

## **Thomas A.S. Deuel, MD, PhD**

Neurologist, Neuroscientist, Musician/Sound Artist

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### **EMPLOYMENT**

Swedish Hospital, Seattle WA                      Staff Physician, Neurophysiologist    8/1/12-  
  
University of Washington, Seattle WA      Acting Assistant Professor, Center for  
   Digital and Experimental Art (DXArts) and School of Music                      2014-  
  
*The Pintados Project* (Documentary Film)    Sound Recordist, Audio Engineer      2012

### **EDUCATION/TRAINING**

Princeton University	B.A.	9/1990-6/1994	Molecular Biology
Harvard Medical School/M.I.T.	M.D.	9/1997-6/2006	Medicine
Harvard Medical School	Ph.D.	9/1999-8/2004	Neurobiology
New England Conservatory	Certificate (Jazz)	2000-4	Music Composition, Performance
Yale-New Haven Hospital	Internship	7/2006-6/2007	Internal Medicine
Partners Healthcare (MGH/BWH)	Residency	7/2007-6/2010	Neurology Residency
Beth Israel-Deaconess Medical Center	Fellowship	7/2010-6/2011	Neurophysiology (Epilepsy)
U. of Washington, Harborview Hospital	Fellowship	7/2011-6/2012	Neurophysiology (Epilepsy)

### **EXHIBITIONS**

2016    *The Encephalophone Ensemble* (Group Performance), 9e2 Seattle Festival of Art, Science and Technology, Seattle, WA  
2016    *Encephalophone* (Solo Performance), Art Neureau Festival, Seattle, WA  
2015    *Dr. Gyruus and the Electric Sulci Featuring The Encephalophone* (Group Performance), Megapolis Audio Festival, San Francisco CA  
2014    *Talking Solar Oysters* (Solo Exhibition), Palace Gallery, Georgetown Arts and Cultural Center, Seattle WA  
2011    *Aural Postcards of Benares* (Solo Exhibition/Performance), Salon Sloppy, Boston MA  
2010    *Sense of Place* (Solo Exhibition), Megapolis Audio Festival, Baltimore MD  
          *Parachute Dance* (Two-Person Exhibition), Megapolis Audio Festival, Baltimore MD

### **INVITED TALKS**

2017    Pacific Northwest Psychological Society, Seattle WA  
2017    Audio Engineering Society (AES), Digipen, Bellvue, WA  
2016    MIT Enterprise Forum NW, "Augmented Humans", Town Hall Seattle WA

- 2015 Microsoft Research, Microsoft Building 99, Redmond WA
- 2015 Art and Technology Meetup Forum, Institute for Systems Biology, Seattle WA
- 2015 Conversations on Art and Culture, Vermillion Gallery/Performance, Seattle WA

### **TEACHING EXPERIENCE**

- 2015-16 Lecturer, DXArts 490: Art and Brain, University of Washington
- 2014 Lecturer, Advanced Seizure management for Fellows, Swedish Medical Center
- 2014 Invited Speaker, Cerebrovascular Symposium, Swedish Neuroscience Institute
- 2013 Graduate Student Mentor, DXArts 500 Graduate Seminar, University of Washington
- 2013 Guest Lecturer, DXArts 500 Graduate Seminar, University of Washington
- 2012-present Medical Student Neurology clinical teaching to University of Washington Students
- 2011 Lecturer, Basics of Epilepsy for Residents, University of Washington
- 2000-2002 Head Teaching Assistant, Introduction to Neuroscience Course, Harvard Medical School
- 2000 Teaching Assistant, Introduction to Neuroscience Course, Harvard Medical School

