

CURRICULUM VITAE

Fumiko Hoeft, M.D., Ph.D.

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EDUCATION & CLINICAL TRAINING

- 2003 Ph.D. in Neuroscience and Neurophysiology
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan
- 1995 - 2001 Resident, Clinical Fellow, Clinical Neurophysiology Fellow
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan
- 1995 M.D., Japanese National Board for Medicine Examination and Licensure
- 1989 - 1995 Medical student
Keio University School of Medicine, Tokyo, Japan
- 1994 Visiting medical student
Department of Psychiatry & Pain Clinic, Mayo Clinic, Minnesota USA

RESEARCH TRAINING

- 2003 - 2005 Postdoctoral Fellow, Department of Psychology, Stanford University, CA USA (Cognitive Neuroscience)
- 2000 - 2002 Research Fellow, Brain Mapping Center, UCLA School of Medicine, CA USA (Neurophysiology and Cognitive Neuroscience)
- 2000 - 2003 Research Fellow, Computation & Neural Systems, California Institute of Technology, CA USA (Neurophysiology and Systems Neuroscience)
- 1998 - 2000 Research Fellow, Division of Behavioral Neurology, Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical School, MA USA (Neurophysiology)

POSITIONS

- 2012 - Associate Professor of Psychiatry (Step 3), Dept of Psychiatry UCSF, CA USA
- 2012 - Director, Laboratory for Educational Neuroscience (LENS), Division of Child and Adolescent Psychiatry, Dept of Psychiatry & Weill Institute for Neurosciences UCSF, CA USA
- 2012 - Scientist, Haskins Laboratories, CT USA
- 2011 - Adjunct Faculty, Dept of Psychiatry Keio University School of Medicine, Tokyo Japan
- 2012 - 2013 Visiting Associate Professor, Dept of Psychiatry Stanford Univ Sch of Med, CA USA
- 2008 - 2011 Associate Director of Neuroimaging Applications, CIBSR, Stanford University School of Medicine, CA USA
- 2008 - 2011 Instructor, Dept of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, CA USA
- 2006 - 2008 Senior Research Scientist, Dept of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, CA USA
- 2004 - 2006 Research Associate, Dept. of Psychiatry, Stanford University School of Medicine, CA USA

2003 - 2007 Visiting Scientist, Division of Biology, California Institute of Technology, CA USA

ORGANIZING COMMITTEES [Conferences, Courses] & SERVICES

- 2016 - National Center for Learning Disabilities (NCLD) Professional Advisory Board
- 2016 - California Department of Education, AB1369 State Guidelines Work Group Member
- 2016 - UCSF Research Allocation and Evaluation Committee (REAC)
- 2015 - International Dyslexia Association (IDA) Board of Directors
- 2015 - Co-Organizer with Albert Galaburda (Harvard) and Nadine Gaab (Harvard)
2016 Biennial Symposium by The Dyslexia Foundation, St. Croix. US Virgin Island, USA
- 2015 - Synapse School Neuroscientist in Residence, Mountain View CA USA
- 2014 - Annual Learning and the Brain Conference, San Francisco CA, USA
- 2014 - Biennial Innovative Learning Conference Organizing Committee Member, CA USA
- 2013 - UCSF Resource Allocation Program (RAP) Career Development Review Committee
- 2013 - UCSF Department of Psychiatry, Otswald Lecture Planning Committee
- 2013 - UCSF Child and Adolescent Psychiatry Grand Rounds Committee
- 2012 - Bay Area Discovery Museum, Center for Childhood Creativity Scientific Advisor, CA USA
- 2012 - UCSF Dyslexia Center Board
- 2013 - 2015 UCSF Department of Psychiatry, Faculty Council
- 2014 Joint UCSF – Dyslexic Advantage Scientific Symposium on Dyslexia Beyond Reading: Memory, Cognition, Expertise, and Innovation. March 2014, San Francisco CA, USA, Co-Organizer
- 2009 - 2013 Annual Cognitive Neuroscience Society (CNS) Meeting, Poster Committee Member
- 2004 - 2006 World Association for Young Psychiatrists and Trainees (WAYPT) Board Member
- 2003 2003 WAYPT Meeting, May 2003; San Francisco, CA USA, President & Organizer
- 2002 WAYPT Founding Member
- 1999 - 2002 XII World Congress of Psychiatry. (WCP) August 2002; Yokohama, Japan, Committee Member for Public Relations
- 1999 - 2002 XII WCP. August 2002; Yokohama, Japan, Fellowship and Young Participants Committee Member
- 1999 - 2000 TMS Continuing Medical Education Course Coordinator.. Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical School, MA USA
- 1998 - 1999 XI WCP Committee Member for Young Psychiatrists. August 1999; Hamburg, Germany
- 1997 - 1998 International Conference in Collaboration with World Psychiatric Association (WPA) and World Health Organization (WHO), Committee Member: Rethinking Somatoform Disorder. February 1998; Tokyo, Japan

CHAIR [Workshops, Symposia]

- 2016 2016 International Dyslexia Association Conference, Preconference Workshop, Orlando FL, USA
- 2016 2016 2nd TDF (The Dyslexia Foundation) Conference, San Francisco CA, USA
- 2013 Dyslexia session. Symposium on L1 Reading Across Different Languages & L2 Literacy Acquisition. May 2013, Jhongli City Taiwan.

- 2012 *Latest advances in neurobiological research on learning disabilities and its clinical implications. Annual Meeting of AACAP.* October 2012, San Francisco CA, USA.
- 2011 *Nanosymposium Session 639. ADHD, SLI, Dyslexia, and Other Specific Disorders of Neurobehavior I.* Society for Neuroscience Annual Meeting, November 2011; Washington DC, USA
- 2003 WAYPT Meeting, May 2003; San Francisco, CA USA
- 2002 *New Biological Treatments in Psychiatry.* XII WCP, August 2002; Yokohama, Japan
- 2002 *Key Mental Health Challenges and Opportunities Across the World.* XII WCP, August 2002; Yokohama, Japan
- 1998 *Somatization in Different Cultures (II).* International Conference in collaboration with WPA and WHO: Rethinking Somatoform Disorder. February 1998; Tokyo, Japan

