

6/20/2012

An Hong Do, MD
Curriculum Vitae

Work Address

Department of Neurology (Primary)
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

Or

Department of Spinal Cord Injury
5901 East 7th Street
Mail Code 07/128
Long Beach, CA 90822

Phone: 714-456-7707
Cellular Phone: 909-263-2279
Pager: 714-506-1337
Email: and@uci.edu

Positions

7/1/2011- 6/30/2012	Advanced Fellow Long Beach Veterans Affairs Hospital 5901 East 7 th Street Long Beach, CA 90822
7/6/2011- current	Clinical Instructor Department of Neurology University of California, Irvine Medical Center 101 The City Drive Orange, CA 92868

Education

2002-2006	MD UCR/UCLA Thomas Haider Program in Biomedical Sciences. University of California, Los Angeles/Riverside 10833 Le Conte Ave # 12138 Los Angeles, CA 90095-3075 (310) 825-6373
1999-2003	Bachelor of Science in Biomedical Sciences Thomas Haider Program in Biomedical Sciences 1626 Statistics-Computer Building University of California, Riverside Riverside, CA 92521-0121 (951) 827-4568

Post Graduate Training

7/1/2011-
6/30/2012 Advanced Fellowship in Traumatic Brain Injury and
Neurological Injury
Long Beach Veterans Affairs Hospital
5901 East 7th Street
Long Beach, CA 90822

7/1/2010-
6/30/2011 Fellowship in Spinal Cord Injury Medicine
Department of Physical Medicine and Rehabilitation
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

Spinal Cord Injury Center (by affiliation)
Long Beach Veterans Affairs Hospital
5901 East 7th Street
Long Beach, CA 90822

Neurorehabilitation Services (by affiliation)
Rancho Los Amigos National Rehabilitation Center
7601 E. Imperial Highway
Downey, CA 90242

7/1/2007-
6/30/2010 Neurology Residency
Department of Neurology
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

Department of Neurology (by affiliation)
Long Beach Veterans Affairs Hospital
5901 East 7th Street
Long Beach, CA 90822

7/1/2006-
6/30/2007 Medical Internship
Department of Internal Medicine
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

Certifications and Licensures

Since California State Medical License #A104278
7/2008

Since ACLS Certification
6/2006

Since American Board of Psychiatry and Neurology, Certificate
11/2010 #56199

Since American Board of Physical Medicine and Rehabilitation,
12/2011 Spinal Cord Injury Sub-specialization

Honors and Awards

5/2011	Clinical Trials Course In Neurology Awardee University of Rochester and National Institute of Neurological Disorders and Stroke (NINDS) Vail, Colorado
1/2011	American Academy of Neurology Travel Award for AAN Research Career Development Symposium 2011 American Academy of Neurology 2011 Annual Meeting Honolulu, Hawaii
6/2010	Outstanding Resident Research Award Department of Neurology Residency Program University of California, Irvine Medical Center
6/2010	Certificate of Achievement Department of Neurology Residency Program University of California, Irvine Medical Center
6/2010	Excellence in Neural Interfacing Travel Award, 39 th Neural Interfaces Conference 2010, Long Beach Conference Center, Long Beach, CA
6/2009	Outstanding Resident Research Award Department of Neurology Residency Program University of California, Irvine Medical Center
6/2008	Certificate of Appreciation Department of Neurology Residency Program University of California, Irvine Medical Center
6/2008	Certificate of Excellence Department of Neurology Residency Program University of California, Irvine Medical Center

Educational Activities

Mentoring

7/2009-present	Student mentoring: This involves teaching and advising undergraduate and graduate students of biomedical engineering on introductory concepts of neuroscience and neurophysiology.
7/2006-present	Medical Student Teaching: This involves preparing and giving a programmed series of organized short lectures, handouts, and presentations for medical students during their neurology clinical rotation.
7/2011-present	Neurology Resident Teaching: This involves co-teaching approximately 10% of a year-long seminar series on basic

clinical neuroscience for neurology residents.

Educational Committees

7/2007-
6/2009

University of California, Irvine Medical Center, Neurology Educational Committee: Represented UCI neurology residents in an educational committee composed of Neurology Department Chairman, Neurology Residency Program Director, and departmental faculty to develop residency and medical student educational curriculum, resolve problems within the residency program, and initiate steps for program improvement.

