

# CURRICULUM VITAE

**Ray H. Hashemi, M.D., Ph.D.**

**Diplomate American Board of Radiology**

## **OFFICE**

**ADVANCED IMAGING CENTER, Inc.**

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## **EMPLOYMENT HISTORY**

Director, ADVANCED IMAGING CENTER, Lancaster, CA	1/98-Present
Medical Director, Bay Harbor MRI & Diagnostic Center, Harbor City, CA	7/95-3/98

## **LICENSURE/CERTIFICATION**

<i>CA Medical License</i>	1991	<i>X-Ray Supervisor</i>	1991
<i>DEA</i>	1991	<i>Board Certification (ABR)</i>	1994
<i>Citizenship</i>	U.S.A.		

## **EDUCATION**

<i>M.D.</i>	University of Miami School of Medicine	June 1989
<i>Ph.D.</i>	Electrical & Computer Engineering University of California at Santa Barbara (UCSB)	Dec. 1985
<i>M.S.</i>	Electrical & Computer Engineering University of California at Santa Barbara (UCSB)	Apr. 1983
<i>B.S.</i>	Electrical & Computer Engineering ( <i>with highest honors</i> ) University of California at Santa Barbara (UCSB)	Mar. 1982

## **POSTGRADUATE TRAINING**

<i>Fellowship (MRI)</i>	Memorial MRI, Long Beach Memorial Medical Center, Long Beach, CA <i>Director: William G. Bradley, Jr., MD, PhD, FACR</i>	7/94-7/95
<i>Residency/Internship</i>	Diagnostic Radiology, Kaiser Medical Center, LA, CA	1989-1994
<i>Other rotations</i>	Children's Hospital (6 months), UCLA (3 months), USC (3 months)	1990-1994
<i>AFIP</i>	A six-week didactic course in radiologic-pathologic correlation in Washington, D.C.	Aug. 1991

**RADIOLOGY SKILLS**

MRI (neuro, musculoskeletal, body, pediatrics); MR angiography; MR arthrography; MR fluoroscopy; MR Myelography; MR Urography; MR CholangioPancreatography (MRCP); CT (multi-detector); CT Angiography; ultrasound; mammography; nuclear medicine; pediatric radiology; neuroradiology; General radiography and fluoroscopy; arthrography; vascular imaging; interventional radiology.

**RESEARCH EXPERIENCE**

<i>Fellow</i>	Long Beach Memorial MRI Center <i>Director: William G. Bradley, Jr., M.D., Ph.D., FACR</i>	9/94-5/95
	Investigating the high sensitivity of the Fast Fluid Attenuated Inversion Recovery (Fast-FLAIR) MRI technique in detecting MS plaques in the brain and compared it to the conventional Spin Echo technique.	
<i>Senior Engineer</i>	TAU Corporation 485 Alberto Way, Los Gatos, CA 95030	10/86-5/87
	A "high-tech" company in the San Francisco "Silicon Valley" area; applied advanced computer-aided estimation and signal processing techniques to develop a new navigation system.	

**TEACHING EXPERIENCE**

<i>MRI</i>	Long Beach Memorial MRI Center	9/94-6/95
<i>Fast Scanning</i>	Lectures on Fast MR Scanning given at the visiting fellowship course at LBMMR Center every month.	
<i>MRI Physics</i>	Kaiser Medical Center, LA, CA (14 videotaped lectures on MRI physics)	1/93-8/93
<i>Assistant Professor</i>	Dept. of Elect. & Comp. Engineering, UCSB	1/86-6/86

**PROFESSIONAL AFFILIATIONS**

- ✍ American College of Radiology (ACR)
- ✍ Radiologic Society of North America (RSNA)

**ACADEMIC HONORS**

<i>Chief Resident</i>	Radiology Residency, Kaiser Medical Center	7/92-7/93
<i>In-service exams</i>	Diagnostic Radiology: 98% (Feb. 1991), 99% (Feb. 1992), 98% (Feb. 1993)	
<i>Graduate Scholarship</i>	University of California Regents Graduate Scholarship	1982-1985
<i>Undergrad Honors</i>	UCSB, College of Engineering, Dean's Honors List, continuously for 4 years	1979-1982
<i>GPA 4.0/4.0</i>	Maintained a straight 4.0 Grade Point Average at UCSB form 1979 through 1985.	

**COMMUNITY SERVICE**

Involved with various charity organizations, especially those helping disadvantaged children.

## PUBLICATIONS

### BOOKS

- 1 Hashemi RH, Bradley WG, Lisanti C. *MRI: The Basics, 2<sup>nd</sup> edition*. Williams & Wilkins; 2004 (a comprehensive textbook/handbook on MRI basics and recent advances covering the basic concepts to more advanced topics such as fast scanning techniques and MR Angiography in 353 pages and over 400 illustrations and images).
- 2 Hashemi RH and Bradley WG. *MRI: The Basics*. Williams & Wilkins; 1997. 307 pages.

