

# Fumiko Hoeft MD PhD

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urls. [profiles.ucsf.edu/fumiko.hoeft](https://profiles.ucsf.edu/fumiko.hoeft) | [PreCL.org](https://precl.org) | [brainLENS.org](https://brainlens.org) | [dyslexia.ucsf.edu](https://dyslexia.ucsf.edu)

## EDUCATION

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- 2003 Ph.D. in Neuroscience and Neurophysiology  
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan
- 1995 B.Sc. / M.D., Japanese National Board for Medicine Examination and Licensure

## CLINICAL TRAINING

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- 1995 - 2001 Resident, Clinical Fellow, Clinical Neurophysiology Fellow  
Department of Neuropsychiatry, Keio University School of Medicine, Tokyo, Japan
- 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

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

## POSITIONS

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- 2017 - Professor, Psychiatry & Weill Institute for Neurosciences, UCSF, CA USA

- 2017 - Executive Director, California Precision Learning Center (PrecL), CA USA [PrecisionLearningCenter.org]
- 2017 - Deputy Director, Dyslexia Center, UCSF, CA USA [dyslexia.UCSF.edu]
- 2012 - Director, Hoeft Cognitive Neuroscience Laboratory, UCSF, CA USA [brainLENS.org]
- 2012 - Research Scientist, Haskins Laboratories, CT USA [haskins.yale.edu]
- 2011 - Adjunct Faculty, Neuropsychiatry, Keio University School of Medicine, Tokyo Japan [psy.keiomed.jp]
- 2012 - 2017 Associate Professor, Psychiatry & Weill Institute for Neurosciences, UCSF, CA USA
- 2004 - 2013 Visiting Associate Professor (2012-2013), Instructor (2008-2011), Senior Research Scientist (2006-2008), Research Associate (2004-2006), Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, CA USA
- 2008 - 2011 Associate Director, Center for Interdisciplinary Brain Sciences Research (CIBSR), Stanford University School of Medicine, CA USA
- 2003 - 2007 Visiting Scientist, Division of Biology, California Institute of Technology (Caltech), CA USA

## BOARDS

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- 2016 - National Center for Learning Disabilities (NCLD) Professional Advisory Board
- 2015 - International Dyslexia Association (IDA) Board of Directors
- 2012 - UCSF Dyslexia Center Board
- 2012 - Bay Area Discovery Museum, Center for Childhood Creativity Scientific Advisory Board
- 2004 - 2006 World Association for Young Psychiatrists and Trainees (WAYPT) Board Member
- 2002 WAYPT Founding Member

## UNIVERSITY SERVICES

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- 2017 - UCSF Department of Psychiatry, Research & Clinical Annual Retreat Planning Committee
- 2016 - UCSF Department of Psychiatry, Resident Training Program (RTP), Neuroscience Task Force
- 2016 - UCSF Research Allocation and Evaluation Committee (REAC)
- 2013 - UCSF Child and Adolescent Psychiatry Grand Rounds Committee
- 2013 - 2017 UCSF Resource Allocation Program (RAP) Career Development Review Committee
- 2013 - 2016 UCSF Department of Psychiatry, Otswald Lecture Planning Committee
- 2013 - 2015 UCSF Department of Psychiatry, Faculty Council

## GRANT REVIEW PANELS

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- 2013 NIH DP5 Review Panel NH DP5 Review Panel ZRG1 BBBP-E 53 R, March 2013
- 2011 NICHD Learning Disabilities Research Center (LDRC) P50 Grant Review Committee ZHD1 DSR-H (53), July 2011
- 2008 Review Panel, Surgical Sciences, Biomedical Imaging and Bioengineering IRG, NIH USA, December 2008
- 2002 Advisory Panel, Cognitive Neuroscience Program, NSF, June/December 2002.

## EDITORIAL BOARDS

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- 2016 - Psychological Science
- 2015 - Mind Brain and Education Journal (Associate Editor)
- 2014 - New Directions for Child and Adolescent Development (Associate Editor)
- 2014 - American Education Research Association (AERA) Open
- 2009 - 2012 Open Journal of Neuroscience
- 2008 - 2011 Frontiers in Human Neuroscience
- 2007 - 2010 The Open Medical Imaging Journal

## AD HOC REVIEWER

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**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, Front Hum Neurosci, Hum Brain Mapp, Int J Dev Neurosci, Int J Neuropsychopharmacol, Invest Radiol, J Cogn Neurosci, J Exp Psychol Gen, JIDD, J Learn Disabil, J Neurosci, J Psychiatr Res, Lang Cogn Process, Ment Retard Dev Disabil Res Rev, Mind Brain and Educ (MBE), Neurocase, NeuroImage, NeuroImage Clinical, Neuropsychologia, Neurosci Lett, New Directions for Child and Adolesc Develop (NDCAD), Pain Med, PLoS ONE, Proc Natl Acad Sci USA (PNAS), Psychiatric Res, Psychol Sci, Psychophysiology, Scand J Psychol, TOMJ, The Tohoku J Exp Med

**Grants** Cognitive Neuroscience Program, National Science Foundation (NSF)  
 Neurological Foundation of New Zealand  
 Medical Research Council (MRC) of the U.K.  
 National Institute of Health (NIH)  
 Research Allocation Program (RAP), UCSF  
 US – Israel Binational Science Foundation (BSF)

## SPECIAL ISSUES

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- 2016 Current Opinion in Behavioral Sciences “Neuroscience of Education” - Guest Editor with John Gabrieli (MIT) and Denes Szucs (Cambridge University)

2009 Developmental Disabilities Research Review “Cognitive Profiles in Sex Chromosome Disorders” – Guest Editor with Judith Ross (Jefferson University)

## CONFERENCE ORGANIZER

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2017 Post Cognitive Neuroscience Society Annual Meeting Post-Conference Symposium: “Biological and Environmental Factors that Impact Multilingual/Literacy Acquisition”. San Francisco CA, USA - Co-Organizer with Jason Zevin (University of South California) and Roeland Hancock (UCSF). March 2017

2016 The Dyslexia Foundation (TDF) Biennial Research Symposium: “The Geschwind-Galaburda Hypothesis: 30 years later”. St. Croix. US Virgin Island, USA - Co-Organizer with Albert Galaburda (Harvard) and Nadine Gaab (Harvard). June 2016

2015 - TDF Conference for Educators and Parents. San Francisco CA, USA

2014 - Biennial Innovative Learning Conference Organizing Committee. San Francisco CA USA

2014 - Annual Learning and the Brain Conference Sponsor. San Francisco CA, USA

2014 Joint UCSF – Dyslexic Advantage Scientific Symposium: “Dyslexia Beyond Reading: Memory, Cognition, Expertise, and Innovation”. San Francisco CA, USA, Co-Organizer. March 2014

2009 - 2013 Annual Cognitive Neuroscience Society (CNS) Meeting, Poster Committee Member

2003 World Association for Young Psychiatrists and Trainees (WAYPT) Meeting. San Francisco, CA USA, President & Organizer. May 2003

1999 - 2002 XII World Congress of Psychiatry (WCP). Yokohama, Japan, Committee Member for Public Relations. August 2002

1999 - 2002 XII WCP. Yokohama, Japan, Fellowship and Young Participants Committee Member. August 2002

1999 - 2000 TMS Continuing Medical Education (CME) Course Coordinator. Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical School, MA USA

1998 - 1999 XI WCP Committee Member for Young Psychiatrists. Hamburg, Germany. August 1999

1997 - 1998 International Conference in Collaboration with World Psychiatric Association (WPA) and World Health Organization (WHO), Committee Member: “Rethinking Somatoform Disorder”. Tokyo, Japan. February 1998;

## SESSION CHAIR/ORGANIZER

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2017 *Using the Neuroscience of Learning Difficulties to Interpret and Implement 504 Accommodations.* Learning & the Brain Pre-Conference Workshop. San Francisco CA, USA. February 2017

2016 *The Geschwind Lecturer Trio, then, now and the future of the neuroscience of dyslexia.* International Dyslexia Association (IDA) Conference, Preconference Workshop, Orlando FL, USA. October 2016

2013 *Dyslexia Session.* Symposium on L1 Reading Across Different Languages & L2 Literacy Acquisition. Jhongli City Taiwan. May 2013

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

## TEACHING

Those in bold are courses either organized and directed by Hoeft, and/or taught exclusively by Hoeft