TEACHING

- 2016 *Westmark School, CA USA. Professional Development*
- 2016 *Jefferson School, CA USA. PTA*
- 2015 - 2016 *UCSF Child & Adolescent Psychiatry Didactics: Neuroscience of Language*
- 2015 - 2016 *UCSF Child & Adolescent Psychiatry Didactics: Learning disabilities (3x)*
- 2015 - 2016 *UCSF Child & Adolescent Psychiatry Didactics: Intervention for learning disabilities (2x)*
- 2015 *UCSF Child & Adolescent Psychiatry Fellows: Neuroscience of dyslexia*
- 2015 - 2016 *Synapse School. Professional Development & Parent Education (5x)*
- 2015 *Silverston School, CO USA. PTA*
- 2015 *Lone Mountain Children's Center, CA USA. Professional Development Day*
- 2015 *UCSF Psychiatry Residents Symposium on Neurodevelopment:*
- 2015 *UCSF Child & Adolescent Psychiatry: Neurodevelopmental Formulation. Assessment and Care of Children with a Family History of Learning Disabilities*
- 2014 *International School of Bangkok, Thailand. Professional Development*
- 2014 *ABC Preschool, CA USA. Professional Development Day & PTA*
- 2014 *UCSF BioMedical Sciences (BMS) 270 - Human Neuroscience*
- 2014 *UCSF Child & Adolescent Psychiatry: Neurodevelopmental Formulation. ADHD comorbidity with Dyslexia*
- 2014 *UCSF CAP 1 Fellows: Neurodevelopmental Seminar: Neuroimaging Methods and Applications*
- 2012 *UC Berkeley Cognitive Neuroscience Graduate Seminar (Instructor: Silvia Bunge)*
- 2012 *UCSF PGY-3 Didactics: Intro to Clinical Neuroimaging*
- 2009-2011 *Stanford PSYC 399: Graduate Research*
- 2008-2011 *Stanford PSYC 250: Methodology of Research in Behavioral Sciences
Neuroimaging Research Methods (winter quarter)*
- 2007 *Stanford PSYC 250: Methodology of Research in Behavioral Sciences (May 18, 2007).*
- 2005 *Suuri-no Tsubasa Summer Seminar (for high school and undergraduate students with talents in maths and sciences selected from all over Japan), Tokyo, (August 6 – 12, 2005).
<http://www.npo-tsubasa.jp/tsubasa>*
- 2005 *Transcranial Magnetic Stimulation (TMS): Basic Principles and its Applications. Stanford University, Cognitive Neuroscience Course for Undergraduates, CA USA*

- 2001 *TMS Studies of Depression*. Centro Brasileiro de Estimulacao Magnetica Transcraniana, Sao Paolo, Brazil (February 6-10).
- 1999 - 2000 *TMS Continuing Medical Education (CME) Course*. Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical School, MA USA

REVIEWING FOR GRANT AGENCIES AND JOURNALS

I. Review Panels and other Panels

- Member, CA Department of Education, Dyslexia Law AB1369 State Guidelines Work Group
- Member, UNESCO UNITWIN Network on Inclusive Literacy for All, May 2015-
- Member & Remarks, White House OSTP workshop on Neuroscience of Learning, Jan 2015
- Member, NIH DP5 Review Panel NH DP5 Review Panel ZRG1 BBBP-E 53 R, March 2013
- Member, NIH Forward Focus Workshop: Strategic Planning for the Common Fund, San Francisco, May 2012
- Member, DoD Cognitive Neuroscience of Second Language Acquisition Meeting, Washington DC, November 2011
- Member, NICHD Learning Disabilities Research Center (LDRC) P50 Grant Review Committee ZHD1 DSR-H (53), July 2011
- Member, NICHD's Scientific Vision Meeting, June 2011
- Member, NICHD's Scientific Vision, Behavior Workshop Organizing Group, February 2011
- Member, Review Panel, Surgical Sciences, Biomedical Imaging and Bioengineering IRG, NIH USA, 2008
- Member, Advisory Panel, Cognitive Neuroscience Program, NSF, June/December 2002.

II. Editorial Boards

- The Open Medical Imaging Journal, 2007-
- Frontiers in Human Neuroscience, 2008-
- Open Journal of Neuroscience 2009-
- New Directions for Child and Adolescent Development 2014- (Associate Editor)
- AERA (American Education Research Association) Open 2014-
- Mind Brain and Education Journal 2015- (Associate Editor)
- Current Opinion in Behavioral Sciences 2016 (Guest Editor with John Gabrieli (MIT) and Denes Szucs (Cambridge))

III. Ad Hoc Reviewer

- Journals: AERA Open, Am J Ment Retard, Ann Neurol, Arch Gen Psychiatry, Biol Psychiatry, Biol Psychol, Bipolar Disord, Brain, Brain Lang, Brain Struct Funct, Cereb Cortex, Conscious Cogn, Dev Cog Neurosci, Dev Neuropsych, Dev Sci, Exp Brain Res, Eur J Neurosci, Hum Brain Mapp, Int J Dev Neurosci, Int J Neuropsychopharmacol, Invest Radiol, J Cogn Neurosci, JIDD, J Learn Disabil, J Neurosci, J Psychiatr Res, Lang Cogn Process, Ment Retard Dev Disabil Res Rev, Neurocase, NeuroImage, NeuroImage Clinical, Neuropsychologia, Neurosci Lett, New Directions for Child and Adolesc Develop (NDCAD), Pain Med, PLoS ONE, PNAS, Psychiatric Res, Psychophysiology, Scand J Psychol, TOMJ, The Tohoku J Exp Med
- Grants: Cognitive Neuroscience Program, NSF
Neurological Foundation of New Zealand
Medical Research Council (MRC) of the U.K.
National Institute of Health (NIH)

MENTORSHIP

I. Thesis Advisor

Alexander Gantman (PsyD, 2009), Candy Ho (PsyD, 2010), Joshua Heitzmann (PhD, 2010), Nahal Zakerani (PhD, 2011), Hiroko Tanaka (PhD, 2013), Leanne Stanley (PhD, 2012), Brandi Casto (PhD, expected 2014), William Raasch (BSc, 2007, Stanford), Emily Dennis (BA, 2008, Whitman), Natalie Tamburello (BA, 2012, Whitman)

II. Pre-, Post-Doctoral Advisor

Kaori Koshiishi MD PhD (05-06), Alexander Gantman PsyD (05-08), Candy Ho PsyD (05-08), Lisa Sugiura PhD (06-07), Nobuhisa Kobayashi MD PhD (06-07), Joshua Heitzmann PhD (06-08), Nahal Zakerani PhD (07-10), Hiroko Tanaka MS (07-12), Leanne Stanley PhD (08-11), Stuart Red (08), Masanori Nagamine MD PhD (08-09), Moe Phyu Tun PhD (09), Alexandra Thurston MS (09-12), Carolyn Sawyer MD (10), Nicolle Bugescu PhD (10-), Rociel Martinez PhD (10-12), Christine Serrone MA (10-11), Bun Yamagata MD PhD (10-12), Adi Zief MS (11), Emily Kutner PhD (11-14), Mandeep Tumber PhD (11-13), Brandi Casto MS (11-15), Paul Gimenez BA (11-13), Natalie Tamburello BS (11-12), Tracy Thompson PhD (11), Emily A Farris PhD (12-13), Roeland Hancock PhD (13-), Smadar Patael PhD (13-14), Cheng Wang PhD (14-), Janosch Linkerdoersfer PhD (14), Naoki Hashimoto MD PhD (14-15), Petra Ludowicy BSc (15), Vanessa Singh PhD (14), Priscilla Duong PhD (13-), Maaikje Vandermosten PhD (15), Zhichao Xia (14-)

OTHER PROFESSIONAL BACKGROUND

- 2014 - International Dyslexia Association's online newsletter Examiner's regular quarterly contributor to recent news in neuroscience
- 1999 - 2001 Chief Translator, Journal Watch Psychiatry, New England Journal of Medicine
- May, 2000 Translator, www.Medscape.com