Outreach

9/2009-
present

University of California, Irvine Outreach Programs: This is a long term involvement in various National Science Foundation (NSF) funded outreach programs designed to inspire students of backgrounds underrepresented in science, engineering, and medicine, to aspire for higher education and life-long learning.

Research Experience

10/2009-
12/2010

Carbon Nanotube Electrodes for Single Neuron Recording and Stimulation.
Co-PIs: Zoran Nenadic, DSc; Philip Collins, PHD.

6/2009-
present

Feasibility of Electrocorticogram based Brain Computer Interface for Prosthetic Applications
Co-PI: Luis A. Chui, MD; Zoran Nenadic, DSc

1/2009-
present

Brain Computer Interface Controlled Walking Simulator.
Co-PIs: Luis A. Chui, MD; Zoran Nenadic, DSc.

12/2008-
present

Brain Computer Interface Controlled Wheelchair.
Co-PIs: Luis A. Chui, MD; Zoran Nenadic, DSc.

12/2010-
present

Brain Computer Interface controlled Functional Electrical Stimulation Systems for the Lower Extremities.
Co-PIs: Zoran Nenadic, DSc; Steven Cramer, MD

11/2010-
present

Brain Computer Interface controlled robotic hand orthosis
Co-PIs: Zoran Nenadic, DSc; David Reinkensmeyer, PHD, Shunji Moromugi, PHD.

Grants

Active Grants

10/2011-
9/2014

Title: The Feasibility of Electrocorticogram Brain-Computer Interface for Control of Arm Prostheses
Funding Agency: National Science Foundation (Award Number: 1134575)
Role: Co-PI

Award amount: \$246,310

1/2010-12/2011
Title: Brain Computer Interface Controlled Walking Simulator (renewal, no cost extension).
Funding Agency: Roman Reed Spinal Cord Injury Research Fund of California (RR10-281).
Role: Co-PI.
Award amount: \$39,908
Total direct amount: \$39,908.

7/1/11-6/30/12
Title: Advanced Fellowship in Traumatic Brain Injury/Polytrauma/Neurological Injury
Funding agency: Long Beach Veterans Affairs
Role: PI/Fellow
Award amount: \$10,000
Total direct amount: \$10,000 research funds + salary (competitive renewal is possible for up to additional 1 year of support)

4/8/11-6/30/12
Title: Feasibility of brain-machine interface controlled FES device for ambulation
Funding Agency: Long Beach VA Southern California Institute for Research and Education Small Grants Program
Role: PI
Award amount: \$5,000
Total direct amount: \$5,000

6/14/11-6/13/12
Title: BCI-FES Systems for Neurorehabilitation
Funding Agency: UCI NIH CTSA Subaward
Role: Co-I
Award amount: \$3736

7/1/12-6/30/2014
Title: A Non-invasive Brain Computer Interface Method to Improve Gait Functional Recovery After Stroke
Funding Agency: American Academy of Neurology
Role: PI
Award Amount: \$130,000

Completed Grants

1/2009-12/2009
Title: Brain Computer Interface Controlled Walking Simulator.
Funding Agency: Roman Reed Spinal Cord Injury Research Fund of California (RR08-258).
Role: Co-PI.
Award amount: \$75,000.
Total direct amount: \$75,000.

10/2009-12/2010
Title: Carbon Nanotube Electrodes for Single Neuron Recording and Stimulation.
Funding Agency: The UCI Academic Senate Council on Research, Computing and Libraries (#MI 25-2009-2010).

Role: Co-PI (non-Academic Senate).

Award Amount: \$13,700.

Total direct amount: \$13,700.

Publications

In Print

Gallion A, **Do AH**, Chang GY. Lateralized Infarcts in Cerebral Air Embolism. *Journal Of Clinical Neuroscience*. 2010 Jul; 17, 943-944

Original Work In print

Wang PT, King CE, Chui LA, Nenadic Z, **Do AH**. BCI Controlled Walking Simulator For a BCI Driven FES Device. In Proc. of RESNA Annual Conference, Las Vegas, Nevada, June 26-30, 2010.

