

GREGORY G. WESTIN

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EDUCATION:

UC Davis School of Medicine

M.D. expected in May 2013. Co-Director of the Paul Hom Asian (Free) Clinic.

Sacramento, CA, 2009-Present

Columbia University

Coursework including organic chemistry, biology, biochemistry, physics, physiology, and Spanish.

New York, NY, 2007-2009

Harvard University

A.B. *cum laude*, Psychology. Coursework in child development, health policy, cross-cultural medicine, and nutrition.

Cambridge, MA, March 2005

EXPERIENCE:

United States Army National Guard

Sacramento, CA, 2009-present

- With the California Medical Detachment, helped conduct examinations of soldiers to clear them for stateside or overseas service.
- Trained in providing medical care in austere environments such as battalion aid stations in addition to basic soldier skills.

Columbia University Medical Center

New York, NY, 2006-2009

- From January 2007, coordinated technological issues and multiple research studies in the Division of Brain Stimulation and Therapeutic Neuromodulation. Managed clinical studies using transcranial magnetic stimulation (TMS) to treat Obsessive-Compulsive Disorder, Depersonalization Disorder, and Tourette's Syndrome. Coordinated non-clinical study investigating the effect of pulse width modulation on scalp sensation and physiological response in TMS. Wrote LabVIEW and MATLAB software to control a novel TMS device, coordinate TMS devices with the administration of fMRI and EEG, and gather and analyze data. Trained staff in techniques including motor threshold determination and frameless stereotaxy use.
- In 2006, worked in the research lab and practice of Dr. Timothy Wang, chief of the Digestive and Liver Diseases Division.

Casablanca American School

Casablanca, Morocco, 2005-2006

- Co-managed classrooms of 12-15 three- to five-year-olds in a half-day pre-school program.
- Taught and planned curriculum for two classes of fourth grade physical education.
- With the PE and preschool faculty, revised standards and benchmarks for physical, health, and preschool education.

Mahatma Gandhi Memorial Medical Trust

Pedaamiram, Andhra Pradesh, India, Summer 2004

- As a recipient of a Radcliffe Cary Agassiz fellowship, volunteered in the Trust's model preschool, helped run rural cancer screening camps, and improved and distributed informational pamphlets about cancer prevention and detection.
- Shadowed an obstetrician, a general surgeon, and a pediatrician connected to the Trust in their private practices in Bhimavaram in order to learn more about the system of health care in the area.

Project HEALTH

Cambridge, MA, 2001-2004

- As a volunteer and program coordinator with Project Baby, equipped families of newborns with information and support. Issues addressed ranged from housing concerns, immigration, and childcare to medical insurance and breastfeeding. Led efforts to organize physical and digital resources and develop better record-keeping strategies to improve institutional memory.
- As a volunteer for the Asthma Swimming Program, helped low-income children learn the science behind their asthma and skills for managing it, including proper use of peak flow meters and inhalers, methods for avoiding triggers, and strategies for coping with asthma during exercise and stress. Taught the children to swim to help them get regular cardiovascular exercise to improve respiratory function and general physical fitness.
- As webmaster, redesigned the web site to facilitate information sharing and intra- and inter-program record keeping.

Boston Medical Center

Boston, MA, 2002-2003

- Examined national longitudinal and discharge surveys to find which could be used to study welfare reform and children's health.
- Investigated the connection between the health of mothers and the health of their children and whether or not the mothers' welfare status or health insurance coverage attenuates that relationship.

PUBLICATIONS:

Mantovani, A., Westin, G., Hirsch, J., and Lisanby, S.H. (2009). Functional Magnetic Resonance Imaging Guided Transcranial Magnetic Stimulation in Obsessive-Compulsive Disorder. *Biological Psychiatry*. DOI 10.1016/j.biopsych.2009.08.009.

Lisanby, S.H., Peterchev, A., Luber, B., Westin, G., and Spellman, T. (2009). Physiological optimization of TMS pulse shape and parameters for therapeutic applications: Controllable pulse shape TMS (cTMS) and magnetic seizure therapy (MST). *Abstracts of the 9th World Congress of Biological Psychiatry*, 28 June - 02 July, Paris, France. World Federation of Societies of Biological Psychiatry, 2009. DOI 10.3284/wfsbp.2009.1. Abstract # S-59-004, page 62.

Peterchev, A.V., Luber, B., Westin, G.G., Wager, T.D., and Lisanby, S.H. (2008). First human study of controllable pulse shape transcranial magnetic stimulation (cTMS): Effect of pulse width on corticospinal response and scalp sensation. *Am Coll Neuropsychopharmacol Ann Mtg Abstr*.

SKILLS: Certified in CPR instruction by the Red Cross, phlebotomy, SCID and TMS administration by the New York State Psychiatric Institute, and court/family mediation by the state of California. Significant computer expertise, from MATLAB and LabVIEW programming to web development. Languages: Japanese (advanced), Arabic (intermediate), and Spanish (basic).