



CURRICULUM VITAE  
**SARAH HUNG YING**

**DEMOGRAPHIC AND PERSONAL INFORMATION**

**Current Appointments**

Johns Hopkins University School of Medicine, Baltimore, MD  
Assistant Professor of Neurology  
Assistant Professor of Ophthalmology

**Personal Data**

Business Address: Pathology 2-210, 600 North Wolfe St, Baltimore, MD 21287  
Phone: (410) 955-3319  
Fax: (410) 614-1746  
Email: [sying@dizzy.med.jhu.edu](mailto:sying@dizzy.med.jhu.edu)

**EDUCATION AND TRAINING** (in chronological order)

<b>Year</b>	<b>Degree/Certificate</b>	<b>Institution</b>	<b>Discipline</b>
1987 - 1991	B.A.	Harvard-Radcliffe College Cambridge, MA	Biochemical Sciences Cum Laude
1991 - 1995	M.D.	Johns Hopkins University, School of Medicine Baltimore, MD	
1995 - 1997	Internship and Fellowship	Johns Hopkins Hospital Baltimore, MD	Internal Medicine
1997 - 2000	Residency	Barnes-Jewish Hospital St. Louis, MO	Neurology
2000 - 2002	Fellowship	University of California, Los Angeles Los Angeles, CA	Neuroimaging of Neurotology
2002 - 2003	Fellowship	Johns Hopkins University Baltimore, MD	Neurotology/ Neurophthalmology

## PROFESSIONAL EXPERIENCE (in chronological order)

Dates	Positions	Institution
2000 - 2002	Clinical Instructor of Neurology	University of California, Los Angeles Los Angeles, CA
2004 - present	Assistant Professor of Neurology Joint Appointment in Ophthalmology	Johns Hopkins University, School of Medicine Baltimore, MD

## RESEARCH ACTIVITIES

### Publications

Lee H, Whitman GT, Lim JG, Yi SD, Cho Yu, **Ying SH**, Baloh RW. Hearing symptoms in migrainous infarction. *Arch Neurol* 2003 Jan; 60(1): 113-6.

Lee H, Yi HA, Cho YW, Sohn CH, Whitman GT, **Ying SH**, Baloh RW. Nodulus infarction mimicking acute peripheral vestibulopathy. *Neurology* 2003 May 27; 60(10): 1700-2.

Baloh RW, **Ying SH**, Jacobson KM. A longitudinal study of gait and balance dysfunction in normal older people. *Arch Neurol.* 2003 Jun; 60(6): 835-9.

Joiner WM, Shelhamer MJ, **Ying SH**. Cerebellar Influence in Oculomotor Phase-Transition Behavior. *Ann NYAS* 2005. 1039: 536-9.

**Ying SH**, Choi SI, Lee M, Perlman SL, Baloh RW, Toga AW, Zee DS. Relative atrophy of the Flocculus and Ocular Motor Dysfunction in SCA2 and SCA6. *Ann NYAS* 2005 1039: 430-5.

**Ying SH**, Zee DS. Phoria adaptation after sustained symmetrical convergence: influence of saccades. *Exp Brain Res* 2005 Nov 24; 1-9.

**Ying SH**, Choi SI, Perlman SL, Baloh RW, Zee DS, Toga AW. Pontine and cerebellar atrophy correlate with clinical disability in SCA2. *Neurology* 2006 Feb 14; 66(3): 424-6.

Borchert, M. and **Ying SH**. 2003. Neurodegenerative Diseases of Ophthalmologic Significance, in *Pediatric Ophthalmology and Strabismus*. K. Wright and P. Spiegel [eds.].

**Ying SH**, Jen J, Baloh RW. Similar Oculomotor Phenotypes in Episodic Ataxia Type 2 and Spinocerebellar Atrophy Type 6, *Annals of the New York Academy of Sciences*. 2001.Oct; 942:508-9.

**Ying SH**, Alger JR, Rex DE, Pitiot A, Jen JC, Baloh RW, Iacoboni M, Mazziotta JC, Toga AW. Stochastic tomography, regional volumetric comparisons, and genotype-anatomical correlation in patients with spinocerebellar ataxia type 6 and episodic ataxia type 2. 31st Annual Meeting of the Society for Neuroscience, San Diego, November 10-15, 2001.

**Ying SH**, Ying HS, Zee DS. Sustained horizontal vergence alters phoria adaptation in normal human subjects. 33rd Annual Meeting of the Society for Neuroscience, New Orleans, November 8-12, 2003.

