

AMIR RAZ

Curriculum Vitae

Contact Information

Clinical Neuroscience and Applied Cognition Laboratory

Institute of Community & Family Psychiatry at the SMBD Jewish General Hospital
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Education

Post-doctoral Training:

Weill Medical College of Cornell University, New York, NY, USA 2002

Sackler Institute for Developmental Psychobiology, Department of Psychiatry

Supervisor: Michael I. Posner

Graduate:

Ph.D., Brain Science: Computation and Information Processing, 2000

M.Sc., Brain Science: Computation and Information Processing, 1997

Hebrew University of Jerusalem, Israel

Interdisciplinary Center for Neural Computation and Department of Psychology

Supervisor: Shlomo Bentin

Undergraduate:

B.Sc., Computer Science, *summa cum laude*, 1988

Farleigh Dickinson University, Teaneck, NJ, USA

School of Science and Engineering, Department of Mathematics and Computer Science

Appointments

- Founding Director and Professor** 2017-present
 Institute for Interdisciplinary Brain and Behavioral Sciences
 Chapman University, Orange, CA, U.S.A.
- Senior Researcher** 2007–present
 Lady Davis Institute for Medical Research of the SMBD Jewish General Hospital
- Visiting Professor** 2014–2015
 Department of Psychology and Brain Institute
 University of California, Los Angeles
 Los Angeles, CA, USA
- Canada Research Chair** 2007–present
 in the Cognitive Neuroscience of Attention 2007–2012
 in Atypical Attention 2012-present
 Faculty of Medicine, McGill University
- Associate Professor** 2007-present
 Department of Psychiatry
 (Associate Member in the Departments of Neurology & Neurosurgery, Psychology, and the
 Montreal Neurological Institute) 2007-present
 McGill University, Montréal, QC
- Professor with Tenure** 2012–present
- Visiting Professor** 2006-2007
 Vancouver Coastal Health Research Institute
 Vancouver, BC
- Assistant Professor** 2003–2006
 Clinical Neuroscience, Department of Psychiatry
 Columbia University, College of Physicians & Surgeons
 New York, NY, USA
- Research Scientist (IV)** 2003–2006
 New York State Psychiatric Institute
 1051 Riverside Drive
 New York, NY
- Assistant Professor** 2002–2003
 Psychology, Department of Psychiatry
 Weill Medical College of Cornell University
 The New York Presbyterian Hospital – Westchester Division
 White Plains, NY, USA

Special Honors, Awards, and Recognition

Erica Fromm Teaching Award, Society of Clinical and Experimental Hypnosis	2019
International Hypnosis Society, Head of Science Conference, Montreal	2018
Her Excellency the Right Honourable Julie Payette, Governor General of Canada	2018
Golden Key Honourary Fellow	2017
Fellow of the Society for Clinical and Experimental Hypnosis	2017
BIAL Fellow	2016
Jay Haley Early Career Award for Innovative Contributions	2012
Award of the Task Force on Hypnosis Research from ASCH	2010
Presidential Commendation from SCEH	2008
American Society of Clinical Hypnosis Special Recognition Award	2007
Ernest and Josephine Hilgard Award.	2007
Diplomate of the American Board of Psychological Hypnosis (ABPH)	2006
Young Investigator Award from the National Alliance for Research on Schizophrenia and Depression (NARSAD)	2006
American Psychological Association's Early Career Award (Div. 30)	2006
Presidential Commendation for Public Education from the Society for Clinical and Experimental Hypnosis	2005
Best Paper Award, American Psychological Association, Division 30	2004
Lake Tahoe Summer Institute Brain Science Award	2003
Honorary Young Member of the Institute in Cognitive Neuroscience 36 th Winter Conference on Brain Research, Snowbird, Utah –Young Fellow Award	2003
Society for Clinical and Experimental Hypnosis: Sherry K. and Harold B. Crasilneck Award.	2002
DeWitt Wallace – Reader's Digest Research Award in Psychiatry.	2002
Research Award of Psychology in Psychiatry, Payne Whitney Clinic.	2001
Society for Clinical and Experimental Hypnosis Award.	2001
Best poster award: Cornell/Rockefeller/Sloan-Kettering, Tri-Institutional Competition.	2001
Institute in Cognitive Neuroscience Award, Dartmouth College, NH.	2000
Presentation Award: Society for Developmental and Behavioral Pediatrics.	2000
The Open University Award for Excellence in Teaching.	1995–1999
Hebrew University Award for Outstanding Pilot Studies.	1998
Institute of Neural Computation Prize.	1994–1997
Feinberg Graduate School Merit Award.	1993–1994
Honors List and Dean's Award for outstanding thesis: "Thematic Abstraction Units."	1989–1990
Merit Scholarship and Member of Honor Society, FDU.	1985–1988

