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## CURRICULUM VITEA

### BEHZAD MANSOURI M.D. Ph.D.

#### University of Manitoba

Neurology Resident,  
Department of Internal Medicine, Neurology Division,  
820 Sherbrook St., Health Science Center,  
Winnipeg, Manitoba, R3A 1R9, Canada  
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- Education
- Neurology resident since 2008, University of Manitoba, Winnipeg, Canada
  - Post-doctoral fellowship 2005-2008, Department of Ophthalmology, McGill University, Montreal, Canada
  - Ph.D. 2001-2005, Department of Neurology and Neurosurgery, Neuroscience program, McGill University, Montreal, Canada
  - M.D. 1991-1998, Tehran University of Medical Sciences, Tehran, Iran
  - High School 1987-1991, National Organization for Development of Exceptional Talent, Tehran, Iran
- Publications
1. **Integration of first- and second-order orientation;** Allen HA, Hess RF, Mansouri B, Dakin SC, Journal of the Optical Society of America A, 2003 Jun; 20(6): 974-86
  2. **Integration of orientation information in amblyopia;** Mansouri B, Allen HA, Hess RF, Dakin SC, Ehrt O, Vision Research. 2004 Nov; 44(25): 2955-69
  3. **Integration, segregation, and binocular combination;** Mansouri B, Allen HA, Hess RF, Dakin SC, Journal of the Optical Society of America A, 2005 Jan; 22(1): 38-48
  4. **Detection, discrimination and integration of second-order orientation information in amblyopia;** Mansouri B, Allen HA, Hess RF, Vision Research. 2005 Jun; 45(18): 2449-2460
  5. **The extent of the dorsal extra-striate deficit in amblyopia;** Simmers AJ, Ledgeway T, Mansouri B, Hutchinson CV, Hess RF, Vision Research. 2006 Aug; 46(16): 2571-80
  6. **Integration of local motion is normal in amblyopia;** Hess RF, Mansouri B, Dakin SC, Allen HA, Journal of the Optical Society of America A, 2006 May; 23(5): 986-92

7. **The global processing deficit in amblyopia involves noise segregation;** Behzad Mansouri, Robert F. Hess, Vision Research. 2006 Nov; 46(24): 4104-17
8. **Cortical deficits in human amblyopia: their regional distribution and their relationship to the contrast detection deficit,** Li X, Dumolin S, Mansouri B, Hess RF, Investigative Ophthalmology and Visual Sciences. 2007 Apr; 48(4): 1575-91
9. **The fidelity of the cortical retinotopic map in human amblyopia;** Xi L, Dumolin S, Mansouri B, Hess RF, European Journal of Neuroscience, Vol. 25, pp. 1265–1277, 2007
10. **Binocular influences on global motion processing in the human visual system;** Hess RF, Hutchinson CV, Ledgey T, Mansouri B, Vision Res. 2007 Jun;47(12):1682-92. Epub 2007 Apr 17
11. **Variance discrimination in amblyopia;** Mansouri B, Allen HA, Hess RF, J Opt Soc Am A Opt Image Sci Vis. 2007 Sep; 24(9):2499-504
12. **Binocular Summation of Contrast Remains Intact in Strabismic Amblyopia;** D. Baker, T. Meese, B. Mansouri, R. Hess, Investigative Ophthalmology and Visual Sciences. 2007 Oct; 48: 5332-5338
13. **Brain Plasticity in the Adult: restoration of function in amblyopia using Repetitive Transcranial Magnetic Stimulation (rTMS);** B. Thompson, B. Mansouri, L. Koski, R. Hess, Curr Biol. 2008 Jul 22;18(14):1067-71
14. **Coherence and transparent moving plaids in amblyopia;** Thompson B, Stockdale CA, Mansouri B, Hess RF, Vision Res. 2008, May;48(11): 1307-14.
15. **Measurement of suprathreshold binocular interactions in amblyopia;** B. Mansouri, B. Thompson and R. F. Hess, Vision Res. 2008 Dec;48(28):2775-84
16. **Distorted mapping in amblyopia;** Mansouri B, Hansen B, Hess RF, Journal of Vision (in press)
17. **Latent stereopsis for motion-in-depth in strabismic amblyopia;** Hess RF Mansouri B, Thompson B, Gheorghia E, (submitted)