- 2016 - 2017 UCSF Child & Adolescent Psychiatry Didactics: Neuroimaging of Psychopathology II, Neuroscience of Language Disorders, UCSF-UC Berkeley CAP, Ped Neurol, DBP, Clinical Psych, Problem Based Learning (PBL) on dyslexia (3x)**
- 2016 *Westmark School, CA USA. Professional Development*
- 2016 *Jefferson School, CA USA. PTA*
- 2015 - 2016 UCSF Child & Adolescent Psychiatry Didactics: Neuroscience of Language, Learning disabilities (3x), Intervention for learning disabilities (2x), 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*
- 2013 *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 **Harvard Medical School, Beth Israel Deaconess Medical Center, Department of Neurology, TMS Continuing Medical Education (CME) Course. (2 weeks, 2x a year)**

## MENTORSHIP

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**Thesis Advisor (12)** Alexander Gantman (PsyD, 2009, Palo Alto University [PAU]), Candy Ho (PsyD, 2010, PAU), Joshua Heitzmann (PhD, 2010, PAU), Nahal Zakerani (PhD, 2011, PAU), Hiroko Tanaka (PhD, 2013, PAU), Leanne Stanley (PhD, 2012, PAU), Brandi Casto (PhD, 2014, PAU), William Raasch (BSc, 2007, Stanford), Emily Dennis (BA, 2008, Whitman), Natalie Tamburello (BA, 2012, Whitman), Paul Gimenez (BA, 2013, UC Berkeley), Priscilla Duong (PhD, 13-, PAU)

**Undergraduate (4)** William Raasch BSc (07), Emily Dennis BA (07-08), Paul Gimenez BA (11-13), Natalie Tamburello BS (11-12)

**Predoctoral (21)** Alexander Gantman PsyD (05-08), Candy Ho PsyD (05-08), Joshua Heitzmann PhD (06-08), Nahal Zakerani PhD (07-10), Hiroko Tanaka MS (07-12), Leanne Stanley PhD (08-11), Stuart Red (08), 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), Adi Zief MS (11), Emily Kutner PhD (11-14), Mandeep Tumber PhD (11-13), Brandi Casto PhD (11-15), Tracy Thompson PhD (11), Petra Ludowicy BSc (15), Zhichao Xia (14-16), Priscilla Duong (13-)

**Postdoctoral (15)** Kaori Koshiishi MD PhD (05-06), Lisa Sugiura PhD (06-07), Nobuhisa Kobayashi MD PhD (06-07), Joshua Heitzmann PhD (06-08), Masanori Nagamine MD PhD (08-09), Bun Yamagata MD PhD (10-12), Emily A Farris PhD (12-13), Smadar Patael PhD (13-14), Cheng Wang PhD (14-16), Janosch Linkersdoerfer PhD (14), Naoki Hashimoto MD PhD (14-15), Vanessa Singh PhD (14), Maaike Vandermosten PhD (15), Roeland Hancock PhD (13-17), Myriam Oliver (16-)

## OTHER PANELS, COMMITTEES & SERVICES

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2017 - Learning and the Brain Foundation, Transforming Education through Neuroscience Award Selection Committee

2014 - International Dyslexia Association's online newsletter Examiner's regular quarterly contributor to recent news in neuroscience

- 2016 - 2017 California Department of Education, Dyslexia State Guideline (AB1369) Work Group. Sacramento, CA USA
- 2016 NIH Workshop: Language and Literacy Development in Early Dual Language Learners. Rockville, Maryland USA. August 2016.
- 2015 - 2016 Synapse School Neuroscientist in Residence, Mountain View CA USA
- 2015 UNESCO UNITWIN Network on Inclusive Literacy for All. Paris, France. May 2015-
- 2015 White House OSTP workshop on Neuroscience of Learning. Washington, DC USA. Jan 2015
- 2012 NIH Forward Focus Workshop: Strategic Planning for the Common Fund, San Francisco, CA USA. May 2012
- 2011 DoD Cognitive Neuroscience of Second Language Acquisition Meeting. Washington, DC USA. November 2011
- 2011 NICHD's Scientific Vision Meeting, Finale. Maryland, DC USA. June 2011
- 2011 NICHD's Scientific Vision Meeting, Behavior Workshop Organizing Group. Washington, DC USA. February 2011
- 1999 - 2001 Chief Translator, Journal Watch Psychiatry, New England Journal of Medicine
- 1995 - 2000 Translator, www.Medscape.com

## AWARD & HONORS

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- 2016 Multicampus Research Programs & Initiatives (MRPI) Award, University of CA Office of the President (UCOP)
- 2016 Rising Start Award, One Mind Institute - Finalist
- 2015 Remarks 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
- 2014 Norman Geschwind Memorial Lecturer, Int'l Dyslexia Association Annual Meeting
- 2012 NIH DP2 New Innovator Award - Finalist
- 2008 Stanford Postdoctoral Mentor Award - Honorary Mention
- 2008 Spectrum Child Health & Clinical & Translational Science Award, Lucile Packard Foundation for Children's Health
- 2008 Young Investigator Award, Brain & Behavior Research Foundation (BBRF)
- 2008 NIH K23 Career Award
- 2007 Spectrum Child Health & Clinical & Translational Science Award, Lucile Packard Foundation for Children's Health
- 2005 Tom Slick Research Award in Consciousness, Mind Science Foundation
- 2004 Early Career Award for Outstanding Contribution to Research [Japan Society for Psychiatry and Neurology] - Declined

- 2002 Award for Outstanding Contribution, XII World Congress of Psychiatry (WCP)
- 2001 Trainee Award, Annual Meeting for the Organization of Human Brain Mapping (OHBM)
- 2000 Fellowship Award, Annual Meeting for Biological Psychiatry
- 2000 Best Poster Award, IV<sup>th</sup> Annual Meeting for the International Society for Transcranial Stimulation (ISTS)
- 1998 Young Investigator Award, Japan North America Medical Exchange Fndtn (JANAMEF)
- 1998 Young Investigator Award, Yoshida Science Promotion Foundation
- 1998 Young Investigator Award, Cellular Science Research Foundation
- 1994 Summer Fellowship Award, Keio University School of Medicine & Mayo Clinic

## PROFESSIONAL MEMBERSHIPS

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- 2010 - International Dyslexia Association (IDA)
- 2007 - Society for the Scientific Study of Reading (SSSR)
- 2001 - Organization for Human Brain Mapping (OHBM)
- 2001 - Society for Neuroscience (SNF)
- 2001 - Cognitive Neuroscience Society (CNS)
- 2014 - 2016 American Association for the Advancement of Sciences (AAAS)
- 2012 - 2014 American Academy of Child & Adolescent Psychiatry (AACAP)
- 2010 - 2014 International Mind Brain and Education (IMBES)
- 2009 - 2014 Association for Psychological Sciences (APS)
- 2007 - 2008 American Educational Research Association (AERA)
- 2003 - 2004 International Multisensory Research Forum (IMRF)

## TOOLS DEVELOPED

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- 2007 MVPA (Multivariate Pattern Analysis) Toolbox: Includes supervised and unsupervised approaches
- 2010 GAT (Graph Analytical Toolbox) with Hadi Hosseini PhD (Stanford U) & Shelli Kesler PhD (Univ Texas Health Sci Center in Houston)

## GRANTS

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### **PENDING**

NIH P50HD (PI Florida State U/Wagner)  
The Florida Learning Disabilities Research Center

07/01/2017 – 06/30/2019



The goal of this proposal is to develop multivariate models of various reading-related learning disabilities including neurobiological information.

**Role: Co-I, PI of UCSF subcontract**

NIH P50HD (PI Georgia State U/Morris)

08/01/2017 – 07/31/2022

Reading Disabilities Research Network

The goal of the proposal is to provide state-of-the-art imaging and genetic resources for the LDRN, which is to examine the neurobiological bases of treatment resistance in typical literacy-based LD as well as those in three understudied and underserved populations with learning challenges – adults, children with low cognitive functioning, and minority children living in poverty, and their interplay with environmental factors, including literacy interventions.

**Role: Core PI**

NIH R01HD (PI Haskins Rueckl)

04/01/2018 – 03/31/2023

Neurocognitive mechanisms underlying plasticity in reading disabled adults.

Goal: To develop a coherent mechanistic account of the neurobiological basis of learning difficulties *and of latent capabilities* for print learning in adult RD by using behavioral and neuroimaging measures of reading, statistical learning and language learning paradigms.

**Role: Co-I, PI of UCSF subcontract**

NIH R01HD115089 (Multi-PIs Hoeft/Stanford Gotlib)

09/01/2017 – 08/31/2022

Intergenerational neuroimaging of the human corticolimbic circuitry using a natural cross-fostering design

To dissociate the genetic, prenatal and postnatal experience on sex-specific transmission patterns of corticolimbic circuitry and related cognitive processes.

**Role: PI**

NIH R01HD (Multi-PIs Hoeft/UConn Hancock)

04/01/2018 – 03/31/2023

Intergenerational neuroimaging of language and reading networks using a natural cross-fostering design

To dissociate the genetic, prenatal and postnatal experience on sex-specific transmission patterns of language and reading endophenotypes.