AWARDS/HONORS, GRANTS AND MEMBERSHIPS

I. Awards/Honors

- 1994 Summer Fellowship Award, Keio University School of Medicine & Mayo Clinic
- 1998 Young Investigator Award, Japan North America Medical Exchange Fndtn (JANAMEF)
Young Investigator Award, Yoshida Science Promotion Foundation
Young Investigator Award, Cellular Science Research Foundation
- 2000 Fellowship Award [Annual Meeting of Biological Psychiatry]
- 2000 Best Poster Award [IVth Annual Meeting for the International Society for Transcranial Stimulation (ISTS)]
- 2001 Trainee Award [Organization of Human Brain Mapping (OHBM) 2001]
- 2002 Award for Outstanding Contribution [XII World Congress of Psychiatry, WCP]
- 2004 Early Career Award for Outstanding Contribution to Research [Japan Society for Psychiatry and Neurology] (declined)
- 2005 Tom Slick Research Award in Consciousness, Mind Science Foundation
- 2007 Spectrum Child Health & Clin & Transl Science Award, Lucile Packard Fndtn for Children's Health
- 2008 Stanford Postdoctoral Mentor Award (Honorary Mention)
- 2008 Spectrum Child Health & Clin & Transl Science Award, Lucile Packard Fndtn for Children's Health
- 2008 Young Investigator Award, Brain & Behavior Research Foundation

- 2012 NIH DP2 New Innovator Award (finalist)
- 2014 Norman Geschwind Memorial Lecturer, Int'l Dyslexia Association Annual Meeting
- 2015 Temarks at the White House OSTP meeting on Neuroscience of Learning
- 2015 Participatation in the UNESCO UNITWIN Network "Inclusive literacy for all"
- 2015 Transforming Education through Neuroscience Award, Learning & the Brain Foundation & Int'l Mind Brain and Education Society

II. Grants & Fellowship / Scholarship (grants with major or full contribution)

Pending

- Univ of CA Office of the President Multicampus Research Initiative (UCOP MRPI) 454926 (PI Hoeft) 01/01/2017 – 12/31/2019
Science-Based Learning Center (SIL Center) Goal: The long-term goal is for the proposed Univ of CA center integrating efforts from 6 UC campuses is to be a national leader in 'Precision Ed-Health', and tackle issues associated with education and health disparity in underrepresented populations, with an initial emphasis on early identification and intervention of children at risk for learning challenges.
- NIH P20HD091014 (PI Hoeft) 12/01/2016 – 11/30/2020
Science-based Innovation in Learning (SIL) Hub for Learning Disabilities and English Language Learners Goal: The broad, long-term objective of the "Science-based Innovation in Learning (SIL) Hub for Learning Disabilities (LD) and English Language Learners (ELL)" is to address issues associated with education and health inequalities in ELLs, with a particular focus on early identification and intervention of children at risk for LD.

Active

- NIH R01HD078351 (PI Hoeft) 09/01/2015 – 06/30/2020
Understanding literacy acquisition through immersion in foreign languages Goal: To examine neurobiological, language and cognitive profiles as children learn a second language.
- NSF 1540854 SL-CN (PI UCSF/Gazzaley, Role: co-PI) 09/30/2015 – 09/29/2018
Science of Learning - Collaborative Networks: Contributions of executive function subdomains to mathematical cognition and reading in the classroom: Assessment and training Goal: To elucidate how multiple domains of executive functions (EFs) contribute to differences in math and reading in middle childhood.
- NIH R01MH104438 (PI UC Davis/Nordahl, Role: Subcontract PI) 07/10/2014 – 04/30/2019
Neural Phenotypes of Females with Autism Spectrum Disorder Goal: To examine neural mechanisms that differ between females and males with autism spectrum disorders.
- NIH R01MH103371 (PI UC Davis/Amaral, Role: Subcontract PI) 04/01/2015 – 03/31/2020
Neurophenotypic Trajectories and Behavioral Outcomes in Autism Spectrum Disorder Goal: To explore the relationship between brain development, behavioral abnormalities, and cognitive and functional outcome in children with ASD who are transitioning from early to middle childhood.
- NIH R01HD065794 (PI Haskins/Pugh, Role: subcontract PI) 05/10/2011 – 03/31/2017
Neurological Predictors of Spoken and Written Language Learning Goal: This project examines neurocognitive predictors related to procedural learning of oral and written language.
- NIH P01HD001994 (PI Haskins/Rueckl, Role: subcontract PI) 08/01/2012 – 05/31/2017
The Nature and Acquisition of the Speech Code and Reading Goal: To examine language learning using neuroimaging, cognitive psychological, crosslinguistic approaches and computational modeling.
- NIH R01HD044073 (PI Vanderbilt/Cutting, Role: Subcontract PI) 07/01/2015 – 06/30/2016
Cognitive and Neural Processes in Reading Comprehension Goal: To explore the relationship between brain development, and its relationship to behavior and cognition related to reading comprehension.
- UCSF Startup funds (PI Hoeft) 01/01/2012 –
- UCSF Dyslexia Center (PI Hoeft) 04/01/2013 –
iSreener App Goal: To develop apps that can be used to phenotype dyslexia.
- Dennis & Shannon Wong DSEA 88 Wong Family Fndtn (PI Hoeft) 09/01/2015 – 08/31/2016
Brain basis of literacy across writing systems Goal: To perform international collaboration on literacy acquisition
- Bay Area Discovery Museum (PI Hoeft) 10/15 2014 – 10/14 2016
UCSF-CCC Neuroscience Fellowship Goal: To perform community outreach and neuroscience research

with the BADM's Center for Childhood Creativity.

Oak Foundation (PI Hoeft)

09/01/2016 – 08/31/2019

Assessing the impact of mentoring on students with learning differences. Goal: To examine individual differences in factors of LD middle-school children as well as programmatic factors that make one responsive to mentoring.

Past

UCSF RAP Academic Senate Award Pilot for Junior Investigators Grant (PI Hoeft)

02/01/2014 – 06/30/2015

Human Intergenerational Neuroimaging of Emotion Regulation: A Feasibility Study Goal: To dissociate biological, prenatal and postnatal influence on the corticolimbic system using a 'natural' cross-fostering design in humans.

NIH R01HD067254 (PI Vanderbilt/Cutting, Role: Subcontract PI)

09/28/2010 – 07/31/2015

Predicting Late-Emerging RD: Neurobiological and Cognitive Factors Goal: This project will use both neurobiological and cognitive measures to discover the neurobiological profiles of those at risk for LERD in earlier grades and establish the developmental profile of LERD.

UCSF Catalyst Award (PI Hancock, Role: co-PI & mentor)

03/01/2014 – 06/30/2015

Early Mobile Screening for Reading Disorder Risk Goal: To develop an iPad based application to screen risk for developing reading disorder in preschoolers and kindergarteners.

UCSF RAP Digital Health Research (PI Hancock, Role: co-I & mentor)

02/01/2014 – 06/30/2015

Early Mobile Screening for Reading Disorder Risk Goal: To validate an iPad based application to screen risk for developing reading disorder in preschoolers and kindergarteners.