Grants

- **2008 Sep, “Novel portable treatment device for lazy eye”, 120,250.00\$ NSERC I2IPJ, Cooperstock J, Hess R, Mansouri B, Thompson B**
- **2009 Jan, “Assessment and Treatment of Binocular Vision in Amblyopia”, 126,802.00\$, CIHRPOPI, Hess R, Mansouri B, Thompson B**

Patents

- Provisional: Binocular Vision Assessment or Therapy (registration number 37796/23-10-2007)
- Provisional: Apparatus and Method for treating a cortical-based visual disorder using delivery of transcranial magnetic stimulation (TMS) to the visual cortex of a patient (registration number 58225/14-11-2007)

Theses	<ul style="list-style-type: none"> <li>• <b>Integration of spatial and motion information in amblyopia (Ph.D. Thesis), 2005;</b> Mansouri B, McGill University Library</li> <li>• <b>Epidemiology of Goiter and its dependant variants and affecting factors amongst young girls aged between 12 and 18 years old (M.D. Thesis), 1997;</b> Mansouri B, Modirrousta M, Tehran medical school library</li> </ul>
Reviewer	<ul style="list-style-type: none"> <li>• Journal of Vision (JOV)</li> <li>• Investigative Ophthalmology and Visual Sciences (IOVS)</li> </ul>
Professional Affiliations	<p><b>2008 Canadian Neurology Association</b></p> <p><b>2003</b> Society for Neuroscience, USA</p> <p><b>2001</b> The Association for Research in Vision and Ophthalmology, USA</p> <p><b>2001</b> Vision Sciences Society, USA</p> <p><b>1998</b> Medical Doctors Association, Iran</p>
Teaching Experiences	<ul style="list-style-type: none"> <li>• <b>Teaching Assistant 2004-2006,</b> Neuroanatomy course (lab), Faculty of Medicine, McGill University, Montreal, Canada</li> <li>• <b>Teaching Upper Respiratory Track Infections</b> 2000, Gilan Medical University, Roodsar, Gilan, Iran</li> <li>• <b>Teaching computer programming (part-time),</b> Algorithm, FoxPro, Basic plus, Logo 1989-1995, IBM, Tehran, Iran (24 hours per week)</li> </ul>
Work Experiences	<p><b>Post doctoral fellow, Vision Research Unit, Ophthalmology Department, McGill University, Since 2005</b></p> <p><b>Graduate Student Research Assistant, Vision Research Unit, Ophthalmology Department, McGill University 2001-2004</b></p> <p><b>Research Assistant (part-time) 2000-2001, Mazandaran Medical University Medical University, Sari, Iran</b></p> <p><b>General Practitioners and Researcher 2000-2001, Khodrosazan Company, Tehran, Iran</b></p> <p><b>Clinical director and General Practitioner, Siahkalrood, Gilan, Iran, Health and Medical Education Ministry of Iran, Gilan Medical University, Gilan, Iran, 1998-2000</b></p>
Clinical Experience	<p><b>Clinical observer-ship (3 weeks), Ophthalmology Department, McGill University, 2006</b></p> <p><b>Clinical observer-ship (2 weeks), Neurology Department, McGill University, 2005</b></p> <p><b>Clinical director and General Practitioner, Siahkalrood, Gilan, Iran, Health and Medical Education Ministry of Iran, Gilan Medical University, Gilan,</b></p>

**Iran, 1998-2000**

**General Practitioners 2000-2001, Khodrosazan Company, Tehran, Iran**

- Medical internship 1996-1998, Duties: Examining, diagnosing, and treating patients under the supervision of academic faculty members (Neurology, Neurosurgery, General Surgery, Psychiatry Orthopedics, Urology, Internal Medicine, Gynecology & Obstetrics, Heart diseases, Pediatrics, ENT, Ophthalmology, Dermatology and Family Medicine), in more than 15 hospitals and visiting more than 2000 patients, Tehran Medical School, Tehran, Iran (40 hours per week including 8-10 night shifts in month). Researching how computer and artificial intelligence could be applied in medicine
- Medical externship 1993-1996, Duties: Working with Hospital attending professor in various wards (Neurology, General Surgery, Orthopedics, Urology, Internal Medicine, Gynecology & Obstetrics, Heart diseases, Pediatrics, ENT, Ophthalmology, Dermatology, Psychiatry and Clinical Hygiene) in different hospitals, Tehran Medical School, Tehran, Iran (40 hours per week)