**Role: PI**

UCSF Trailblazer (PI Hoeft)

08/01/2017 – 06/31/2018

Intergenerational neuroimaging of the human corticolimbic circuitry using a natural cross-fostering design

A pilot study to dissociate the genetic, prenatal and postnatal experience on sex-specific transmission patterns of corticolimbic circuitry and related cognitive processes.

**Role: PI**

UCSF RAP (PI Huddleston)

08/01/2017 – 06/31/2018

Polycystic Ovary Syndrome (PCOS)

To perform a pilot study that examines the behavioral correlate of insulin resistance and obesity on executive function.

**Role: Co-I**

## **ACTIVE**

UCOP MRP-17-454926 (PI Hoeft)

01/01/2017 – 12/31/2019

UCOP MRP = UC Office of the President Multicampus Research Program & Initiatives Award 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.

**Role: PI**

Oak Foundation ORIO-16-012 (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.

**Role: PI**

NIH R01HD086168 (Multi-PIs Haskins Pugh/Hoeft) 08/01/2016 – 06/30/2021

Neurochemistry as a moderator of brain networks for reading

Goal: To test the neural noise hypothesis of dyslexia by examining relationships between neurochemistry, neural oscillation, functional activation, and functional connectivity and how these may predict individual differences in reading skills in children/

**Role: PI**

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.

**Role: PI**

NSF 1540854 SL-CN (PI UCSF/Gazzaley) 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.

**Role: Co-PI**

NIH R01MH103371 (PI UC Davis/Amaral) 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.

**Role: Co-I, PI of UCSF subcontract**

NIH R01MH104438 (PI UC Davis/Nordahl) 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.

**Role: Co-I, PI of UCSF subcontract**

NIH R15HD086662 (PI U Denver/McGrath) 09/22/2016 – 09/21/2019

Cognitive and neural predictors of comorbidity between reading and attention problems

Goal: This proposal adopts a multiple deficit framework to identify cognitive and neural predictors of the relationship (or covariance) between RD and ADHD, rather than the more common approach of predicting the individual disorders using two large population-based pediatric datasets of children 6-18 years.

**Role: Consultant**

NIH R01HD090153 (PI Haskins/Pugh) 07/01/2017 – 06/30/2022

Tracking neuro-cognitive changes during evidence-based reading instruction in typically and atypically developing children

Goal: To examine the neurocognitive bases of treatment response to a well-established evidence-based treatment program using MRI and functional near infrared spectroscopy (fNIRS).

**Role: Consultant**

BBRF Young Investigator Award (PI Keio U/Yamagata) 01/01/2017 – 12/31/2018

BBRF = Brain and Behavioral Research Foundation

Female-specific intergenerational transmission patterns of the human corticolimbic circuitry in depression

Goal: To investigate correlation in resting-state connectivity in depressed mothers and their female/male offspring

**Role: Mentor**

BBRF Young Investigator Award (PI UCSF/Wang) 01/01/2017 – 12/31/2018

BBRF = Brain and Behavioral Research Foundation

Preliminary investigation of the corticolimbic circuitry using a natural human cross-fostering design and resting-state fMRI

Goal: To compare correlation in resting-state fMRI connectivity between mother-daughter dyads in three groups of In Vitro Fertilization (IVF) families

**Role: Mentor**

## PAST

NIH P01HD001994 (PI Haskins/Rueckl) 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.

**Role: Co-I, PI of UCSF subcontract**

NIH R01HD065794 (PI Haskins/Pugh) 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.

**Role: Co-I, PI of UCSF subcontract**

NIH R01HD044073 (PI Vanderbilt/Cutting) 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.

**Role: Co-I, PI of UCSF subcontract**

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.

**Role: PI**

Stanford Cntr for Cogn & Neurobio Imaging Pilot Grant (PI: Hong) 09/01/2014 – 08/31/2015

Neurochemical correlates of auditory processing and reading ability

**Role: Co-I**

UCSF Radiology Seed Funds (PI: Nagarajan) 09/01/2014 – 08/31/2015

Individual neurometabolite variability and auditory frequency tuning.

**Role: Co-I**

UCSF Catalyst Award (PI Hancock) 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.

**Role: Co-PI & Mentor**

UCSF RAP Digital Health Research (PI Hancock)

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.

**Role: Co-I & Mentor**

NIH RO1 HD067312 (PI Gabrieli/Gaab)

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

**Role: Consultant**

P23916, FWF Austrian Science Fund (PI Kronbichler)

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.

**Role: Consultant**

32003B\_141201 Swiss National Science Foundation (SNSF) (PI Brem)

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.

**Role: Consultant**

NIH R01HD067254 (PI Vanderbilt/Cutting)

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.

**Role: Co-I, PI of UCSF subcontract**

NIH K23HD054720 (PI Hoeft)

08/11/2008 – 07/31/2013

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

**Role: PI**

NARSAD Young Investigator Award (PI Hoeft)

08/01/2008 – 07/31/2011

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.

**Role: PI**

CHRP (Child Health Research Program (PI Hoeft)

07/01/2008 – 12/31/2010

aka: Lucile Packard Foundation for Children's Health, Spectrum Child Health & Clinical and Translational Science Award

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.

**Role: PI**

- NIH 1S10RR024657-01 Instrumentation Grant (PI Reiss) 2007  
NIRS Optical Topography System– HITACHI ETG-4000  
Goal: To purchase an NIRS system to perform translational research.  
**Role: Co-Investigator (Co-wrote and executed grant)**
- CHRP (Child Health Research Program) (PI Hoeft) 04/01/2007 – 03/31/2009  
Aka: Lucile Packard Foundation for Children’s Health, Spectrum Child Health & Clinical and Translational Science Award  
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.  
**Role: PI**
- NIH R01 MH50047 (PI Reiss) 05/01/1993 – 06/30/2012  
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.  
**Role: Co-Investigator (Neuroimaging Lead)**
- NIH/NINDS R44NS050642 (PIs deCharms, Gabrieli) 06/01/2004 – 07/31/2007  
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.  
**Role: Co-Investigator (Co-wrote grant & Neuroimaging Lead)**
- NIH/NIDA N44DA (PIs deCharms, Gabrieli) 06/01/2005 – 05/31/2007  
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.  
**Role: Co-Investigator (Co-wrote grant & Neuroimaging Lead)**
- Mind Science Foundation (PI Hoeft, Co-PI/Mentor Reiss) 11/01/2005 – 10/31/2006  
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.  
**Role: PI**
- NSF BCS 0305376 (PIs Shimojo, Gabrieli) 07/01/2003 – 06/30/2006  
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.  
**Role: Co-Investigator (Wrote and lead grant)**
- NIH/NIDA N43DA-4-7748 (PIs deCharms, Gabrieli) 06/01/2004 – 05/31/2005  
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.

### **Role: Co-Investigator (Co-wrote grant & Neuroimaging Lead)**

Japan North America Medical Exchange Foundation (JANAMEF) Fellowship <b>Role: PI</b>	1998 – 1999
Cellular Science Research Foundation (fellowship) <b>Role: PI</b>	1998 – 1999
Yoshida Science Promotion Foundation (fellowship) <b>Role: PI</b>	1998 – 1999
Keio University School of Medicine & Mayo Clinic (student fellowship) <b>Role: PI</b>	1994

### **Others / Donation to Hoeft**

UCSF Dyslexia Center <u>iSreener App</u> Goal: To develop apps that can be used to phenotype dyslexia.	04/01/2013 –
UCSF Deans Account Startup Fund	01/01/2012 –
Currey Ingram Academy	2017
Holy Names University and Raskob School	2017
The Windward School	2016
AIM Academy	2016
The Potter Family	2016, 2017
Dennis & Shannon Wong DSEA 88 Wong Family Fndtn (PI Hoeft)	2015
Bay Area Discovery Museum <u>UCSF-CCC Neuroscience Fellowship</u> Goal: To perform community outreach and neuroscience research with the BADM's Center for Childhood Creativity.	10/15 2014 – 10/14 2016
Anonymous private donor	06/01/2012 – 05/31/2014

### **PEER-REVIEWED PUBLICATIONS (101 total published, 10 in submission)**

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102 peer-reviewed pubs published, of which 28 1<sup>st</sup> authored, 31 senior authored (\* are those not in pubmed)

#### **IN REVISION & SUBMISSION**

1. Malins JG, Buis B, Kurian A, Staples R, Sevcik R, Molfese P, Mencl WE, Landi N, **Hoeft F**, Frost SJ, Pugh JR, Morris R. Individual Differences in Reading Skill are Related to Trial-by-Trial Neural Activation Variability in the Reading Network: Evidence from Two Pediatric Samples. ***J Neurosci*** (in revision)
2. Black JM, Xia Z, **Hoeft F**. Neurobiological bases of reading disability Part II: Developmental aspects of neural impairments. ***Lang Linguist Compass*** (in revision)
3. Patael S, Farris EA, Black JM, Hancock R, Gabrieli JDE, Cutting L, **Hoeft F**. Prefrontal cortex buffers against poor reading comprehension in children with dyslexia. ***PLoS ONE*** (in revision)