### **RESEARCH EXPERIENCE**

- 2012-present Principal Investigator, Director, Deueling Thumbs Studioblab, Seattle WA
- 2011- 2012 Research Fellow, University of Washington, Laboratory of Felix Darvas
- 2010-2011 Research Fellow, Massachusetts General Hospital, Laboratory of Syd Cash
- 2001-2004 PhD Candidate, Harvard U. Program in Neuroscience, Laboratory of Christopher Walsh
- 2000 PhD Rotation Student, Division of Neurology, Beth Israel Hospital, Harvard Medical School, Boston, Laboratory of Christopher Walsh
- 1999-2000 PhD Rotation Student, Division of Neuroscience, Children’s Hospital, Harvard Medical School, Boston, Laboratory of Jeffrey Macklis
- 1998-1999 Medical Student Research Assistant, Division of Neuroscience, Children’s Hospital, Harvard Medical School, Boston, Laboratory of Jeffrey Macklis
- 1994-1997 Research Associate, Center for Neurobiology and Behavior, Columbia University, Laboratory of Eric Kandel
- 1993-1994 Undergraduate Laboratory Assistant, Dept. of Molecular Biology, Princeton University, Laboratory of Yashua Hiromi

### **AWARDS AND GRANTS**

- 2017-18 National Endowment for the Arts, Creativity Connects
- 2016 9e2 Seattle Artist grant (for group performance), Seattle WA
- 2016 4Culture Tech-Specific Arts Grant (for group performance), Seattle WA
- 2015 Exhibiting Artist Award, Megapolis Audio Festival, San Francisco CA
- 2012 Board Certification, American Board of Psychiatry and Neurology
- 2010 Top Scholar Travel Grant – American Epilepsy Society
- 2010 Exhibiting Artist Award, Megapolis Audio Festival, Baltimore MD
- 2010- American Epilepsy Society (AES)
- 2006- American Association of Neurology (AAN)
- 2004-2005 Harvard Center For Neurodegeneration and Repair Fellowship
- 2002-2003 Stuart H.Q. & Victoria Quan Fellowship in Neuroscience
- 1997- Massachusetts Medical Society
- 1998 NIH Neurobiology Training Grant
- 1993 Howard Hughes Medical Institute Undergraduate Summer Research Fellowship

### **PUBLICATIONS**

**Deuel TA**, Pampin J, Sundstrom J and Darvas F (2017) The Encephalophone: A Novel Musical Biofeedback Device using Conscious Control of Electroencephalogram (EEG). *Front. Hum. Neurosci.* 11:213. doi: 10.3389/fnhum.2017.00213

**Deuel TA**, Pampin J, Sundstrom J, Darvas F. The Encephalophone: A novel brain-computer music interface and cognitive rehabilitation device using conscious control of electroencephalogram (EEG) ; Presentation number 540.16: Society for Neuroscience Annual Meeting, Chicago, IL Oct 20, 2015.

Chao FC, **Deuel TA**, Venna N., 2010, Neurologic Infectious Diseases, in Greer, D. ed., *Pocket Neurology*, Lippincott Williams & Wilkins pp149-167.

**Deuel TA\*** Liu JS\*, Corbo JC, Yoo SY, Rorke-Adams LB, Walsh CA. Genetic interactions between Doublecortin (Dcx) and the Doublecortin-like kinase (Dclk-1) in neuronal migration and axon outgrowth. *Neuron* 2006 Jan 5;49(1):25-39.

Corbo JC, **Deuel TA**, Long JM, LaPorte P, Tsai E, Wynshaw-Boris A, Walsh CA. Doublecortin is required in mice for lamination of the hippocampus but not the neocortex. *J Neurosci.* 2002 Sep 1;22(17):7548-57.

Abel T. Nguyen PV. Barad M. **Deuel TA**. Kandel ER. Bourtschouladze R. Genetic demonstration of a role for PKA in the late phase of LTP and in hippocampus-based long-term memory. *Cell* 88(5):615-26 (1997).

Patterson SL. Abel T. **Deuel TA**. Martin KC. Rose JC. Kandel ER. Recombinant BDNF rescues deficits in basal synaptic transmission and hippocampal LTP in BDNF knockout mice. *Neuron* 16(6):1137-45 (1996).

## **LANGUAGES SPOKEN**

French  
Spanish