UCSF Radiology Seed Funds (PI: Nagarajan, Role: co-I)

09/01/2014 – 08/31/2015

NIH RO1 HD067312 (PI Gabrieli/Gaab, Role: consultant)

01/10/2011 – 12/31/2015

Using Cognitive Neuroscience to Predict Dyslexia among Kindergarten Children Goal: To characterize K children with and without behavioral risk for developing dyslexia and predict outcome using

Anonymous private donor (PI Hoeft)

06/01/2012 – 05/31/2014

P23916, FWF Austrian Science Fund (PI Kronbichler, Role: consultant)

09/01/2011 – 09/30/2014

Dyslexia: Longitudinal Study of Brain Dysfunctions Goal: To investigate literacy development in at-risk preliterate children using multimodal imaging.

32003B_141201 Swiss National Science Foundation (SNSF) (PI Brem, Role: consultant)

Neural Markers of Grapheme-Phoneme Training Response for Prediction of Successful Reading Acquisition in Children at Familial Risk for Developmental Dyslexia Goal: To predict response to intervention using neuroimaging in preliterate children at-risk for developing dyslexia.

NIH K23HD054720 (P.I.)

08/11/08-07/31/13

P.I. Fumiko Hoeft

PREDICTING READING SUCCESS USING A MULTIMODAL NEUROIMAGING APPROACH

Goal: To develop and validate methods to predict those that will develop reading disabilities in high-risk K children

NARSAD Young Investigator Award (P.I.)

08/01/08-07/31/11

IMPROVING EXECUTIVE FUNCTION USING REAL-TIME FMRI FEEDBACK TRAINING

Goal: Investigate whether real-time fMRI training can improve response inhibition in individuals with fragile X syndrome.

CHRP (Child Health Research Program [currently known as: Lucile Packard Foundation for Children's Health, Spectrum Child Health & Clinical and Translational Science Award) (P.I.)

07/01/08-12/31/10

COMPARISON OF FNIRS AND FMRI IN PRE-K CHILDREN WITH HIGH-RISK FOR DYSLEXIA: TOWARD THE EVENTUAL TRANSLATION OF NEUROIMAGING RESEARCH TO PRACTICE

Goal: To compare fNIRS and fMRI to examine whether fNIRS can be replace fMRI to predict outcome.

NIH 1S10RR024657-01 (co-investigator)
2007 (instrumentation grant)
P.I.: Allan Reiss
NIRS OPTICAL TOPOGRAPHY SYSTEM – HITACHI ETG-4000
Goal: To purchase an NIRS system to perform translational research.

CHRP (Child Health Research Program) (P.I.)
04/01/07-03/31/09
NOVEL APPROACHES TO PREDICTING PROGNOSIS USING FUNCTIONAL AND STRUCTURAL
NEUROIMAGING IN DYSLEXIC CHILDREN
Goal: Development of models to predict future gains in reading in dyslexia using neuroimaging
techniques.

2 R01 MH50047-15 (co-investigator, Role: Neuroimaging Coordinator)
05/01/93-06/30/12
P.I.: Allan Reiss
LONGITUDINAL OUTCOMES AND NEUROIMAGING OF FRAGILE X SYNDROME
Goal: The overarching goal of this study is to expand our knowledge of the association of specific
genetic, environmental, neuroendocrine and neuroanatomical factors with neuropsychiatric outcome in
children with fragile X.

NIH/NINDS 9R44NS050642-03 (co-investigator)
06/01/04 - 07/31/07
P.I.: R. Christopher deCharms (Neurion), Co-P.I. John Gabrieli (Stanford University).
APPLICATION OF REAL TIME FMRI - Phase II
Goal: develop and test methods for real time fMRI data analysis and subject training using gradient echo
BOLD imaging.

NIH/NIDA N44DA (co-investigator)
06/01/05 - 05/31/07
P.I.: R. Christopher deCharms (Neurion), Co-P.I. John Gabrieli (Stanford University).
VIRTUAL REALITY AND REAL TIME FMRI – Phase II
Goal: develop and test methods for long-term treatment of chronic pain using virtual reality and real time
fMRI.

Mind Science Foundation (P.I.)
11/01/05 - 10/31/06
Co-P.I./mentor: Allan Reiss (Stanford University)
CONTROL OVER THE NEURAL SUBSTRATES MEDIATING THE CONSCIOUSNESS PERCEPTION
OF PAIN USING REAL-TIME FMRI
Goal: develop and test methods for real time fMRI data analysis using networks of brain regions rather
than a single region of interest.

NSF BCS 0305376 (co-investigator)
07/01/03 - 06/30/06
P.I.s: Shinsuke Shimojo (California Institute of Technology), John Gabrieli (Stanford University).
COLLABORATIVE RESEARCH: DEVELOPMENT OF TRANSCRANIAL MAGNETIC STIMULATION
COILS FOR COGNITIVE NEUROSCIENCE RESEARCH
Goal: develop and test methods for a new TMS tool that rapidly switches direction of current in multiple
coils.

NIH/NIDA N43DA-4-7748 (co-investigator)
06/01/04 - 05/31/05
P.I.: R. Christopher deCharms (Neurion), Co-P.I. John Gabrieli (Stanford University).
VIRTUAL REALITY AND REAL TIME FMRI – Phase I
Goal: feasibility test VR stimuli in combination with real time fMRI using gradient echo BOLD in training
pain patients to control brain activation while controlling pain.

Japan North America Medical Exchange Foundation (JANAMEF; fellowship).
1998 – 1999

Cellular Science Research Foundation (P.I.)
1998 – 1999

Yoshida Science Promotion Foundation (P.I.).
1998 – 1999

Keio University School of Medicine & Mayo Clinic (fellowship)
1994

III. Memberships

- 2014 - American Association for the Advancement of Sciences (AAAS)
- 2012 - American Academy of Child & Adolescent Psychiatry (AACAP)
- 2010 - International Dyslexia Association (IDA)
- 2010 - International Mind Brain and Education (IMBES)
- 2009 - Association for Psychological Sciences (APS)
- 2007 - American Educational Research Association (AERA)
- 2007 - Society for the Scientific Study of Reading (SSSR)
- 2001 - Organization for Human Brain Mapping (OHBM)
- 2001 - Society for Neuroscience (SFN)
- 2001 - Cognitive Neuroscience Society (CNS)
- 2003 - 2004 International Multisensory Research Forum (IMRF)

PUBLICATIONS

A total of 127 publications. 6 peer-reviewed pubs under review. 96 peer-reviewed pubs published, of which 29 1st authored, 23 senior authored. 25 non-peer-reviewed, of which 17 1st authored, 7 are senior authored.