4. Haft S, **Hoef F**. The impact of poverty on child executive functions: global considerations and mediators. (Invited submission for a special issue in ***New Directions for Child and Adolesc Develop [NDCAD]***)
5. Xia Z, Wang C, Vandermosten M, Hancock R, **Hoef F**. Advanced Paternal Age (APA) Effects on Offspring Academic Ability: The Role of Thalamic Maturation Links APA and Reading.
6. Hancock R, Nagarajan S, **Hoef F**. GABA is associated with temporal auditory processing and neural synchronization.
7. Hancock R, Nagarajan S, **Hoef F**. Neurochemistry of multiplexed speech processing.
8. Kumar S, **Hoef F**, Hancock R. Asymmetric associations between GABA and intrinsic auditory network activity.
9. Hashimoto N, Hancock R, **Hoef F**. Maternal cerebellar grey matter volume is associated with daughters' psychotic experience.
10. Hashimoto N, Hancock R, **Hoef F**. Intergenerational transmission of resting state reading networks.

#### **PUBLISHED**

1. Xia Z, Zhang L, **Hoef F**, Gu B, Gong G, Shu H. Neural Correlates of Oral Word Reading, Silent Reading Comprehension, and Cognitive Subcomponents. ***Int J Behav Develop*** (in press).
2. Hancock R, Pugh K, **Hoef F**. The neural noise hypothesis of developmental dyslexia. ***Trends Cogn Sci (TiCS)*** 2017 Apr 8. pii: S1364-6613(17)30051-7. doi: 10.1016/j.tics.2017.03.008. [Epub ahead of print] PMID: 28400089
3. Xia Z, Hancock R, **Hoef F**. Neurobiological bases of reading disorder Part I: Etiological investigations. ***Lang Linguist Compass*** 2017;11:e12239. doi: [10.1111/lnc3.12239](https://doi.org/10.1111/lnc3.12239)
4. Hancock R, Richlan F, **Hoef F**. Possible roles for frontostriatal circuits in reading disorder. ***Neurobio Beh Rev*** 2017 Jan;72:243-260. doi: 10.1016/j.neubiorev.2016.10.025 PMID: 27826071. PMCID: PMC5189679
5. Ho TC, Sanders SJ, Gotlib IH, **Hoef F**. Intergenerational Neuroimaging of Human Brain Circuitry. ***Trends Neuroscience (TiNS)***. 2016 Oct;39(10):644-648. Epub 2016 Sep 9. PMID: 27623194. PMCID: PMC5067069.
6. Hancock R, Gabrieli JDE, **Hoef F**. Shared temporoparietal dysfunction in dyslexia and typical readers with discrepantly high IQ. ***Trends Neurosci Educ***. 2016 Dec;5(4):173-177. Epub 2016 Nov 3. PMID: 28439565; PMCID: PMC5400289
7. Szűcs D, **Hoef D**. Editorial overview: Neuroscience of education. ***Curr Opin Behav Sci*** 2016 Aug;10:iv-vi.
8. 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. Epub 2016 Jun 17. PMID:27747263; PMCID: PMC5058360
9. 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. PMID: 27458603; PMCID: PMC4957935

10. Bailey S, **Hoef F**, Aboud K, Cutting L. Anomalous gray matter patterns in specific reading comprehension deficit are independent of dyslexia. *Ann Dyslexia* 2016 Oct;66(3):256-274. Epub 2016 Jun 20. PMID: 27324343; PMCID: PMC5061587
11. 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 Oct;11(10):1521-7. Epub 2016 May 11. PMID: 27217105; PMCID: PMC5040906
12. 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
13. Yamagata B, Black JM, Gimenez P, Mimura M, Yang TT, Reiss AL, **Hoef F**. Sex-specific intergenerational transmission patterns in the human corticolimbic system. *J Neurosci* 2016 Jan;36(4):1254-60. doi: 10.1523/JNEUROSCI.4974-14.2016. PMID: 26818513; PMCID: PMC4728726. Press release: UCSF; Covered by: Scientific American
14. 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
15. Rueckl JG, Paz-Alonso PM, Molfese PJ, Kuod W-J, Bick A, Frost SJ, Hancock R, Wu DH, Mencl WE, Duñabeitia JA, Lee J-R, Oliver M, Zevin JD, **Hoef F**, Carreiras M, Tzeng OJ-L, Pugh KR, Frost R. A universal brain signature of proficient reading: Evidence from four contrasting languages. *Proc Natl Acad Sci U S A* 2015 Dec 15;112(50):15510-5. doi: 10.1073/pnas.1509321112. Epub 2015 Nov 30. PMID: 26621710; PMCID: PMC4687557
16. Preston JL, Molfese PJ, Frost SJ, Mencl WE, Fulbright RK, **Hoef F**, Landi N, Shankweiler D, Pugh KR. Print-speech convergence predicts future reading outcomes in early readers. *Psychol Sci*. 2016 Jan;27(1):75-84. doi: 10.1177/0956797615611921. Epub 2015 Nov 20. PMID: 26589242; PMCID: PMC4713346
17. Achal S, **Hoef F\*\***, and Bray S\*\*. Individual Differences in Adult Reading Are Associated with Left Temporo-parietal to Dorsal Striatal Functional Connectivity. *Cereb Cortex*. 2015 Sep 22. pii: bhv214. [Epub ahead of print] PMID: 26400921. \*\*Shared corresponding author.
18. Black JM, Myers CA, **Hoef F**. The utility of neuroimaging studies for informing educational practice and policy in reading disorders. *New Dir Child Adolesc Dev* 2015 Mar;2015(147):49-56. doi: 10.1002/cad.20086. Review. PMID: 25732015. PMCID: PMC4371735
19. Black JM, **Hoef F**. Utilizing biopsychosocial and strengths-based approaches within the field of child health: what we know and where we can grow. *New Dir Child Adolesc Dev* 2015 Mar;2015(147):13-20. doi: 10.1002/cad.20089. Review. PMID: 25732011. PMCID: PMC4367185
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21. **Hoef F**, Dai L, Haas BW, Sheau K, Mimura M, Mills D, Galaburda A, Bellugi U, Korenberg JR, Reiss AL. Mapping genetically controlled neural circuits of social behavior and visuo-motor integration by a preliminary examination of atypical deletions with Williams syndrome. *PLoS One*



