophrenia” (Phillip Harvey, organizer): A Satellite meeting of the First Annual Schizophrenia International Research Society (SIRS), Venice, Italy.
- 6/23/08 “Neuropsychological function at age 7 in those who later develop schizophrenia or affective psychosis and their non-psychotic siblings”, Speaker in: “From Vulnerability Markers to Disease-Specific Prediction of Psychosis”, (Larry J. Seidman, PhD, Chair), First Annual Meeting of the Schizophrenia International Research Society (SIRS), Venice, Italy.
- 6/24/08 “The Neuropsychology of the Prodrome to Psychosis in the NAPLS Study: Relationship to Family History and Conversion to Psychosis”, Speaker in: “Predictors of Psychosis: Results from Multi-site Longitudinal Prodrome Studies in Europe and North America”, (Jean Addington, PhD and Joachim Klosterkotter, MD. Chairs), First Annual Meeting of the Schizophrenia International Research Society (SIRS), Venice, Italy.
- 10/10/08 “Cognitive and Neural Substrates of Susceptibility to Schizophrenia”, Brooklyn College, The City University of New York Department of Psychology – Fall 2008 Colloquia, Brooklyn, New York.
- 11/17/08 “Cortical Circuitry Abnormalities in the Risk for Schizophrenia”, 9th Annual Psychiatric Symposium – Schizophrenia, Wright State University Boonshoft School of Medicine, Dayton, Ohio
- 2/11/09 Speech Honoring Career Achievement Award to Allan F. Mirsky, PhD., 37th Annual Meeting of the International Neuropsychological Society, Atlanta, Ga.
- 3/27/09 “Premorbid Intellectual Functioning in Schizophrenia”, The International Congress-Emory University Cognition Satellite Meeting, San Diego, Ca.
- 4/1/09 Chair, Symposium: “Altered critical period development in schizophrenia: a circuit

perspective from mouse to man”. Speaker- “Neurocognition in Early Psychosis: From Prodrome to First Episode and Beyond”, The 12th International Congress on Schizophrenia Research Biannual Meeting (San Diego, Calif).

- 6/11/09 “Neurocognition in the Prodrome”. Speaker – “A Bridge Over Troubled Water: Early Detection and Intervention in Schizophrenia”, University of Haifa, Psychology Department, (Haifa, Israel).
- 6/14/09 “Medial Prefrontal Cortex Alterations and Attenuated Psychotic Symptoms: Results from the Harvard Adolescent High Risk Study”. Speaker in “Psychotic symptoms in the general population: what are they, and what is their significance? Dept of Psychiatry of the Sackler Medical School, Tel Aviv University (Tel Aviv, Israel).
- 6/28/09 Co-Chair, Symposium: “Advances in the Neuroimaging of ADHD”. Speaker Replacement for Ariel Brown, PhD: “Genetic Imaging as a Method for Identifying Pathophysiological Heterogeneity in Psychiatric Disorders”, The 9th World Congress of Biological Psychiatry Meeting (Paris, France).

b). Other Professional and educational leadership roles

- 2/1990 Invited Chair, “Neuropsychology of Schizophrenia” Paper Session, International Neuropsychological Society Annual Meeting, (Orlando, Florida)
- 2/1996 Invited Chair, “Neuropsychology of Schizophrenia” Paper Session, International Neuropsychological Society Annual Meeting, (Chicago, Illinois)
- 4/2003 Co-Chair, “Secrets of the Forgotten Sense in Schizophrenia: Utilizing Olfaction to Understand Fronto-Limbic Networks”, The International Congress on Schizophrenia Research Biannual Meeting (Colorado Springs, Colorado)
- 4/2005 Annual Presentation of the Commonwealth Research Center to the Commonwealth of Massachusetts Department of Mental Health, Boston, Mass.
- 10/2005 Co-Chair, “Molecular Genetics of Human Cognition”, World Congress on Psychiatric Genetics Annual Meeting (Boston, Mass).
Discussant- “Can Genetic Variation be Imaged”? World Congress on Psychiatric Genetics Annual Meeting (Boston, Mass).
- 1/2006 Annual Presentation of the Commonwealth Research Center to the Commonwealth of Massachusetts Department of Mental Health, Boston, Mass.
- 4/2007 Program Committee and Chair (Paper Session), “Heterogeneity and Course of Neuropsychological Functioning in Schizophrenia”, The International Congress on Schizophrenia Research Biannual Meeting (Colorado Springs, Colorado)
- 4/2008 Annual Presentation of the Commonwealth Research Center to the Commonwealth of

Massachusetts Department of Mental Health, Boston, Mass.

3/2009 Annual Presentation of the Commonwealth Research Center to the Commonwealth of Massachusetts Department of Mental Health, Boston, Mass.

E. Report of Clinical Activities

- 1). **Description of Clinical Practice:** My training is in neuropsychology, psychodiagnostic assessment and psychodynamically-oriented psychotherapy. I have practiced in teaching hospitals since the end of my training in the latter part of the 1970's (I worked for 7 years in inpatient psychiatry), and independently in private practice since 1981. In private practice I do neuropsychological evaluations, perform consultations about neuropsychological and psychiatric problems, and conduct long-term psychotherapy. My practice is limited because of my academic work (currently and for the past decade, approximately 4-5 hours per week), but I am sought after by patients for neuropsychological consultations, particularly those involving learning disabilities, ADHD and risk of developing psychotic disorders. I have also written about the emotional experience of people growing up with undiagnosed learning disabilities and conducted psychotherapy with such people. These themes were interwoven in my previous teaching as (former) Director of Neuropsychological Services and Training at Massachusetts Mental Health Center. In that role, I have supervised approximately 30 neuropsychology fellows and a similar number of clinical psychology interns.
- 2). **Patient load:** Since about 1990, when my research activities increased, my practice has rarely exceeded a day per week and is now typically 4-5 hours/week. In the 1980's, my professional balance of activities was more evenly divided between private practice (perhaps 15-20 hours per week) and academic work. My earlier psychotherapeutic work involved very complex and ill patients with schizophrenia and borderline personality disorders. In the past decade, my practice is with relatively healthier patients with neuropsychological and mood disorders primarily.
- 3). **Clinical contributions:** I specialize in working with teenagers and young adults with learning and attention disorders (age 14-30), and risk for psychosis. In particular, I am currently speaking about the issues people in this age group face as they cope with early psychosis symptoms and ADHD.

PART III: Bibliography:

Original Articles – Peer reviewed (n=180)

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