Languages

**Farsi:** Written: Excellent Spoken: Excellent (Maternal language)

**English:** Written: Excellent Spoken: Excellent

**French:** Written: Good Spoken: Good

**Turkish:** Written: Good Spoken: Good

**Arabic:** Written: Fair Spoken: Fair

Licenses & Certificates

Medical License from Medical Council of Iran 1998

Medical License from Medical Council of Canada 2007

Transcranial Magnetic Stimulation Application Certificate 2007 (McGill University Health Center TMS laboratory)

Tests

**2007 United State Medical Licensing Examination STEP I (Basis Sciences):** Pass

**2006 United State Medical Licensing Examination II (Clinical Skill):** Pass

**2007 Medical Council of Canada Qualification Exam II:** Pass

**2005 Medical Council of Canada Qualification Exam I:** Pass

**2004 Medical Council of Canada Evaluating Exam:** Pass

**2000 TOEFL TOTAL = 267/300 (Listening = 26/30 Structure & Writing = 24/30 Reading 30/30) TWE = 4.5/6**

**2000 GRE Quantitative = 780 Analytical = 710 Verbal = 320**

Experimental Techniques &

I am familiar with following research techniques and computer programs:

Computer  
Programming

1. Psychophysics
2. Eye tracking
3. fMRI imaging and data analysis (Brain Voyager)
4. Transcranial Magnetic stimulation (TMS)
5. Matlab and Psychophysics toolbox
6. Windows and Microsoft office
7. Fortran, Basic and FoxPro (concept of database programming)

Honors and  
awards

**2005 The Best Graduate Student Basic Science Presentation Award**,  
Department of Ophthalmology, McGill University, Montreal, Canada

**2001** Tuition fee waiver, McGill University

**1989** rank **83<sup>rd</sup>** in Iran Mathematical Olympiad

**1990** rank **3<sup>rd</sup>** in Iran Karate competition

**1991** Amongst the top graduates of “**Gifted & Talented Education High School**”

**1991** rank **113<sup>th</sup>** amongst **800,000** participants, University national entrance exam

Abstract  
publication

**Dichoptic Motion Integration in Amblyopia**

B. Mansouri, B. Thompson, T. Ledgeway and R. F. Hess SFN 2007

**New adventures in improving residual vision in amblyopia**, Mansouri B,  
Thompson B, Hess RF McGill Ophthalmology Clinical and Scientific Research Day  
2007

**Monocular, binocular and dichoptic masking in strabismic amblyopia**,  
Daniel H Baker, Tim S Meese, Behzad Mansouri & Robert F Hess; Perception  
2006

**Spatial frequency-dependence of the cortical deficit in human amblyopia  
(fMRI study)**, Li XF, Mansouri B, Hess RF, 37<sup>th</sup> Annual meeting of Society for  
Neuroscience SFN 2006

**Within-voxel variability of the hemodynamic response function of early  
visual areas in amblyopes**, Mansouri B, Farivar R, Li XF, Hess RF, 37<sup>th</sup> Annual  
meeting of Society for Neuroscience SFN 2006

**Temporal aspects of stereopsis revealed by dynamic random-dot  
stereograms**, Oliver KM, Gheorghiu E, Mansouri B, Hess RF. McGill  
Ophthalmology Clinical and Scientific Research Day 2006

**Biological motion in amblyopia**, Hess RF, Mansouri B, Wastson R, Leitz G,  
McGill 2006

**A disrupted retinotopic map in amblyopia**, Mansouri B, Hess RF, VSS 2006

& McGill Ophthalmology Clinical and Scientific Research Day 2006

**Signal segregation not signal integration is abnormal in amblyopia,** Mansouri B, Hess RF, 78<sup>th</sup> Annual meeting of the Association for Research in Vision and Ophthalmology ARVO 2006