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22. Diehl JJ, Frost SJ, Sherman G, Mencl WE, Kurian A, Molfese P, Landi N, Preston J, Soldan A, Fulbright RK, Rueckl JG, Seidenberg MS, **Hoef F**, Pugh KR. Neural correlates of language and non-language visuospatial processing in adolescents with reading disability. *Neuroimage* 2014 Nov 1;101:653-66. doi: 10.1016/j.neuroimage.2014.07.029. Epub 2014 Jul 24. PMID: 25067812; PMCID: PMC4167780
23. LeWinn KZ, Connolly CG, Wu J, Drahos M, **Hoef F**, Ho TC, Simmons AN, Yang TT. White matter correlates of adolescent depression: structural evidence for frontolimbic disconnectivity. *J Am Acad Child Adolesc Psychiatry* 2014 Aug;53(8):899-909, 909.e1-7. doi: 10.1016/j.jaac.2014.04.021. Epub 2014 Jun 4. PMID: 25062597; PMCID: PMC4112055
24. \*\*Norton ES, \*\*Black JM, Stanley LM, Tanaka H, Gabrieli JD, Sawyer C, **Hoef F**. Functional neuroanatomical evidence for the double-deficit hypothesis of developmental dyslexia. *Neuropsychologia* 2014 Aug;61:235-46. doi: 10.1016/j.neuropsychologia.2014.06.015. Epub 2014 Jun 20. PMID: 24953957; PMCID: PMC4339699. \*\*Shared 1<sup>st</sup> author.
25. Gimenez P, Bugescu N, Black JM, Hancock R, Pugh K, Nagamine M, Kutner E, Mazaika P, Hendren R, McCandliss BD, **Hoef F**. Neuroimaging correlates of handwriting quality as children learn to read and write. *Front Hum Neurosci* 2014 Mar 19;8:155. doi: 10.3389/fnhum.2014.00155. eCollection 2014. PMID: 24678293; PMCID: PMC3958698
26. Pugh KR, Frost SJ, Rothman DL, **Hoef F**, Del Tufo SN, Mason GF, Molfese PJ, Mencl WE, Grigorenko EL, Landi N, Preston JL, Jacobsen L, Seidenberg MS, Fulbright RK. Glutamate and choline levels predict individual differences in reading ability in emergent readers. *J Neurosci* 2014 Mar 12;34(11):4082-9. doi: 10.1523/JNEUROSCI.3907-13.2014. PMID: 24623786; PMCID: PMC3951703 Press release: Yale, NICHD
27. Hong DS, **Hoef F**, Marzelli MJ, Lepage JF, Roeltgen D, Ross J, Reiss AL. Influence of the X-chromosome on neuroanatomy: evidence from Turner and Klinefelter syndromes. *J Neurosci* 2014 Mar 5;34(10):3509-16. doi: 10.1523/JNEUROSCI.2790-13.2014. PMID: 24599451; PMCID: PMC3942570
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29. Preston JL, Molfese PJ, Mencl WE, Frost SJ, **Hoef F**, Fulbright RK, Landi N, Grigorenko EL, Seki A, Felsenfeld S, Pugh KR. Structural brain differences in school-age children with residual speech sound errors. *Brain Lang* 2014 Jan;128(1):25-33. doi: 10.1016/j.bandl.2013.11.001. Epub 2013 Dec 15. PMID: 24342151; PMCID: PMC3926206
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32. Connolly, Wu J, Ho TC, **Hoef F**, Wolkowitz O, Eisendrath S, Frank G, Hendren R, Max JE, Paulus MP, Tapert SF, Banerjee D, Simmons AN, Yang TT. Resting-state functional connectivity of subgenual anterior cingulate cortex in depressed adolescents. *Biol Psychiatry* 2013 Dec 15;74(12):898-907. doi: 10.1016/j.biopsych.2013.05.036. Epub 2013 Jul 30. PMID: 23910949; PMCID: PMC4103629
33. Kesler SR, Wefel JS, Hosseini SM, Cheung M, Watson CL, **Hoef F**. Default mode network connectivity distinguishes chemotherapy-treated breast cancer survivors from controls. *Proc Natl Acad Sci U S A* 2013 Jul 9;110(28):11600-5. doi: 10.1073/pnas.1214551110. Epub 2013 Jun 24. PMID: 23798392; PMCID: PMC3710809
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36. Hong DS, Bray S, Haas BW, **Hoef F**, Reiss AL. Aberrant neurocognitive processing of fear in young girls with Turner syndrome. *Soc Cogn Affect Neurosci* 2014 Mar;9(3):255-64. doi: 10.1093/scan/nss133. Epub 2012 Nov 21. PMID: 23171616; PMCID: PMC3980805
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77. **Maeda, F.** Ethical and training issues in biological psychiatry. *Proceedings of XII World Congress of Psychiatry.* 2002.
78. **Maeda, F.** New biological treatments in psychiatry. *Proceedings of XII World Congress of Psychiatry.* 2002.
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95. **Maeda, F.**, Topka, H., Keenan, J.P. and Pascual-Leone, A. Effects of cerebellar output on intracortical motor cortex excitability studied by transcranial magnetic stimulation. *Ann Neurol* 2000; 48: 475.
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104. **Maeda, F.**, Keenan, J., Sampson, S., Birnbaum, R. and Pascual-Leone, A. Transcranial magnetic stimulation in major depression: Pathophysiological studies and therapeutic applications. *Proceedings of the American Clinical Neurophysiology Society Annual Meeting*. 1999; 57.
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106. Kiriakopoulous, E., Warde, A., Hamilton, R., **Maeda, F.**, Kauffman, T., Keenan, J.P. and Pascual-Leone, A. From sight to touch in five days: Visual deprivation and tactile training unmask tactile input into visual cortex in normal human subjects. *Proceedings of Research Day at the Beth Israel Deaconess Medical Center, Harvard Medical School*. 1999; N6.
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108. **Maeda, F.** Morita therapy in the treatment of somatoform disorders. *Proceedings of IX World Congress of Psychiatry*. 1999.
109. **Maeda, F.**, Shirahase, J. and Asai, M. Taijin kyofusho as one aspect of somatoform disorders in Japan. *Keio J Med*. 1998; 47: S19.
110. Yoshimura, K., Nakamura, K., **Maeda, F.**, Saito, N., Sazakume, H., Ishii, R., Araki, N. and Ono, Y. The economic aspects of somatoform disorders. *Keio J Med*. 1998; 47: S26

#### TRANSLATIONS (7 total)

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1. *DSM-IV<sup>TR</sup>* (Japanese). Takahashi, S., Ono, Y., Someya, T., ed. Igaku-shoin, 2002.
  2. *DSM-IV<sup>TR</sup> Quick Reference* (Japanese). Takahashi, S., Ono, Y., Someya, T., ed. Igaku-shoin, 2002.
  3. *New England Journal of Medicine, Journal Watch Psychiatry*, April 1999 – December 2001
  4. *Stedman's Medical Dictionary* (Japanese 4<sup>th</sup>). Takaku F, ed. Tokyo: Medical View, 1997.
  5. *Stedman's Medical Dictionary* (Nurse edition) (Japanese 1<sup>st</sup> edition). Takaku F, ed. Tokyo: Medical View, 1998.
  6. *Stedman's Medical Dictionary* (CD-ROM) (Japanese 1<sup>st</sup> edition). Takaku F, ed. Tokyo: Medical View, 1998.

7. *Medscape*, July 2000.

#### INVITED CONFERENCE TALKS (68 total)

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1. Neuroscience and Education Symposium: The Connection (The Currey Ingram Academy & Vanderbilt University). June 2017; Brentwood TN, USA.
2. International Workshop on Brain, Language and Cognition. May 2017; Nanjing, China.
3. International Society for Brain and Education & Grand opening of the Center for Brain and Education, Hong Kong Education University. May 2017; Hong Kong.
4. The Dyslexia Foundation Symposium. Literacy, Dyslexia and Legislative Initiatives. Mar 2017; Palm Springs CA, USA.
5. Oak Foundation Conference on Learning Disabilities. Mar 2017; NC, USA.
6. Learning and the Brain Conference Preconference Workshop. Using the Neuroscience of Learning Difficulties to Interpret and Implement 504 Accommodations. Feb 2017; SF CA, USA.
7. The Israel Science Foundation & Hebrew University. First vs. Second Language Learning from Neurobiology to Cognition. Sept 2016; Jerusalem Israel.
8. Chapman University. Cognitive Diversity Summit. Oct 2016; Irvine CA, USA.
9. International Dyslexia Association (IDA) Preconference Workshop (W3) The Geschwind Lecturer Trio: Then, Now and the Future of the Neuroscience of Dyslexia. October 2016; Orlando FL, USA.
10. The Help Group Summit. Advances and Best Practices in Autism, Learning Disabilities and ADHD. October 2016; Los Angeles CA, USA.
11. TEDxSausalito. Why Creativity? September 2016; Sausalito CA, USA.
12. Eye To Eye 2016 Partners Day. Brown University. August 2016; Providence RI, USA.
13. The Dyslexia Foundation Symposium “Geschwind-Galaburda Hypothesis – 30 years later”. June 2016; St. Croix US Virgin Islands, USA.
14. Association for Psychological Sciences. Educational Neuroscience Symposium. May 2016; Chicago IL, USA.
15. xTech (3<sup>rd</sup> Annual Experiential Technology & NeuroGaming Conference and Expo). May 2016; San Francisco CA, USA.
16. Keynote speaker for Research and Public Forums: iWORDD (International Workshop on Reading and Developmental Dyslexia). May 2016; Bilbao, Spain.
17. Keynote speaker: University of Connecticut Language Fest. April 2016, Storrs CA, USA.
18. Learning and the Brain Conference. Feb 2016, San Francisco CA, USA.
19. Haskins Yale Global Health Summit 2015, Dissociating factors that impact literacy acquisition. Dec 2015, New Haven CT, USA.
20. Keynote speaker & Award winner: Learning and the Brain Conference. Nov 2015, Boston MA, USA.
21. Speaker. Innovative Learning Conference 2015, Oct 2015, Hillsborough CA, USA.

22. Workshop. EdRev 2015. April 2015, AT&T Park, SF CA, USA.
23. Creativity Talks speaker: Bay Area Discovery Museum, Center for Childhood Creativity. March 2015, Sausalito CA, USA.
24. 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.
25. 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.
26. AACAP Clinical Perspectives "Dyslexia: Integrating New Knowledge into Mental Health Treatment. Socio-emotional aspects of reading disabilities. October 2014. San Diego, CA USA.
27. 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.
28. Workshop speaker: Cognitive Neuroscience Summer Institute. Multivariate Pattern Analysis. September 2014, Salzburg, Austria.
29. Keynote speaker: Cognitive Neuroscience Summer Institute. Translational Potential of Neuroimaging. September 2014, Salzburg, Austria.
30. Multimodal Neuroimaging Training Program (MNTP). U Pittsburgh / Carnegie Mellon Univ. Translational Potential of Neuroimaging. June 2014, Pittsburgh PA, USA.
31. 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.
32. 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.
33. 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.
34. 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.
35. 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.
36. Dissecting the neurobiological correlates of dyslexia & reading through a clinical lens. Hong Kong University Symposium. July 2013, Hong Kong.
37. 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.
38. 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.