**Ying SH**, Alger JR, Lee MS, Pitiot A, Jen JC, Baloh RW, Perlman SL, Geschwind DH, Iacoboni M, Mazziotta JC, Toga AW. Cerebellar control of oculomotion in patients with neuronal calcium channel mutations: high resolution magnetic resonance imaging, genotype-phenotype correlation, and functional-anatomical correlation. 8th International Conference on Functional Mapping of the Human Brain, Sendai, Japan, June 2-6, 2002.

**Ying SH**, Lee M, Perlman SL, Jen JC, Baloh RW, Toga AW, Zee DS. Structural basis of eye movement abnormalities in spinocerebellar ataxia type 2. 9th International Conference on Functional Mapping of the Human Brain, New York, June 18-22, 2003.

**Ying SH**, Choi S, Lee M, Perlman SL, Jen JC, Baloh RW, Toga AW, Zee DS.. MRI study of eye movement control in hereditary ataxias. 56th Annual Meeting of the American Academy of Neurology, San Francisco, April 25-30, 2004.

**Ying SH**, Ying HS, Zee DS. Sustained Horizontal Vergence Alters Phoria Adaptation in Normal Human Subjects. Clinical and Basic Ocular Motor Research, Siena, July 3-5, 2004.

**Ying SH**, Choi S, Lee M, Perlman SL, Jen JC, Baloh RW, Toga AW, Zee DS. The flocculus in hereditary ataxia syndromes 23rd International Congress of the Barany Society, Paris, July 7-9, 2004.

**Ying SH**, Pham LV, Liu ASK, Rettmann ME, Han X, Prince JL. Use of the watershed algorithm in anatomically correct parcellation of the cerebellum. 35th Annual Meeting of the Society for Neuroscience, Washington, D.C., November 12-16 2005.

Landman BA, Chowdhury S, Sinofsky AH, Mori S, Zee DS, Prince JL, **Ying SH**. S-Image Representation of Diffusion Tensor Contrast and Fiber Geometry: Leukometric Analysis in the Brainstem and Cerebellum. 12th International Conference on Functional Mapping of the Human Brain, Florence, June 12-16, 2006.

Landman BA, Chowdhury S, Sinofsky AH, Mori S, Zee DS, Prince JL, **Ying SH**. Delineation of Cerebellar Fiber Tracts on Anatomically Aligned Planes with ViPAR, a Novel MRI Visualization and Manipulation Tool. 12th International Conference on Functional Mapping of the Human Brain, Florence, June 12-16, 2006.

Choi SI, Sinofsky AH, Landman BA, Perlman SL, Baloh RW, Zee DS, Toga AW, Prince JL, **Ying SH**. Volumetric Analysis of Cerebellar Subregions and Functional Correlations in Spinocerebellar Ataxia Type 2 (SCA2). 12th International Conference on Functional Mapping of the Human Brain, Florence, June 12-16, 2006.

Sinofsky AH, Landman BA, Chowdhury S, Gambini A, Mori S, Zee DS, Prince JL, **Ying SH**. Diffusion-weighted MR imaging of the cerebellar peduncles as a surrogate measure of cerebellar degeneration. 12th International Conference on Functional Mapping of the Human Brain, Florence, June 12-16, 2006.

Wheeler MB, Landman BA, Choi SI, Sinofsky AH, Zee DS, **Ying SH**, Prince JL. MR CAVE: Multi-atlas Robust Cerebellar Automated Volume Estimation. 12th International Conference on Functional Mapping of the Human Brain, Florence, June 12-16, 2006.

**Inventions, Patents, Copyrights (pending, awarded)  
Extramural Funding (current, pending, previous)**

<b>Dates</b>	<b>Title / ID#</b>	<b>Sponsor</b>	<b>PI</b>
12/01/2000 - 11/30/2001	Training Program in Neuroimaging 5-T32-MH019959-08	NIH/NIMH	Arthur Toga
07/01/2002 - 12/31/2003	Training Program in Auditory Neurophysiology Ruth L. Kirschstein National Research Service Award 5-T32-DC000023-20	NIH/NIDCD	Murray Sachs
01/01/2004 - 12/31/2004	Clinician Scientist Award	Johns Hopkins University	Sarah Ying
07/01/2004 - 06/30/2006	2004 Young Investigator Award	National Alliance for Research on Schizophrenia and Depression	Sarah Ying
01/01/2005 - 12/31/2007	Dana Foundation Program in Brain and Immuno- Imaging	Dana Foundation	Sarah Ying
09/30/2005 - 09/29/2010	Ocular motor control and MRI in hereditary ataxia 1 K23 EY015802-01A1		Sarah Ying
01/19/2006 - 12/31/2009	Cortical Reconstruction and Analysis Software 1 R01 NS054255-01		Dzung Pham
05/10/2006 - 02/28/2011	Automatic Cerebellar MRI Labeling in Health and Disease 1 R01 NS056307-01		Jerry Prince