### PERIODICALS

- 1 “**PHYSICIAN NEWS**”: A periodical newsletter covering various topics in radiology, designed for non-radiologist doctors. Published one or twice a month by Advanced Imaging Center, Lancaster, CA. 1998-Present.

### RADIOLOGY PRESENTATIONS

- 1 “**AIC FUN PRESENTATIONS**”: An entertaining clinical-radiological presentation covering various topics in radiology with clinical correlation, designed for non-radiologist doctors. Offered monthly or bimonthly by Advanced Imaging Center, Lancaster, CA. Feb. 2004-Present.

### ARTICLES

- 1 Hashemi RH, Bradley WG, et al. Suspected Multiple Sclerosis: MR Imaging with a Thin-Section Fast FLAIR Pulse Sequence. *Radiology* 1995; 196:505-510.
- 2 Atkinson DJ, Chen DY, Bradley WG, Mullin WJ, and Hashemi RH, "High Resolution Quantification Assessment of Aqueductal CSF Motion by Phase Contrast MRI Techniques: Correlation with Pulsatile Flow Phantom," submitted to *Radiology*, 1995.
- 3 Roy S, Hashemi RH, and Laub AJ, "Square-Root Parallel Kalman Filtering using Reduced-Order Local Filters," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. 27, 1991, pp. 276-289.
- 4 Hashemi RH and Rhodes IB, "Decentralized Sequential Detection," *IEEE Transactions on Information Theory*, Vol. 35, No. 3, May 1989, pp. 509-520.
- 5 Hashemi RH and Laub AJ, "Kalman Filtering for Second-Order Models," *AIAA Journal of Guidance and Control*, Vol 11, No. 2, Mar.-Apr. 1988, pp. 181-186.
- 6 Hashemi RH and Laub AJ, "On the Suboptimality of a Parallel Kalman Filter," *IEEE Transaction on Automatic Control*, Vol. 33, No. 2, Feb. 1988, pp. 214-217.
- 7 Hashemi RH, Roy S, and Laub AJ, "Decentralized Structures for Parallel Kalman Filtering," *IEEE Trans. on Automatic Control*, Vol. 33, No. 1, Jan. 1988, pp. 88-93.
- 9 Hashemi RH and Rhodes IB (*Invited Session*), "Decentralized Dynamic Decision Making," *Proceedings of the 26th IEEE Conference on Decision and Control*, Los Angeles, CA, Dec. 1987, pp. 1836-1841.
- 10 Hashemi RH, Roy S, and Laub AJ, "Decentralized Structures for Parallel Kalman Filtering," *Proceedings of the 10th World Congress of the International Federation of Automatic Control*, Munich, W. Germany, July 1987.

## ABSTRACTS/PRESENTATIONS

- 1 Hashemi RH, Bradley WG, *et al.*, "MR Imaging of Suspected Multiple Sclerosis Using a 2mm Sagittal Fast-FLAIR Pulse Sequence," presented at the *ASNR*, Chicago, April 1995 (paper 186, p. 105).
- 2 Atkinson DJ, Bradley WG, Chen DY, Moreau D, Hashemi RH, *et al.*, "3D Turbo Spin Echo Imaging of the Cervical Spine," presented at the *ASNR*, Chicago, April 1995 (paper 232, p. 129).
- 3 Atkinson DJ, Bradley WG, Chen DY, Moreau D, Hashemi RH, *et al.*, "Optimization of 3D Carotid MR Angiography with High Performance Gradients," presented at the *ASNR*, Chicago, April 1995 (paper 53, p. 41).
- 4 Mullin WJ, Atkinson DJ, Hashemi RH, Yu J, and Bradley WG "CSF Flow Quantification: Comparison of three measurement methods, *Annual Mtg. of Magnetic Resonance Imaging*, 1993, p. 55 (presented at the *Society of Magnetic Resonance Imaging*, San Francisco, Mar. 1993).
- 5 "Imaging of Right Lower Quadrant Pathology," with Rooholamini SA, Razavi M, Vickers R, Au AH, Wong LC, Saul R, and Kadell BM, *93rd Annual Mtg. of Amer. Roentgen Ray Society*, Apr. 1993, p. 154 .
- 6 "CT Evaluation of Small Bowel Tumors," with Saul R, Au AH, Honda H, Franken EA, *et al.*, Poster Presentation at *RSNA*, Chicago, Nov. 1992 (also submitted to the *American Roentgen Ray Society*).
- 7 "Fibrous Tumors of the Abdomen," with Vickers R, Au A, Rooholahmini S, Saul R, *et al.*, submitted to the 93rd Annual Mtg. of the *American Roentgen Ray Society*, 1993.
- 8 Hashemi RH, Roy S, and Laub AJ (*Invited Session*), "Parallel Structures for Kalman Filtering (*Invited Session*)," *Proceedings of the 26th IEEE Conference on Decision and Control*, Los Angeles, CA, Dec. 1987, pp. 1476-1481.