Summary

This CV breaks down information into three sections: 1. Teaching Contributions; 2. Research Contributions; and 3. Other Contributions. I regularly teach at the undergraduate level (e.g., psychology, neuroscience, marketing, neurobiology), graduate (e.g., psychology, neuroscience, philosophy), and at the medical school. I have developed four courses from scratch (i.e., Critical Thinking, Neuropsychology, Hypnosis, Placebo science), revamped another and participated as guest lecturer in many courses at McGill as well as elsewhere.

I have authored more than 130 peer-reviewed publications, including in top journals such as *Nature*, *Nature Reviews Neuroscience*, *The Lancet Psychiatry*, *Archives of General Psychiatry (JAMA Psychiatry)*, *Proceedings of the National Academy of Sciences*, *Brain*, and *Journal of Cognitive Neuroscience* (with over a thousand citations). In addition, I have published my programmatic research efforts in leading niche journals including *Psychological Science*, *PLoS Medicine*, *Cortex*, and *NeuroImage*. Moreover, I published five (5) peer-reviewed volumes, commissioned by reputable academic publishing houses (i.e., Open University of Israel and Oxford University Press) and am currently completing a popular science book on *The Suggestible Brain*.

My contributions are multi-factorial and apply both outside and within the University. Outside the University, I am an active communicator of popular science and an avid proponent of community outreach including high school and college education, responsible media appearances (e.g., New York Times, Scientific American Mind), featured documentaries on specific neuroscience topics (e.g., with the BBC, National Geographic, and CBC), editorial responsibilities, administrative leadership positions in both international societies and professional organizations, and communicating with the general public. Within the university I have served on the Board of Governors, Senate, and the McGill Association of University Teachers. As such, I regularly engage in a variety of University-related affairs. I also find the time to contribute to the important causes of continuing medical education, including through Mini-Science, Mini-Med, homecoming, and fundraising events.

1. TEACHING

1.1 Overarching

I enjoy teaching and thrive on interacting with students. As a former professional performer, standing in front of and engaging my audience comes naturally to me. I am passionate about effective teaching and strive to offer meaningful and memorable educational experiences to my students and colleagues.

1.2 Academic courses at McGill

I teach the following courses. As a general rule, each course hour requires 2–3 hours of preparation time.

Undergraduate:

PSYC 410: *Special Topics in Neuropsychology* Fall term (2009–present)
 Three credits, 39 course hours, N=~150
 Considerable time devoted to redeveloping and reshaping this course.
 Course evaluations available

PSYC 180: *Critical Thinking: Biases and Illusions* Winter term (2012-present)
 Three credits, 39 course hours, N=~300
 Considerable time devoted to proposing and developing this new course.

Graduate:

Brain Myths, NEUR 602: *Special Topics in Neuroscience* Fall term (2008&2010)
 Three credits, 39 course hours, N=~7. Course evaluations available
 Considerable time devoted to proposing and developing this new course.

Placebos and the Brain, NEUR 602: *Special Topics in Neuroscience* Fall term (2008&2010)
 Three credits, 39 course hours, N=~6. Course evaluations available
 Considerable time devoted to proposing and developing this new course.

Placebo in Psychological Science Seminar, PSYC 711 Winter term (2013)
 Three credits, 39 course hours, N=~6
 Course approved to start Winter 2012
 Considerable time devoted to proposing and developing this new course.