I. Peer Reviewed Articles (those with a * are not on Pubmed)

1. Ho TC, Sanders SJ, Gotlib IH, **Hoef F.** Intergenerational neuroimaging of human brain circuitry. ***Trends in Neurosci*** (revision submitted)
2. Hancock R, Richlan F, **Hoef F.** Possible roles for frontostriatal circuits in reading disorder. ***Neurobio Beh Rev*** (revision submitted)
3. Hancock R, Gabrieli JDE, **Hoef F.** Evidence for shared temporoparietal dysfunction in dyslexia and typical readers with discrepantly high IQ. ***Trends in Neurosci & Ed*** (revision submitted)
4. Xia Z, Hancock R, **Hoef F.** Neural basis of reading disability Part II: Etiological investigations. ***Language Linguistics Compass*** (under revision)
5. Black JM, Xia Z, **Hoef F.** Neurobiological bases of reading disability Part I: Developmental aspects of neural impairments. ***Language Linguistics Compass*** Review. (under revision)
6. Patael S, Farris EA, Black JM, Hancock R, Gabrieli JDE, Cutting L, **Hoef F.** Prefrontal cortex buffers against poor reading comprehension in children with dyslexia. ***Neuropsychologia*** (under review)
1. Szűcs D, **Hoef D.** Editorial overview: Neuroscience of education. ***Curr Opin Behav Sci*** 2016 Aug;10:iv-vi.
2. Haft SL, Myers CA, **Hoef F.** Socio-emotional and cognitive resilience in children with reading disabilities. ***Curr Opin Behav Sci*** 2016 Aug;10:133-141.
3. Vandermosten M, **Hoef F,** Norton ES. Integrating MRI brain imaging studies of pre-reading children with current theories of developmental dyslexia: A review and quantitative meta-analysis. ***Curr Opin Behav Sci*** 2016 Aug;10:155-161. DOI: 10.1016/j.cobeha.2016.06.007 PMID: 27458603; Review. PMCID: PMC4957935

4. Bailey S, **Hoef F**, Aboud K, Cutting L. Anomalous gray matter patterns in specific reading comprehension deficit are independent of dyslexia. *Ann Dyslexia* 2016 Jun 20. DOI:10.1007/s11881-015-0114-y PMID: 27324343; PMCID: under progress
5. Myers CA, Wang C, Black JM, Bugescu N, **Hoef F**. The matter of motivation: Striatal resting-state connectivity is dissociable between grit and growth mindset. *Soc Cogn Affect Neurosci* 2016 May 11. pii: nsw065. DOI: 10.1093/scan/nsw065 PMID: 27217105; PMCID: under progress
6. Eckert MA, Berninger VW, **Hoef F**, Vaden KI, Dyslexia Data Consortium. A case of Bilateral Perisylvian Syndrome with reading disability. *Cortex* 2016;76:121-4. doi: 10.1016/j.cortex.2016.01.004. Epub 2016 Jan 19. PMID: 26861558; PMCID: PMC4776332
7. Yamagata B, Murayama K, Black JM, Gimenez P, Mimura M, Yang TT, Reiss AL, **Hoef F**. Female-specific intergenerational transmission patterns of the human corticolimbic circuitry.. *J Neurosci* 2016;36(4):1254-60. doi: 10.1523/JNEUROSCI.4974-14.2016. PMID: 26818513; PMCID: PMC4728726 Press release: UCSF
8. Xia Z, **Hoef F**, Zhang L, Shu H. Neuroanatomical anomalies of dyslexia: Disambiguating the effects of disorder, performance, and maturation. *Neuropsychologia* 2016;81:68-78. doi: 10.1016/j.neuropsychologia.2015.12.003. Epub 2015 Dec 8. PMID: 26679527; PMCID: PMC4790432
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107. **Maeda, F.**, Shirahase, J. and Asai, M. Taijin kyofusho as one aspect of somatoform disorders in Japan. *Keio J Med*. 1998; 47: S19.
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VII. Translations

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3. *New England Journal of Medicine, Journal Watch Psychiatry*, April 1999 – December 2001
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5. *Stedman's Medical Dictionary* (Nurse edition) (Japanese 1st edition). Takaku F, ed. Tokyo: Medical View, 1998.
6. *Stedman's Medical Dictionary* (CD-ROM) (Japanese 1st edition). Takaku F, ed. Tokyo: Medical View, 1998.
7. *Medscape*, July 2000.

PRESENTATIONS

I. Invited Conference Talks

1. International Dyslexia Association (IDA) Preconference Workshop. October 2016; Orlando FL, USA.
2. Distinguished Lecturer. Research on Challenges in the Acquisition of Language and Literacy (RCALL) Initiative. Georgia State University. September 2016; Atlanta GA, USA.
3. TEDxSausalito. September 2016; Sausalito CA, USA.
4. Eye To Eye 2016 Partners Day. Brown University. August 2016; Providence RI, USA.
5. The Dyslexia Foundation Symposium "Geschwind-Galaburda Hypothesis – 30 years later". St. Croix US Virgin Islands, USA.
6. Association for Psychological Sciences. Educational Neuroscience Symposium. May 2016; Chicago IL, USA.
7. xTech (3rd Annual Experiential Technology & NeuroGaming Conference and Expo). May 2016; San Francisco CA, USA.
8. Keynote speaker for Research and Public Forums: iWORDD (International Workshop on Reading and Developmental Dyslexia). May 2016; Bilbao, Spain.
9. Keynote speaker: University of Connecticut Language Fest. April 2016, Storrs CA, USA.
10. Learning and the Brain Conference. Feb 2016, San Francisco CA, USA.
11. Haskins Yale Global Health Summit 2015, Dissociating factors that impact literacy acquisition. Dec 2015, New Haven CT, USA.
12. Keynote speaker & Award winner: Learning and the Brain Conference. Nov 2015, Boston MA, USA.