**Amblyopic suppression: all-or-none or graded?** Mansouri B, Hess RF, European Conference on Visual Perception, 2005

**Regions of spared cortical function in human amblyopia (fMRI study),** Li X, Dumolin S, Mansouri, B, Hess RF, 36<sup>th</sup> Annual meeting of Society for Neuroscience SfN, 2005

**Integration of global information in amblyopia; the role of signal and noise,** Mansouri B, Hess RF, McGill Ophthalmology Clinical and Scientific Research Day 2005

**Variance discrimination in amblyopia,** Mansouri B, Allen HA, Hess RF, 5<sup>th</sup> annual meeting of Vision Sciences Society VSS, 2004

**Integration of second-order information in amblyopia,** Mansouri B, Allen HA, Hess RF, Dakin SC., 77<sup>th</sup> Annual meeting of the Association for Research in Vision and Ophthalmology ARVO, 2004

**Integration of global information in amblyopia and the effect of noise,** Mansouri B, Allen HA, Hess RF, Dakin SC, 34<sup>th</sup> Annual meeting of Society for Neuroscience SfN, 2004

**The site of orientation integration,** Mansouri B, Allen H, Hess RF, Dakin SC, McGill Ophthalmology Clinical and Scientific Research Day 2004

**Amblyopes can integrate second-order orientation information across space,** Mansouri B, Allen HA, Hess RF, Dakin SC, 33<sup>rd</sup> Annual meeting of Society for Neuroscience SfN, 2003

**The site of orientation integration,** Mansouri B, Allen HA, Hess RF, Dakin SC, 4<sup>th</sup> Annual meeting of Vision Sciences Society VSS, 2003

**Spatial integration of second-order orientation in amblyopes,** Mansouri B, Allen HA, Hess RF, Dakin SC, Ehrh O., 76<sup>th</sup> Annual meeting of the Association for Research in Vision and Ophthalmology ARVO, 2003

**Integration of first- and second-order orientation,** Allen HA, Hess RF, Mansouri B, Dakin SC., 3<sup>rd</sup> Annual meeting of Vision Sciences Society VSS 2003

**Integration of first-order orientation in amblyopia,** Mansouri B, Allen HA, Hess RF, Dakin SC, Ehrh O., 33<sup>rd</sup> Annual meeting of Society for Neuroscience SfN, 2003

**Amblyopes can combine information across space,** Mansouri B, Allen HA, Hess RF, Dakin SC, Ehrh O., 75<sup>th</sup> Annual meeting of the Association for Research in Vision and Ophthalmology ARVO, 2002

Additional

**2004 Advances in visual perception,** Department of Psychology, McGill University, Montreal, Canada

courses

**2002 Statistics in Neurosciences**, Department of Psychology, McGill University, Montreal, Canada

**2001 Principles of Neuroscience I**, Department of Neurology and Neurosurgery, McGill University, Montreal, Canada

**1995 Homeopathy**, one-month course. Tehran University, Tehran, Iran.

**1994 Applicability of Computers in Medicine** twelve-month course, Tehran University. Tehran, Iran.

**1993 Usage of Hypnosis in Medicine**, two-month course, Tehran University, Tehran, Iran.

**1990 Microprocessors**, four-month course, Sharif University, Tehran, Iran.

**1989 Logical Circuits**, twelve-month course, Sharif University, Tehran, Iran

Presentations

**2006 Oral presentation:** "A disrupted retinotopic map in amblyopia", McGill Ophthalmology Clinical and Scientific Research Day 2006

**2005 Oral presentation:** "Amblyopia suppression, all-or-non or graded?" ECVF, La Coruna, Spain.

**2005 Oral presentation:** "Integration of global information in amblyopia; the role of signal and noise", McGill Ophthalmology Clinical and Scientific Research Day 2005

**2004 Oral presentation:** "Integration of global information in amblyopia and the effect of noise", Neuroscience meeting, San Diego, USA.

**2004 Poster presentation: (McGill Day)** "Variance discrimination in amblyopia", Ophthalmology Department, McGill University, Montreal, Canada.

**2004 Poster presentation:** "Variance discrimination in amblyopia", VSS (Vision Sciences Society), Sarasota, USA.

**2003 Poster presentation:** "Detection, discrimination and integration of second-order orientation information in amblyopia", Neuroscience meeting, New Orleans, USA.