39. Neuroimaging predictors of reading outcome. Oxford-Kobe Meeting. April 2013, Oxford UK.
40. Neuroimaging evidence of stealth dyslexia & visuo-spatial abilities in dyslexia. Dyslexia & Talent Conference. April 2013, Norwalk CT, USA.
41. Alan Alda talks with the experts: Discussions on dyslexia. *Millbrook NY*. April 2013, Millbrook NY, USA.
42. Neurobiological basis of twice exceptionality. *Learning & the Brain Conference on Creativity*. February 2013, San Francisco CA, USA.
43. Multivariate Pattern analysis (MVPA) in neuroimaging. *2012 MNC Summer Institute: Social Developmental Neuroscience*. June 2012; Baltimore MD, USA
44. Keynote speaker: Neuroprognosis: Predicting academic achievement and outcome of a disorder using neuroimaging. *EARLI Sig 22*. May 2012; London UK
45. Disentangling controversial theories of reading and dyslexia using neuroimaging. GraphoWORLD Summer School. September 2011; Jyväskylä, Finland
46. Considering the future role of brain imaging in predicting academic achievement. *International Mind, Brain and Education Society 3<sup>rd</sup> Biennial Conference*. June 2011; San Diego CA, USA
47. Keynote speaker: Neuroprognosis: Predicting reading outcome in children using neuroimaging. *EARLI Sig 22, Satellite Symposium: Educational Neuroscience and Dyslexia Symposium*. June 2010; Zurich Switzerland
48. Prediction of children's reading skills: Understanding the interplay among genes, environment, brain, and behavior. *The 12<sup>th</sup> Extraordinary Brain Symposium hosted by The Dyslexia Foundation*. June 2010; Ashford Ireland
49. Neuroprognosis: Predicting children's reading skills using brain scans. *Learning and the Brain*. February 2010; San Francisco, CA, USA
50. Brain basis of learning disabilities, giftedness and creativity. *Gifted Learning Conference*. October 2009; Hillsborough, CA, USA
51. Keynote Speaker: Genetics and social cognition in Williams and fragile X syndromes. *Annual Meeting of the Neuropsychology Association of Japan*. September 2009; Tokyo, Japan
52. Application of real-time fMRI. *Annual Meeting of the Neuropsychology Association of Japan*. September 2009; Tokyo, Japan
53. The use of multivariate pattern classification in clinical developmental cognitive neuroscience. *UCB Conference on Neurocognitive Development*. July 2009; Berkeley, CA, USA
54. Dyslexia: Dysfunction and compensatory mechanisms. *International Congress of Psychology*. July 2008; Berlin Germany
55. Brain basis of learning disabilities and implications for individuals differences in learning. *Gifted Learning Conference*. October 2007; Hillsborough CA, USA.
56. Real-time fMRI and its application. *Association for the Scientific Studies of Consciousness, Plenary Symposium*, Las Vegas NV, USA, July 2007.
57. Neural basis of hypnotizability. *American Psychological Association Annual Meeting*, New Orleans LA USA, August 2006.
58. Ethical and training issues in biological psychiatry. *FYP Program Workshop: XII World Congress of Psychiatry*. August, 2002; Yokohama, Japan

59. New biological treatments in psychiatry: Transcranial magnetic stimulation. *XII World Congress of Psychiatry*. August 2002; Yokohama, Japan
60. 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.
61. TMS studies of cortical excitability in depression. *International Symposium on Electromagnetics in Biology and Medicine*. April, 2001; Tokyo, Japan.
62. TMS studies of the mirror neuron system. *12<sup>th</sup> World Congress of the International Society for Brain Electromagnetic Topography (ISBET 2001) / 3<sup>rd</sup> Annual Meeting, Japan Human Brain Mapping (3<sup>rd</sup> JHBM) / 18<sup>th</sup> Japanese Society for Brain Electromagnetic Topography (18<sup>th</sup> JSBET) / 27<sup>th</sup> Annual Meeting of Character, Behavior, Electroencephalogram Society (27<sup>th</sup> CBES)*. March, 2001; Utsunomiya, Japan.
63. Studying depression with transcranial magnetic stimulation. *30th Annual Congress of the Japanese Society of Clinical Neurophysiology*. December, 2000; Kyoto, Japan.
64. Transcranial magnetic stimulation studies of cortical excitability in mood disorders. *10<sup>th</sup> Congress of the Association of European Psychiatrist*. October, 2000; Prague, Czech.
65. Transcranial magnetic stimulation studies of cortical excitability in depression. *Society of Biological Psychiatry Annual Meeting*. May, 2000; Chicago IL, USA.
66. Morita therapy in the treatment of somatoform disorders (Symposium). *IX World Congress of Psychiatry*. August, 1999; Hamburg, Germany.
67. The future of psychiatry (Presidential Forum). *IX World Congress of Psychiatry*. August, 1999; Hamburg, Germany.
68. 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.

#### INVITED COLLOQUIA (90 total)

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1. Stanislaus County of Education, The Learning Quest, SLD Foundation hosted event. June 2017; Modesto CA, USA.
  2. Children's Health Council, Sand Hill School. May 2017; Palo Alto CA, USA.
  3. Holy Names University / Raskob School Lecture. Feb 2017; Oakland CA, USA.
  4. Stanford University Department of Psychiatry K2R Seminars. Jan 2017; Stanford CA, USA.
  5. UCSF Alumni Event. Nov 2016; Sausalito CA, USA.
  6. Oak Foundation Board Meeting. Oct 2016; Switzerland
  7. Athena Academy Oct 2016; Palo Alto CA, USA.
  8. Distinguished Lecturer. Research on Challenges in the Acquisition of Language and Literacy (RCALL) Initiative. Georgia State University. September 2016; Atlanta GA, USA.
  9. Westmark School. August 2016, Los Angeles CA, USA.
  10. Keynote, Annual Research Lecture. AIM Academy. August 2016, Philadelphia PA, USA

11. Haskins Laboratories Staff Talk. April 2016; New Haven CT, USA
12. Annual Robert J. Schwartz Lecturer. Windward School. April 2016; White Plains NY, USA
13. Florida State University Florida Center for Reading Research. March 2016; Tallahassee FL, USA
14. Chartwell School. March 2016; Seaside CA, USA
15. Creativity Salon. Feb 2016; San Francisco CA, USA
16. Univ Texas Austin Communication Sciences and Disorders Colloquium Series. Jan 2016; Austin TX, USA
17. Univ Texas San Antonio Neurosciences Institute Neurobiology Lecture Series. Jan 2016; San Antonio TX, USA
18. Keynote Speaker. Bay Area Science Seminar. Jan 2016; San Francisco CA, USA
19. Parent Education Network. Dec 2015; San Francisco CA, USA.
20. Chapman University. Oct 2015; Orange CA, USA
21. BCBL (Basque Center for Cognition, Brain and Language) Multiliteracy Meeting. June 2015. San Sebastian, Spain.
22. US Department of Education, Office of Civil Rights (OCR), National webinar. June 2015; San Francisco CA, USA.
23. UCSF Department of Psychiatry, Child and Adolescent Psychiatry, Grand Rounds. May 2015; San Francisco CA, USA.
24. 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.
25. UC Berkeley IHD (Inst Human Development) Speaker Series. Intergenerational Imaging of Human Brain Networks. December 2014. Berkeley, CA USA.
26. BCBL (Basque Center for Cognition, Brain and Language) External Speaker Series. Intergenerational Imaging of Human Brain Networks. September 2014. San Sebastian, Spain.
27. UCSF Department of Psychiatry Research Retreat. Understanding large-scale networks during development using neuroimaging. May 2014
28. Keio University Department of Psychiatry Seminar. Introduction to research. April 2014
29. Haskins Laboratories, Yale University. Multi-Center Network Meeting. Convergence and divergence of implicit learning & reading networks in the human brain. April 2014
30. Columbia University Department of Psychiatry Seminar. Translational potential of neuroimaging to practice: taking dyslexia as an example. March 2014
31. UT Houston Health Science Center Department of Psychiatry. Translational potential of neuroimaging to practice: taking dyslexia as an example. January 2014.
32. UCSF Department of Neurosurgery, Chang Lab Meeting. April 2013; SF CA
33. UC Merced Department of Psychology Colloquium Series. Feb 2013; Merced CA
34. UCSF Department of Psychiatry, Child and Adolescent Psychiatry, Grand Rounds. Jan 2013; SF CA
35. UC Davis MIND Institute, Research Seminar Series. Jan 2013; Davis CA