13. Speaker. Innovative Learning Conference 2015, Oct 2015, Hillsborough CA, USA.
14. Workshop. EdRev 2015. April 2015, AT&T Park, SF CA, USA.
15. Creativity Talks speaker: Bay Area Discovery Museum, Center for Childhood Creativity. March 2015, Sausalito CA, USA.
16. Norman Geschwind Memorial Lecturer: International Dyslexia Association (IDA) Annual Meeting. An integrative approach to dyslexia research: Translating practice to research and back to practice. November 2014, San Diego CA, USA.
17. Keynote speaker: Int'l Mind Brain and Education Society (IMBES) Annual Meeting. Mind, brain & education as a 'symbiotic closed-loop system': Studying the intersection of neurobiology, external and internal environment. November 2014. Fort Worth TX, USA.
18. AACAP Clinical Perspectives "Dyslexia: Integrating New Knowledge into Mental Health Treatment. Socio-emotional aspects of reading disabilities. October 2014. San Diego, CA USA.
19. NIAS (Nat'l Institute of Advanced Studies) Workshop on Dyslexia Across Languages and Writing Systems. Intergenerational Imaging of Human Brain Networks. September 2014. Amsterdam, The Netherlands.
20. Workshop speaker: Cognitive Neuroscience Summer Institute. Multivariate Pattern Analysis. September 2014, Salzburg, Austria.
21. Keynote speaker: Cognitive Neuroscience Summer Institute. Translational Potential of Neuroimaging. September 2014, Salzburg, Austria.
22. Multimodal Neuroimaging Training Program (MNTP). U Pittsburgh / Carnegie Mellon Univ. Translational Potential of Neuroimaging. June 2014, Pittsburgh PA, USA.
23. Brain basis of stealth dyslexia. Joint UCSF – Dyslexic Advantage Scientific Symposium on Dyslexia Beyond Reading: Memory, Cognition, Expertise, and Innovation. March 2014, San Francisco CA, USA.
24. The brain and biological basis of grit, motivation, mindset and stereotype threat. *Learning & the Brain Conference on Teaching Self-Aware Minds*. February 2014, San Francisco CA, USA.
25. Practical applications of neuroimaging to practice – taking dyslexia (reading problem) as an example. *Learning & the Brain Conference on Teaching Self-Aware Minds*. February 2014, San Francisco CA, USA.
26. Keynote speaker: Dissecting the brain basis of dyslexia using discrepancy. Symposium: Interventions for dyslexia and dyscalculia. Hosted by the German Federal Ministry of Education and Research (BMBF). November 2013, Munich, Germany.
27. Dissecting the brain basis of dyslexia using discrepancy. Symposium: New Directions in Cognitive Neuroscience Research on Dyslexia. International Dyslexia Association Annual Meeting. November 2013, New Orleans LA, USA.
28. Dissecting the neurobiological correlates of dyslexia & reading through a clinical lens. Hong Kong University Symposium. July 2013, Hong Kong.
29. Giving old theories a fresh look: Investigating old wives' "dyslexia" takes using neuroimaging. Symposium on L1 Reading Across Different Languages & L2 Literacy Acquisition. May 2013, Jhongli City Taiwan.
30. Functional brain basis of hypnotizability (with David Spiegel). Symposium: Lifestyle behaviors and mental health. American Psychiatric Association Annual Meeting. May 2013, San Francisco CA, USA.
31. Neuroimaging predictors of reading outcome. Oxford-Kobe Meeting. April 2013, Oxford UK.
32. Neuroimaging evidence of stealth dyslexia & visuo-spatial abilities in dyslexia. Dyslexia & Talent Conference. April 2013, Norwalk CT, USA.
33. Alan Alda talks with the experts: Discussions on dyslexia. *Millbrook NY*. April 2013, Millbrook NY, USA.
34. Neurobiological basis of twice exceptionality. *Learning & the Brain Conference on Creativity*. February 2013, San Francisco CA, USA.

35. Multivariate Pattern analysis (MVPA) in neuroimaging. *2012 MNC Summer Institute: Social Developmental Neuroscience*. June 2012; Baltimore MD, USA
36. Keynote speaker: Neuroprognosis: Predicting academic achievement and outcome of a disorder using neuroimaging. *EARLI Sig 22*. May 2012; London UK
37. Disentangling controversial theories of reading and dyslexia using neuroimaging. GraphoWORLD Summer School. September 2011; Jyväskylä, Finland
38. Considering the future role of brain imaging in predicting academic achievement. *International Mind, Brain and Education Society 3rd Biennial Conference*. June 2011; San Diego CA, USA
39. Keynote speaker: Neuroprognosis: Predicting reading outcome in children using neuroimaging. *EARLI Sig 22, Satellite Symposium: Educational Neuroscience and Dyslexia Symposium*. June 2010; Zurich Switzerland
40. Prediction of children's reading skills: Understanding the interplay among genes, environment, brain, and behavior. *The 12th Extraordinary Brain Symposium hosted by The Dyslexia Foundation*. June 2010; Ashford Ireland
41. Neuroprognosis: Predicting children's reading skills using brain scans. *Learning and the Brain*. February 2010; San Francisco, CA, USA
42. Brain basis of learning disabilities, giftedness and creativity. *Gifted Learning Conference*. October 2009; Hillsborough, CA, USA
43. Keynote Speaker: Genetics and social cognition in Williams and fragile X syndromes. *Annual Meeting of the Neuropsychology Association of Japan*. September 2009; Tokyo, Japan
44. Application of real-time fMRI. *Annual Meeting of the Neuropsychology Association of Japan*. September 2009; Tokyo, Japan
45. The use of multivariate pattern classification in clinical developmental cognitive neuroscience. *UCB Conference on Neurocognitive Development*. July 2009; Berkeley, CA, USA
46. Dyslexia: Dysfunction and compensatory mechanisms. *International Congress of Psychology*. July 2008; Berlin Germany
47. Brain basis of learning disabilities and implications for individuals differences in learning. *Gifted Learning Conference*. October 2007; Hillsborough CA, USA.
48. Real-time fMRI and its application. *Association for the Scientific Studies of Consciousness, Plenary Symposium, Las Vegas NV, USA, July 2007*.
49. Neural basis of hypnotizability. *American Psychological Association Annual Meeting, New Orleans LA USA, August 2006*.
50. Ethical and training issues in biological psychiatry. *FYP Program Workshop: XII World Congress of Psychiatry*. August, 2002; Yokohama, Japan
51. New biological treatments in psychiatry: Transcranial magnetic stimulation. *XII World Congress of Psychiatry*. August 2002; Yokohama, Japan
52. Motor activations during action recognition: brain imaging evidence. *HFSP Workshop on "Mirror System: Humans, Monkeys and Models" at Univ South California*. November, 2001; Los Angeles CA, USA.
53. TMS studies of cortical excitability in depression. *International Symposium on Electromagnetics in Biology and Medicine*. April, 2001; Tokyo, Japan.
54. TMS studies of the mirror neuron system. *12th World Congress of the International Society for Brain Electromagnetic Topography (ISBET 2001) / 3rd Annual Meeting, Japan Human Brain Mapping (3rd JHBM) / 18th Japanese Society for Brain Electromagnetic Topography (18th JSBET) / 27th Annual Meeting of Character, Behavior, Electroencephalogram Society (27th CBES)*. March, 2001; Utsunomiya, Japan.
55. Studying depression with transcranial magnetic stimulation. *30th Annual Congress of the Japanese Society of Clinical Neurophysiology*. December, 2000; Kyoto, Japan.

56. Transcranial magnetic stimulation studies of cortical excitability in mood disorders. *10th Congress of the Association of European Psychiatrist*. October, 2000; Prague, Czech.
57. Transcranial magnetic stimulation studies of cortical excitability in depression. *Society of Biological Psychiatry Annual Meeting*. May, 2000; Chicago IL, USA.
58. Morita therapy in the treatment of somatoform disorders (Symposium). *IX World Congress of Psychiatry*. August, 1999; Hamburg, Germany.
59. The future of psychiatry (Presidential Forum). *IX World Congress of Psychiatry*. August, 1999; Hamburg, Germany.
60. Somatoform disorder in Japan (Symposium). *International Conference in Collaboration with the World Psychiatric Association and World Health Organization: Rethinking Somatoform Disorder*. February, 1998; Tokyo, Japan.