**2003 Poster presentation: (McGill Day)** "The site of orientation integration", Ophthalmology Department, McGill University, Montreal, Canada.

**2003 Oral presentation (McGill Day)** "Detection, discrimination and integration of second-order orientation information in amblyopia", Ophthalmology Department, McGill University, Montreal, Canada.

**2003 Poster presentation** "The site of orientation integration", VSS (Vision Sciences Society), Sarasota, USA.

**2002 Abstract accepted:** "Integration of second-order orientation information in amblyopia", ARVO (The Association for Research in Vision and Ophthalmology), Fort Lauderdale, USA.

**2002 Abstract accepted:** "The site of orientation integration", VSS (Vision Sciences Society), Sarasota, USA.

**2002 Oral presentation (McGill Day) "Integration of orientation information in amblyopia"**, Ophthalmology Department, McGill University, Montreal, Canada.

**2002 Oral presentation: "Amblyopes can combine information across space"**, ARVO (The Association for Research in Vision and Ophthalmology), Fort Lauderdale, USA.

**2002 Poster presentation in VSS, "Spatial integration of second-order orientation"**, VSS (Vision Sciences Society), Sarasota, USA.

**2000 Oral presentation, "Medication Side-effects in 100 Epileptic patients in Gilan, North of Iran"**, Gilan Medical University, Gilan, Iran.

**1997 Oral presentation and thesis defence:** "Epidemiology of Goitre and its dependant variants and affecting factors amongst young girls aged between 12 and 18". (Score: 20 / 20) Tehran Medical School, Tehran, Iran.

**1991 Lecture series on "Memory cells in immunology"**. Tehran Medical School, Tehran, Iran.

Medical  
Research  
Experiences

**2001-2005 Psychophysics and Amblyopia:** A multidisciplinary approach (i.e. imaging (fMRI), psychophysical experiments) to investigate the visual deficiency in amblyopia (lazy eye). McGill Vision Unit, McGill University, Montreal, Canada.

**2000-2001 Cognitive Neuroscience and Psychophysics:** Visual Perception Research (Reaction-Time and Shape perception). Shahid Beheshti Medical University, Tehran, Iran.

**1999-2000 Medication side effects in 100 epileptic patients**, Gilan Medical University, Gilan, Iran.

**1995-1997 Epidemiology of Goiter and its dependant variants and affecting factors** amongst young girls aged between 12 and 18, Tehran Medical University, Tehran Iran.

**1990-1995 Neuroscience** related subjects, group study and research. Tehran Medical University, Tehran Iran

Extra-  
curricular  
activities

**Teaching and coaching Karate (part-time) 1990-2000**

**Since 2004 Political activist**

**Since 2005 Learning Guitar**

**Since 1991 Coaching Karate**

**Voluntarily participation in McGill day care programs 2003–2005**

**Member of Board of Directors, House of Iran in Montreal, Canada Since 2005**

**Vice-president, McGill Iranian Student Association 2005-2006**

**Member of Board of Directors, “Dehkhoda” elementary school, Montreal, Canada 2004–2005**

**Teacher (part-time) “Dehkhoda” elementary school, Montreal, Canada 2004–2005**

Translating “Computer in Medicine” book from English to Farsi 1993

Leaning Setar (Persian traditional musical instrument) 1993-1996

Persian traditional singing 1989-1996

Karate, Black Belt DAN 1, 1989

Karate, Black Belt DAN 2, 1991

Research on “British Industrial revolution” 1987

Research on “Max Weber & Carl Popper’s theories” 1986

Research on “Persian Carpet” 1985

Hobbies

Volunteer social activities

Sport: Karate, Soccer, Tennis, Swimming, Mountain climbing

References

Dr. Robert Hess Ph.D. D.Sc. Director of Research, Department of Ophthalmology

Professor, McGill University, 687 Pine Avenue West, H4-14, Montreal Canada H3A1A1, [robert.hess@mcgill.ca](mailto:robert.hess@mcgill.ca)

Dr. Miguel N. Burnier Jr. M.D., Ph.D. Chair, Department of Ophthalmology

Professor Ophthalmology, Pathology, Medicine, Anatomy & Cell Biology.  
Chief of Ophthalmology, MUHC & JGH.

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Dr. Alireza Esteghamati M.D.

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