36. Harvard Boston Children's Hospital, Developmental Medicine Center Seminar Series. May 2012; Boston MA
37. UCSF Department of Neurology, Memory and Aging Center, Grand Rounds. April 2012; San Francisco CA
38. Stanford University, Department of Psychology, FriSem. March 2012; Stanford CA
39. UCSF Department of Psychiatry, Neuroscience Seminar. February 2012; San Francisco CA
40. UCSF Department of Psychiatry, Grand Rounds. February 2012; San Francisco CA
41. ABC Preschool. Teacher Training Day. February 2012; San Francisco, CA
42. San Francisco Unified School District. January 2012; San Francisco, CA
43. Stanford University Institute for Computational & Mathematical Engineering Seminar. October 2011; Stanford CA
44. Potential applications of advanced neuroimaging in clinical practice. Keio University School of Medicine. Dept of Neuropsychiatry Seminar Series. October 2011; Tokyo, Japan
45. From Cognitive Neuroscience Research to Educational Practice and Policy: Bridging the Bridge Too Far. Cognitive Science Colloquium. February 2011; Pittsburgh PA
46. From Cognitive Neuroscience Research to Educational Practice and Policy: Bridging the Bridge Too Far. SRI International. March 2011; Menlo Park CA
47. From Cognitive Neuroscience Research to Educational and Clinical Practices: Bridging the Bridges Too Far. University of California San Francisco. April 2011; San Francisco CA
48. From Cognitive Neuroscience Research to Educational and Clinical Practices: Bridging the Bridges Too Far. University of Texas Houston. April 2011; Houston TX
49. Application of Real-Time fMRI Feedback. *Cognitive Science Colloquium*. March 2010; Univ Arizona, Tucson AZ, USA
50. Studying gene-brain-behavior relationships in Williams and fragile X syndromes. Research Seminar Series. *MIND Institute*. October 2009; Sacramento, CA, USA
51. Noninvasive Transcranial Brain Stimulation and Pain. *Dept of Anesthesia, Grand Rounds, Stanford Univ Sch of Med*. December 2008; Palo Alto CA, USA
52. Imaging Genomics: Dissecting Gene-Brain-Behavior Relationships Using Neuroimaging. *Dept of Psychiatry, Kyushu Univ, Sch of Med*. December 2007; Fukuoka Japan
53. Recent Development in Neuroimaging. *Kawano Hospital*. December 2007; Fukuoka Japan
54. Opening Remarks. *Disabilities Awareness Event, Stanford Univ*. November 2007; Palo Alto CA, USA
55. Applications of real-time fMRI. *Plasticity Seminar, Univ California Berkeley*. September 2007; Berkeley CA, USA
56. How can neuroimaging tools enhance clinical and educational practice? *Science Talk, Sackler Institute*. December 2006; NYC NY, USA
57. Predicting reading achievement using behavioral, functional and neuroimaging measures. *Educational Neuroscience Meeting, Stanford University / Sackler Institute*. June 2006; Palo Alto CA, USA

58. Neuroethics of TMS research. *Stanford University Neuroscience Graduate School Program*. February 2006; Palo Alto CA, USA
59. Real-time fMRI: novel technique to study brain and behavior. *Stanford Center for Innovations of Learning*. November 2005; Palo Alto CA, USA
60. Neural basis of reading and dyslexia: A multimodal imaging approach. *Showa University School of Medicine, Dept of Psychiatry*. August 2005; Tokyo, Japan
61. New advances in neuroimaging: From assessment to treatment. *Suuri-no Tsubasa Kaki Seminer (Summer Seminar for Math and Science)*. August 2005; Tokyo, Japan
62. 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
63. Multisensory integration: Understanding its mechanism through illusions. *Suuri-no Tsubasa Kaki Seminer (Summer Seminar for Math and Science)*. August 2005; Tokyo, Japan
64. Neural basis of reading and dyslexia: A multimodal imaging approach. *National Defense Medical College, Dept of Psychiatry*. August 2005; Saitama, Japan
65. 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
66. 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.
67. 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.
68. 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.
69. Self and sense of agency. *Artcenter College of Design*. February 2003; Pasadena CA, USA.
70. Sensing action, sensing time. *Institute of Psychiatry*. July 2002; London, UK.
71. Neural mechanism of action understanding. *Department of Psychology, Stanford University*. June 2002; Palo Alto CA, USA.
72. Neural mechanism of action understanding. *Unit of Mood and Anxiety Disorders, NIMH*. May 2002; Bethesda MD, USA.
73. 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.
74. 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.
75. 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.



76. TMS and fMRI Studies of the Mirror Neuron System. *General Systems Studies, Department of Multi-Disciplinary Sciences, University of Tokyo*. October 2001; Tokyo, Japan.
77. TMS studies of action observation. *Brain Mapping Center, UCLA*. May 2001; Los Angeles CA, USA.
78. TMS in psychiatry. *Department of Psychiatry, Federal University of Sao Paolo*. February 2001; Sao Paolo, Brazil.
79. TMS in psychiatry. *Department of Psychiatry, Sao Paolo University*. February 2001; Sao Paolo, Brazil.
80. TMS studies of action observation. *Department of Computer Science, University of Southern California*. January 2001; Los Angeles CA, USA.
81. TMS and its use in psychiatry. *Department of Neuropsychiatry, Tokyo Women's Medical College*. December, 2000; Tokyo, Japan.
82. 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.
83. Theoretical and in vitro measurements of cortical excitability using TMS. *Laboratory for Computational Neural Systems, California Institute of Technology*. April, 2000; Pasadena CA, USA.
84. Safety Issues on TMS. *Department of Neuropsychiatry, Showa Univ. School of Medicine*. April, 2000; Tokyo, Japan.
85. TMS and its use in psychiatry. *Neurophysiology Research Forum, Department of Neuropsychiatry, Keio Univ. School of Medicine*. March, 2000; Tokyo, Japan.
86. TMS and its use in psychiatry. *Yowa Hospital*. March, 2000; Tokyo, Japan.
87. TMS and its use in neuropsychiatric disorders. *Neuropsychiatry Department Grand Round, Keio Univ. School of Medicine*. June, 1999; Tokyo, Japan.
88. TMS; basic principles and studies combining neuroimaging. *Radiology & Neuropsychiatry Department, National Institute of Neurology and Mental Health*. June, 1999; Tokyo, Japan.
89. Morita Therapy. *Department of Biological Psychiatry, Columbia University, College of Physicians and Surgeons, New York Psychiatric Institute*. September, 1998; New York NY, USA.
90. Differences between U.K. and Japan and their cultural backgrounds. *Psychology class for undergraduates at Keio Univ. School of Psychology*. May, 1992; Tokyo, Japan.

#### CONFERENCE TALKS (11 total)

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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 12<sup>st</sup> 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. *34<sup>th</sup> 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 (on 28 topics)

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1. ABC7 TV. February 23, 2016  
<http://abc7news.com/society/beyond-the-headlines-with-cheryl-jennings-dyslexia/1214419/>  
**Work at the UCSF Dyslexia Center**
  2. The UC, UCSF, UCSF Psychiatry Press Release. January 26, 2016  
<http://universityofcalifornia.edu/news/mothers-may-pass-brain-structure-linked-depression-daughters>  
 Scientific American – 01/26/2016, Reuters, Scientific American MIND. May 2016 issue. UC Science Today podcast  
**Stories on a study published in J Neurosci 2016**
  3. The New York Times. July 23, 2016  
[http://www.nytimes.com/2016/07/24/opinion/sunday/the-right-way-to-bribe-your-kids-to-read.html?\\_r=0](http://www.nytimes.com/2016/07/24/opinion/sunday/the-right-way-to-bribe-your-kids-to-read.html?_r=0)  
 “The Right Way to Bribe Your Kids How to Read”  
**Story on reading.**
  4. The New Yorker. February 11, 2015

<http://www.newyorker.com/science/maria-konnikova/how-children-learn-read>  
“How Children Learn to Read”