Wang PT, King CE, **Do AH***, Nenadic Z*. A durable, low-cost electrogoniometer for dynamic measurement of joint trajectories, *Med. Eng. Phys. Med. Eng. Phys.*, vol. 33(5), pp. 546-552, 2011. ***Co-corresponding authors.**

Do AH, Wang PT, King CE, Abiri A, Nenadic Z. Brain-computer interface controlled functional electrical stimulation system for ankle movement, *J. NeuroEng. Rehabil.*, vol. 8(49), 2011.

King CE, Wang PT, Mizuta M, Reinkensmeyer D, **Do AH**, Moromugi S, Nenadic Z. Noninvasive brain-computer interface driven hand orthosis, in Proc. of the 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society, pp. 5786-5789, 2011.

Do AH, Wang PT, King CE, Schombs A, Cramer SC, and Nenadic Z. "Brain-computer interface controlled functional electrical stimulation device for foot drop due to stroke," in Proc 34th Ann Int Conf of the IEEE Eng in Med and Biol Soc (accepted), 2012.

In Preparation, Submission, or Revision

Wang PT, King CE, Chui LA, **Do AH**, Nenadic Z. Self-paced brain-computer interface control of ambulation in a virtual reality environment. (In revision).

Wang PT, King CE, **Do AH**, Nenadic Z. Pushing the communication speed limit: Optimization of a noninvasive P300 speller. (In submission)

Professional and Academic Affiliations

Since 2008 American Academy of Neurology

Work Experience

7/1/2011-6/30/12 Advanced Fellowship in Traumatic Brain Injury/Polytrauma/Neurological Injury
Long Beach Veterans Affairs Hospital
5901 East 7th Street
Long Beach, CA 90822

7/1/2011-current Clinical Instructor
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

7/1/2010-6/30/2011 Fellowship in Spinal Cord Injury Medicine
Department of Physical Medicine and Rehabilitation
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

7/1/2007-6/30/2010 Residency in Neurology
Department of Neurology
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

7/1/2006-6/30/2007 Internship in Internal Medicine
Department of Internal Medicine
University of California, Irvine Medical Center
101 The City Drive
Orange, CA 92868

Presentations

5/14/12 "Neural Injuries and Brain-Computer Interfaces"

Western University of the Health Sciences
309 E. Second St.
Pomona, CA 91766-1854

3/19/11 Live Brain Computer Interface Demonstration
Reeve-Irvine Spinal Cord Injury Center - Meet the Scientist Forum

Gillespie Neuroscience Research Facility
University of California, Irvine
Irvine, CA 92617

3/14/11 "Brain Computer Interface – Survey of Technology and

Rehabilitation Applications”
Department of Pediatric Neuro-rehabilitation, Invited lecture

Rancho Los Amigos National Rehabilitation Center
7601 East Imperial Highway
Downey, CA 90242

6/9/10 “Brain Computer Interface – An Update”
Department of Neurology Grand Rounds

University of California, Irvine Medical Center.
101 The City Drive
Orange, CA 92868

3/20/10 Live Brain Computer Interface Demonstration
Reeve-Irvine Spinal Cord Injury Center - Meet the Scientist
Forum

Gillespie Neuroscience Research Facility
University of California, Irvine
Irvine, CA 92617

3/10/10 “Brain Computer Interface Controlled Gait Simulator.”
Roman Reed Spinal Cord Research Foundation - Meet the
Scientist Forum

Beckman Center
University of California, Irvine
100 Academy
Irvine, CA 92617

9/26/09 “Can a Computer Read Your Mind?”
The Future of Science Conference

University of California, Irvine
UCI Conference Center
Irvine, CA 92617

6/10/09 “Neurological Causes of Gait Abnormalities.”
Department of Neurology Grand Rounds

University of California, Irvine Medical Center.
101 The City Drive
Orange, CA 92868

3/11/09 “Brain Computer Interface Controlled Gait Simulator.”
Roman Reed Spinal Cord Research Foundation - Meet the
Scientist Forum

Beckman Center

University of California, Irvine
100 Academy
Irvine, CA 92617

4/16/08

“Brain Machine Interfaces.”
Department of Neurology Grand Rounds

University of California, Irvine Medical Center.
101 The City Drive
Orange, CA 92868