II. Invited Colloquia

1. Hebrew University Multiliteracy Meeting. September 2016. Jerusalem, IL.
2. Westmark School. August 2016, Los Angeles CA, USA.
3. Keynote, Annual Research Lecture. AIM Academy. August 2016, Philadelphia PA, USA
4. Haskins Laboratories Staff Talk. April 2016; New Haven CT, USA
5. Annual Robert J. Schwartz Lecturer. Windward School. April 2016; White Plains NY, USA
6. Florida State University Florida Center for Reading Research. March 2016; Tallahassee FL, USA
7. Chartwell School. March 2016; Seaside CA, USA
8. Creativity Salon. Feb 2016; San Francisco CA, USA
9. Univ Texas Austin Communication Sciences and Disorders Colloquium Series. Jan 2016; Austin TX, USA
10. Univ Texas San Antonio Neurosciences Institute Neurobiology Lecture Series. Jan 2016; San Antonio TX, USA
11. Keynote Speaker. Bay Area Science Seminar. Jan 2016; San Francisco CA, USA
12. Parent Education Network. Dec 2015; San Francisco CA, USA.
13. Chapman University. Oct 2015; Orange CA, USA
14. BCBL (Basque Center for Cognition, Brain and Language) Multiliteracy Meeting. June 2015. San Sebastian, Spain.
15. US Department of Education, Office of Civil Rights (OCR), National webinar. June 2015; San Francisco CA, USA.
16. UCSF Department of Psychiatry, Child and Adolescent Psychiatry, Grand Rounds. May 2015; San Francisco CA, USA.
17. Vanderbilt Kennedy Center Lecture Series on Development and Developmental Disabilities. An integrative approach to dyslexia research: At the intersection of educational & developmental cognitive neurosciences, and practice. February 2015, Nashville TN, USA.
18. UC Berkeley IHD (Inst Human Development) Speaker Series. Intergenerational Imaging of Human Brain Networks. December 2014. Bekrkeley, CA USA.
19. BCBL (Basque Center for Cognition, Brain and Language) External Speaker Series. Intergenerational Imaging of Human Brain Networks. September 2014. San Sebastian, Spain.
20. UCSF Department of Psychiatry Research Retreat. Understanding large-scale networks during development using neuroimaging. May 2014

21. Keio University Department of Psychiatry Seminar. Introduction to research. April 2014
22. Haskins Laboratories, Yale University. Multi-Center Network Meeting. Convergenve and divergence of implicit learning & reading networks in the human brain. April 2014
23. Columbia University Department of Psychiatry Seminar. Translational potential of neuroimaging to practice: taking dyslexia as an example. March 2014
24. UT Houston Health Science Center Department of Psychiatry. Translational potential of neuroimaging to practice: taking dyslexia as an example. January 2014.
25. UCSF Department of Neurosurgery, Chang Lab Meeting. April 2013; SF CA
26. UC Merced Department of Psychology Colloquium Series. Feb 2013; Merced CA
27. UCSF Department of Psychiatry, Child and Adolescent Psychiatry, Grand Rounds. Jan 2013; SF CA
28. UC Davis MIND Institute, Research Seminar Series. Jan 2013; Davis CA
29. Harvard Boston Children's Hospital, Developmental Medicine Center Seminar Series. May 2012; Boston MA
30. UCSF Department of Neurology, Memory and Aging Center, Grand Rounds. April 2012; San Francisco CA
31. Stanford University, Department of Psychology, FriSem. March 2012; Stanford CA
32. UCSF Department of Psychiatry, Neuroscience Seminar. February 2012; San Francisco CA
33. UCSF Department of Psychiatry, Grand Rounds. February 2012; San Francisco CA
34. ABC Preschool. Teacher Training Day. February 2012; San Francisco, CA
35. San Francisco Unified School District. January 2012; San Francisco, CA
36. Stanford University Institute for Computational & Mathematical Engineering Seminar. October 2011; Stanford CA
37. Potential applications of advanced neuroimaging in clinical practice. Keio University School of Medicine. Dept of Neuropsychiatry Seminar Series. October 2011; Tokyo, Japan
38. From Cognitive Neuroscience Research to Educational Practice and Policy: Bridging the Bridge Too Far. Cognitive Science Colloquium. February 2011; Pittsburgh PA
39. From Cognitive Neuroscience Research to Educational Practice and Policy: Bridging the Bridge Too Far. SRI International. March 2011; Menlo Park CA
40. From Cognitive Neuroscience Research to Educational and Clinical Practices: Bridging the Bridges Too Far. University of California San Francisco. April 2011; San Francisco CA
41. From Cognitive Neuroscience Research to Educational and Clinical Practices: Bridging the Bridges Too Far. University of Texas Houston. April 2011; Houston TX
42. Application of Real-Time fMRI Feedback. *Cognitive Science Colloquium*. March 2010; Univ Arizona, Tucson AZ, USA
43. Studying gene-brain-behavior relationships in Williams and fragile X syndromes. Research Seminar Series. *MIND Institute*. October 2009; Sacramento, CA, USA
44. Noninvasive Transcranial Brain Stimulation and Pain. *Dept of Anesthesia, Grand Rounds, Stanford Univ Sch of Med*. December 2008; Palo Alto CA, USA
45. Imaging Genomics: Dissecting Gene-Brain-Behavior Relationships Using Neuroimaging. *Dept of Psychiatry, Kyushu Univ, Sch of Med*. December 2007; Fukuoka Japan