## Research Program Building / Leadership

### EDUCATIONAL ACTIVITIES

#### Educational Publications

Editorial Board Appointments Osler Medical Journal, Section Editor

Journal peer review activities Cerebellum  
Neurology  
Annals of Neurology  
Cerebral Cortex  
Brain

#### Teaching

#### Mentoring (pre- and post-doctoral)

Date	Advisee Name	Degree	Role	Awards earned while under mentorship	Present Position
2001 - 2002	Mimi Lee	B.S., M.S.	Research Assistant		University of Chicago School of Medicine
2003	Luu Pham		Senior Design Project Student		University of Virginia School of Medicine
2003	Aylin Eroglu	M.D.	Research Assistant		Clinical and research duties in Turkey
2003 - 2004	Caelan Johnson	B.A.	Undergraduate Research Assistant		
2003 - 2004	Kesha Oza		Undergraduate Research Assistant		
2003	Wunmi Fajobi		Undergraduate Research Assistant		
2003 - 2004	Martin Lo		Undergraduate Research Assistant		
2004	Andrew Liu			Provost's Undergraduate Research Award, student of Dr. Jerry Prince	
2004	Priscilla Pang		Undergraduate Research Assistant		

2004	Rudra Barua	B.A.	Post-baccalaureate Research Assistant	
2004	Jennifer Guo		Undergraduate Research Assistant	
2004	Ian Lee		Undergraduate Research Assistant	
2004	Jennifer Bai		Undergraduate Research Assistant	
2004	Estella Ramirez		Undergraduate Research Assistant	
2005	Gaganpreet Grewal		Undergraduate Research Assistant	
2005	Elliot Kwong		Undergraduate Research Assistant	
2005	Nicole Kearney		Undergraduate Research Assistant	
2005	Javier Russo		Undergraduate Research Assistant	
2006	Shwetadwip Chowdry		High School Summer Student	Montgomery Blair High School student of Dr. Jerry Prince semi-finalist
2006	Steven Shu		Undergraduate Research Assistant	
2006	Amanda Bigaouette		Undergraduate Research Assistant	
2006	Zhuo Geng		Undergraduate Research Assistant	

## CLINICAL ACTIVITIES

### Certification

- **Medical**

<b>Board</b>	<b>Dates</b>	<b>Identification #</b>
Medical Board of California	2000 - 2002	
Medical Board of Maryland	2004 - present	

- **Boards**

<b>Board</b>	<b>Dates</b>	<b>Identification #</b>
American Board of Psychiatry and Neurology	2002	

- **Clinical (Service) Responsibilities**

<b>Dates</b>	<b>Specialty</b>	<b>Role</b>	<b>Time commitment</b>
		Consult service attending	1 month per year

## ORGANIZATIONAL ACTIVITIES

### Institutional Administrative Appointments

<b>Dates</b>	<b>Appointment</b>
1999-2000	Barnes-Jewish Hospital Graduate Medical Education Housestaff Advisory Committee
2005-present	Johns Hopkins University School of Medicine Admissions Committee

## RECOGNITION

<b>Date</b>	<b>Title</b>	<b>Description</b>	<b>Sponsor</b>
1987	China Times Cultural Foundation Scholar	Scholarship for undergraduate studies	China Times Cultural Foundation
1987	Chinese Medical and Health Association Scholarship	Scholarship for undergraduate studies	Chinese Medical and Health Association
1989	Travel Award	Visit to scientific research partners in Munich and Rome	Research Science Institute
1989	Research Grant	Scholarship for research at the Centre National de la Recherche Scientifique	Fondation Maxwell de l'Academie des Sciences
1991	Elizabeth C. Agassiz Award	Recognition of academic achievement	Radcliffe College

1991	Harvard College Scholarship	Recognition of academic achievement	Harvard College
1991	Honors in Biochemical Sciences	Recognition of academic achievement	Harvard-Radcliffe College
1992	Dean's Research Award	Scholarship for research in oculomotor studies	Johns Hopkins University
1999	National Cerebrovascular Stroke Fellowship	Update on stroke management	
2004	Johns Hopkins Medical Institutions Clinician Scientist Award	Research grant	Johns Hopkins Medical Institutions
2004	"Rehabilitative Strategies in Ataxia"	Invited Talk	Howard County Ataxia Support Group, National Ataxia Foundatoin