**Story highlighting Fumiko Hoefft’s work.**

5. UCSF Press Release. September 15, 2014  
<http://www.ucsf.edu/news/2014/09/117256/study-first-use-brain-scans-forecast-early-reading-difficulties>  
Psychological Science “This week in Psychological Science”– 09/23/2014  
KQED – 9/28/2014  
<http://blogs.kqed.org/science/2014/09/29/mri-research-at-ucsf-could-help-diagnose-dyslexia-even-earlier-in-children/>  
US News – 09/22/2014  
<http://consumer.healthday.com/kids-health-information-23/child-development-news-124/briefs-9-15-ucsf-brian-scans-can-help-predict-young-children-s-reading-abilities-691829.html>  
UCSF & NIH podcasts and others.  
**Stories on a study published in *Psychol Sci* 2014**
6. UCSF Psychiatry Press Release. December 11, 2014  
<http://psych.ucsf.edu/news/gazzaley-hoefft-take-part-white-house-workshop-neuroscience-and-learning>  
**White House OSTP workshop on Neuroscience of Learning**
7. SF Gate. February 07, 2013  
Center for Childhood Creativity and UCSF Laboratory for Educational Neuroscience Form Partnership to Collaborate on Creativity in Children  
<http://www.sfgate.com/business/prweb/article/Center-for-Childhood-Creativity-and-UCSF-4260428.php#ixzz2SDWAXZFf>
8. Stanford Medicine Magazine. September 28, 2011  
<http://med.stanford.edu/ism/2011/september/dyslexia.html>  
NICHD Press Release – 11/03/2011  
<http://www.nichd.nih.gov/news/releases/110311-dyslexia-IQ.cfm?renderforprint=1>  
MIT Press Release – 09/23/2011  
<http://web.mit.edu/newsoffice/2011/dyslexia-iq-0923.html>  
Psychological Science – 09/28/2011  
<http://www.psychologicalscience.org/index.php/news/releases/fmris-show-that-dyslexia-isnt-a-matter-of-iq.html>  
LA Times – 11/03/2011  
<http://articles.latimes.com/2011/nov/03/news/la-heb-dyslexia-20111103>  
And many others such as Telegraph Daily, and MIT Press Release.  
**Stories on a study published in *Psychol Sci* 2011**
9. Stanford Medicine News. May 3, 2010  
<http://med.stanford.edu/ism/2010/may/fragile-X.html>  
Neurology Today – 07/15/2010  
[http://journals.lww.com/neurotodayonline/Fulltext/2010/07150/Imaging\\_Reveals\\_Early\\_Alterations\\_in\\_Brains\\_of.1.aspx](http://journals.lww.com/neurotodayonline/Fulltext/2010/07150/Imaging_Reveals_Early_Alterations_in_Brains_of.1.aspx)  
Science Daily - 05/04/2010  
<http://www.sciencedaily.com/releases/2010/05/100503161239.htm>  
**Stories on a study published in *PNAS* 2010**
10. Stanford Medicine Magazine. December 20, 2010.  
<http://med.stanford.edu/ism/2010/december/dyslexia.html>

NICHHD Press Release – 12/20/2010  
<http://www.nichd.nih.gov/news/releases/121610-dyslexia-brain-scans.cfm>  
 KGO AM 810 radio show 12/20/2010  
 CNN News – 12/21/2010  
<http://www.cnn.com/2010/HEALTH/12/21/dyslexia.kids/index.html>  
 TIME Magazine – 12/20/2010  
<http://healthland.time.com/2010/12/20/diagnosing-dyslexia-better/>  
 Science Magazine (ScienceNow) – 12/20/2010  
<http://news.sciencemag.org/sciencenow/2010/12/a-better-read-on-the-dyslexic-br.html?rss=1>  
 And many others such as Reuters, WebMD, MIT Press Release, and Vanderbilt Press Release.  
**Stories on a study published in *PNAS* 2011**

11. Stanford Medicine Magazine. February 4, 2008.  
[http://med.stanford.edu/news\\_releases/2008/february/videobrain.html](http://med.stanford.edu/news_releases/2008/february/videobrain.html)  
 KCBS radio - 02/06/08  
<http://www.kcbs.com/pages/1595099.php?contentType=4&contentId=1509521>  
 Yahoo! News - 02/08/08  
[http://news.yahoo.com/s/hsn/20080209/hl\\_hsn/formalesvideogamerewardsareallinthemind](http://news.yahoo.com/s/hsn/20080209/hl_hsn/formalesvideogamerewardsareallinthemind)  
[http://www.washingtonpost.com/wp-dyn/content/article/2008/02/08/AR2008020801300\\_pf.html](http://www.washingtonpost.com/wp-dyn/content/article/2008/02/08/AR2008020801300_pf.html)  
 CNN News - 2/13/08  
<http://www.cnn.com/video/#/video/health/2008/02/13/gupta.video.games.cnn>  
 New York Times - 02/19/08  
<http://www.nytimes.com/2008/02/19/health/19patt.html>  
 And many others ....

**Stories on a study published in *J Psychiatr Res* 2008**

12. Post-Gazette, February 11, 2007, Dyslexia begins when the wires don't meet  
<http://www.post-gazette.com/pg/07042/760823-114.stm>  
**Story on a study published in *Cerebr Cort* 2007.**
13. Telegraph UK, Feb 20, 2007, Clue to Cause of Dyslexia  
<http://www.telegraph.co.uk/connected/main.jhtml?xml=/connected/2007/02/20/ndyslexia20.xml>  
**Story on a study published in *PNAS* 2007.**
14. APA Press, June 10, 2007, Methods to Identify At-Risk Readers  
[http://www.apa.org/releases/at-risk\\_readers.html](http://www.apa.org/releases/at-risk_readers.html)  
 Other stories in Science Daily, Yahoo! News, Herald Globe, etc...  
**Stories on a study published in *Beh Neurosci* 2007.**
15. Nueva School, October 24, 2007, Press release: Gifted Learning Conference  
[https://www.nuevaschool.org/base.php?q\\_\\_=xUD5zftwihxPiul90CgbQNrr7JUSwCZPrwXUoLTD](https://www.nuevaschool.org/base.php?q__=xUD5zftwihxPiul90CgbQNrr7JUSwCZPrwXUoLTD)  
 Fwy76KVYOkvTkB8CgC6gjGmQ (about the Gifted Learning Conference 2007)
16. Stanford Interaction, Fall 2007, The Stanford's Latest Brainchild  
<http://multi.stanford.edu/interaction/>  
**Story on brain imaging in general**
17. Stanford Report, November 7, 2007, Cardinal Chronicle  
<http://news-service.stanford.edu/news/2007/november7/col-110707.html>  
**Story on opening remarks for a film screening 'Headstrong'**
18. Stanford Medicine Magazine. Fall, 2005. *The science and ethics of exploring the mind*  
<http://mednews.stanford.edu/stanmed/2005fall/brain-main.html>  
**Story on TMS and ethics**

19. NPR. July 6, 2005, Tracking and Controlling Pain by Sight  
<http://www.npr.org/templates/story/story.php?storyId=4731172>  
Technology Review. Dec 19, 2005, Mind-Control Over Pain  
<http://www.trjobs.com/Biotech/16062/page1/>  
Nature Reviews Neuroscience 7, 90; Feb 2006, Pain: Thinking pain away  
<http://www.nature.com/nrn/journal/v7/n2/full/nrn1858.html>  
Nature News. Dec 12, 2005, Thought control brings pain into line: Brain imaging helps pain patients learn to reduce their own pain.  
<http://www.nature.com/news/2005/051212/full/051212-1.html>  
**Stories on a study published in PNAS 2005.**
20. New Scientist. May 1, 2004. *Brain-watching helps suppress pain*  
<http://www.newscientist.com/article.ns?id=mg18224451.400>  
New Scientist. May 3, 2004. *Controlling brain by watching your brain*  
<http://www.newscientist.com/article.ns?id=dn4931>  
**Stories on real time fMRI training in healthy subjects to control brain activation**
21. New Scientist. Dec 18, 2004. *Sounds change the way people see*  
<http://www.newscientist.com/article.ns?id=mg18424785.400>  
**Story on a study published in Curr Biol 2004.**
22. Psychiatry News 2003 38: 16-17. *New International Group Links Young Psychiatrists*  
<http://pn.psychiatryonline.org/cgi/content/full/38/12/16>  
**Story on WAYPT**
23. The Chronicle of Neurology and Psychiatry. March, 2003: 22-23  
**Story on TMS and depression**
24. Sankei Shinbun. 6/8/2004 p.14  
**Story on multi-sensory integration, and innateness of metaphor, language and thought**
25. Discovery Channel: Health: *Brain Imaging*. 2002.  
**Story on functional brain landmark project and other projects at BMC.)**
26. Society for Neuroscience Press Conference. *Mind Function: Deception & Intention*. November, 2001. (SFN Poster Presentation in 2001)  
**Story on an fMRI study of intentionality**
27. Wired Magazine. *Let's make your head interactive*. August, 2001.  
**Story on the functional brain landmark project and other projects at UCLA Brain Mapping Center**
28. ABC-TV: News Report. *New Hope: TMS as a New Treatment for Depression*. Fall, 1999 **Story on TMS as a therapeutic tool in Depression**