46. Recent Development in Neuroimaging. *Kawano Hospital*. December 2007; Fukuoka Japan
47. Opening Remarks. *Disabilities Awareness Event, Stanford Univ.* November 2007; Palo Alto CA, USA
48. Applications of real-time fMRI. *Plasticity Seminar, Univ California Berkeley*. September 2007; Berkeley CA, USA
49. How can neuroimaging tools enhance clinical and educational practice? *Science Talk, Sackler Institute*. December 2006; NYC NY, USA
50. Predicting reading achievement using behavioral, functional and neuroimaging measures. *Educational Neuroscience Meeting, Stanford University / Sackler Institute*. June 2006; Palo Alto CA, USA
51. Neuroethics of TMS research. *Stanford University Neuroscience Graduate School Program*. February 2006; Palo Alto CA, USA
52. Real-time fMRI: novel technique to study brain and behavior. *Stanford Center for Innovations of Learning*. November 2005; Palo Alto CA, USA
53. Neural basis of reading and dyslexia: A multimodal imaging approach. *Showa University School of Medicine, Dept of Psychiatry*. August 2005; Tokyo, Japan
54. New advances in neuroimaging: From assessment to treatment. *Suuri-no Tsubasa Kaki Seminer (Summer Seminar for Math and Science)*. August 2005; Tokyo, Japan
55. On the relationship between intention and time: Understanding its mechanism through illusions. *Suuri-no Tsubasa Kaki Seminer (Summer Seminar for Math and Science)*. August 2005; Tokyo, Japan
56. Multisensory integration: Understanding its mechanism through illusions. *Suuri-no Tsubasa Kaki Seminer (Summer Seminar for Math and Science)*. August 2005; Tokyo, Japan
57. Neural basis of reading and dyslexia: A multimodal imaging approach. *National Defense Medical College, Dept of Psychiatry*. August 2005; Saitama, Japan
58. Metaphor of 'high' and 'low' pitch revisited: Auditory spatial illusion induced visual motion illusion. *Stanford Univ, Dept of Psychology. Vision Lunch*. March 2005; Palo Alto CA, USA
59. Real-time functional magnetic resonance imaging (rtfMRI). *Symbolic Systems Program Alumni – Special Panel On The Future of Cognitive Neuroscience, Stanford Univ*. May 2004; CA, USA.
60. Functional neuroimaging (fMRI, TMS) contributions to neurology and cognitive neuroscience. *Neurology Grand Rounds - State University of New York, Downstate Medical Center*. May 2004; NY, USA.
61. Basic principle and applications of real-time functional magnetic resonance imaging (fMRI). *Basic Neuroscience Seminar - State University of New York, Downstate Medical Center*. May 2004; NY, USA.
62. Self and sense of agency. *Artcenter College of Design*. February 2003; Pasadena CA, USA.
63. Sensing action, sensing time. *Institute of Psychiatry*. July 2002; London, UK.
64. Neural mechanism of action understanding. *Department of Psychology, Stanford University*. June 2002; Palo Alto CA, USA.
65. Neural mechanism of action understanding. *Unit of Mood and Anxiety Disorders, NIMH*. May 2002; Bethesda MD, USA.
66. Explorations in affective and cognitive neuroscience: Studies of emotion and the mirror neuron system using TMS and fMRI. *Department of Psychology, University of California, Berkeley*. March 2002; Berkeley, CA, USA.
67. Explorations in affective and cognitive neuroscience: Studies of emotion and the mirror neuron system using TMS and fMRI. *Department of Psychiatry, University of California, San Francisco*. March 2002; San Francisco, CA, USA.
68. Action and perception: TMS and fMRI studies of covert and overt actions. *Research Imaging Center, University of Texas Health Science Center at San Antonio*. January 2002; San Antonio TX, USA.
69. TMS and fMRI Studies of the Mirror Neuron System. *General Systems Studies, Department of Multi-Disciplinary Sciences, University of Tokyo*. October 2001; Tokyo, Japan.
70. TMS studies of action observation. *Brain Mapping Center, UCLA*. May 2001; Los Angeles CA, USA.

71. TMS in psychiatry. *Department of Psychiatry, Federal University of Sao Paolo*. February 2001; Sao Paolo, Brazil.
72. TMS in psychiatry. *Department of Psychiatry, Sao Paolo University*. February 2001; Sao Paolo, Brazil.
73. TMS studies of action observation. *Department of Computer Science, University of Southern California*. January 2001; Los Angeles CA, USA.
74. TMS and its use in psychiatry. *Department of Neuropsychiatry, Tokyo Women's Medical College*. December, 2000; Tokyo, Japan.
75. A new tool in neuropsychiatry: Therapeutic and investigational use of transcranial magnetic stimulation. *Brain Mapping Seminar. Ahmanson-Lovelace Brain Mapping Center, UCLA School of Medicine*. September, 2000; CA USA.
76. Theoretical and in vitro measurements of cortical excitability using TMS. *Laboratory for Computational Neural Systems, California Institute of Technology*. April, 2000; Pasadena CA, USA.
77. Safety Issues on TMS. *Department of Neuropsychiatry, Showa Univ. School of Medicine*. April, 2000; Tokyo, Japan.
78. TMS and its use in psychiatry. *Neurophysiology Research Forum, Department of Neuropsychiatry, Keio Univ. School of Medicine*. March, 2000; Tokyo, Japan.
79. TMS and its use in psychiatry. *Yowa Hospital*. March, 2000; Tokyo, Japan.
80. TMS and its use in neuropsychiatric disorders. *Neuropsychiatry Department Grand Rounds, Keio Univ. School of Medicine*. June, 1999; Tokyo, Japan.
81. TMS; basic principles and studies combining neuroimaging. *Radiology & Neuropsychiatry Department, National Institute of Neurology and Mental Health*. June, 1999; Tokyo, Japan.
82. Morita Therapy. *Department of Biological Psychiatry, Columbia University, College of Physicians and Surgeons, New York Psychiatric Institute*. September, 1998; New York NY, USA.
83. Differences between U.K. and Japan and their cultural backgrounds. *Psychology class for undergraduates at Keio Univ. School of Psychology*. May, 1992; Tokyo, Japan.

III. Conference Talks

1. Bridging the synaptic gap: A school/neuroscience partnership for innovation in education. *Annual Meeting of National Association for Independent School (NAIS)*. Feb 2016, San Francisco CA, USA.
2. Dyslexia: Integrating new knowledge into mental health treatment. Socio-emotional aspects of reading disabilities. *Annual Meeting of AACAP*. October 2014, San Diego CA, USA.
3. Latest advances in neurobiological research on learning disabilities and its clinical implications. Reading Disorders (Dyslexia). *Annual Meeting of AACAP*. October 2012, San Francisco CA, USA.
4. Brain morphometric patterns derived from graph analysis and support vector machine algorithms predict children at-risk for developing dyslexia. *Annual Meeting of the Society for Neuroscience*. November 2011, Washington DC, USA.
5. Neural correlates of reading disability: Implications for the use of low achievement, aptitude-achievement discrepancy, and response to intervention (RTI) models to define poor readers. Plenary Session. *Society for Developmental Behavioral Pediatrics (SDBP) Annual Meeting*. October 2009; Portland, OR, USA
6. Neural correlates of low achievement (LA), aptitude-achievement discrepancy (AAD) and response to intervention (RTI) models in poor reading children. *Society for the Scientific Study of Reading Annual Meeting*, June 2009; Boston, MA, USA
7. The mirror neuron system reflects hypersociability in Williams Syndrome. *The 12st International Professional Conference on Williams Syndrome*. July 2008; Garden Grove, CA, USA
8. Inferior frontal activation predicts development of compensatory reading skills in dyslexic adolescents. *American Educational Research Association (AERA)*. March 2008; NYC NY USA

9. Control over patterned brain activation achieved using real time fMRI (rtfMRI) with resultant changes in cognition. *Computational Systems Neuroscience (Cosyne) Conference 2005*. March 2005; Salt Lake City Utah, USA.
10. Learning to explicitly control activation in a localized brain region through real-time fMRI feedback based training, with resulting impact on pain perception. *34th Annual Meeting of the Society for Neuroscience*. October 2004, San Diego, CA USA.
11. Metaphor of 'high' and 'low' in pitch revisited: Visual motion illusion induced by auditory pitch. *International Multisensory Research Forum (IMRF)*. June 2003, Hamilton, Ontario Canada

MEDIA COVERAGE OF RESEARCH

1. ABC-TV: News Report. *New Hope: TMS as a New Treatment for Depression*. Fall, 1999 (Story on TMS as a therapeutic tool in Depression).
2. Wired Magazine. *Let's make your head interactive*. August, 2001. (Story on functional brain landmark project and other projects at UCLA Brain Mapping Center.)
3. Society for Neuroscience Press Conference. *Mind Function: Deception & Intention*. November, 2001. (SFN Poster Presentation in 2001) (Story on fMRI study of intentionality)
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