Medicine:

Medicine and Society (INDS 406): The Placebo Effect Winter term (2008-present)
 McGill University School of Medicine: 4th year medical students
 (“Physicianship” module), 21 hours, N=~20.
 Considerable time devoted to proposing and developing this new course. Course evaluations available

Physicianship 4 (INDS 420): The Placebo Effect Winter term (2009-present)
 McGill University School of Medicine: 4th year medical students
 (“Physicianship” module), 21 hours, N=~20.
 Considerable time devoted to proposing and developing this new course. Course evaluations available

1.3 Invited Lectures at McGill

I often lecture as part of educational units, modules, or as a stand-alone presenter in numerous courses run by McGill colleagues. I spend about 20 hours per year on such lectures and am frequently called upon as a “pinch hitter.” Below is a partial list:

Undergraduate:

Select lectures in Microbiology and Immunology (e.g., **MIMM387** The Business of Science) and Neuroscience (e.g., **NSCI 300** Neuroethics). In addition, I have lectured informally by substituting, replacing or otherwise teaching in specific undergraduate and graduate seminars; delivering large-class demonstrations (e.g., to 635 participants in **CHEM183** World of Chemistry: Drugs; to 100 participants in **NUTR 200** Contemporary Nutrition).

Graduate:

Select lectures in psychology (e.g., **PSYC 780** Special Topics in Clinical Psychology, **PSYC 660** Psychological Theory).

Medicine:

Assorted lectures and workshops on topics including hypnosis and attention, neuroimaging for psychiatry; and topical lectures for medical students, residents, psychiatrists, and hospital staff. For example:

Medical Students:

In addition to the abovementioned courses offered to fourth- and first-year medical students, I engage in the following:

Presented four three-hour lectures to first-year Medicine and Dentistry students (Classes of 2015, 2014, 2013, 2012; N=~210 in each) every fall semester since 2007 as part of the Med 1 Module in PHYSICIANSHIP 1, including a large-scale interactive placebo demonstration.

Presented two two-hour lectures to fourth-year medical students (N=~180) with an interactive placebo demonstration.

Medical Residents:

McGill University School of Medicine, Neurobiology for Psychiatry Residents (Module H: Neuroscience and Neurobiology), *The Cognitive Neuroscience of Attention*, since 2008.

1.4 Academic Courses Outside McGill

Critical Thinking; Brain, Mind, and Film 2018-2019
Chapman University

Lecturer – “Neuropsychology” 1998–1999
Hebrew University of Jerusalem, Hadassah School of Medicine and Occupational Therapy.
Tasks: Designed and taught a comprehensive two-semester academic undergraduate course in neuropsychology.

Lecturer – “Topics in Neuroscience” and “Advanced Topics in Neuroscience” 1997–1999
Tel Aviv University, Tel Aviv, Department of Psychology, Health Psychology Program.
Tasks: Designed and taught two consecutive two-semester academic graduate courses in neuroscience each year.

Lecturer – “Introductory Neuroscience,” “Elementary Neuroscience,” “Higher Brain Functions,” “Brain Storms,” “Neurocognition,” “Neural Systems,” and “Critical Thinking” 1993–1999

Open University of Israel, Tel Aviv, School for External Studies.

Tasks: Member of the academic committee for ‘The Neurosciences’ (head of the committee from 1997). Designed and taught seven one-semester courses in the domain of brain science intended for both the novice audience and the initiated student each year.

Lecturer – “Current Trends in Brain Research”: Introductory, Intermediate & Advanced. 1997–1999
General Nursing Association, Tel Aviv, School of Nursing.

Tasks: Designed and taught three academic two-semester courses geared towards the nursing community.

Teacher – “Neural Networks,” “Neuropsychology,” “Topics in Behavioral Neurology” 1995–1996
Academy for the Arts and Sciences, Jerusalem, The Society for Excellence Through Education

Tasks: Staff teacher. Taught three two-semester courses at the high school and undergraduate level.

Lecturer – “Artificial Intelligence,” “Mathematical Programming,” “Denotational Semantics,” “Lambda Calculus” 1993–1996

Weizmann Institute of Science, Rehovot, Youth Activities Section.

Tasks: Academic Chief of the Summer Science Camp of the Weizmann Institute of Science. Designed and taught four year-long advanced computer science courses for the gifted and talented high school and college students.

1.5 Invited Lectures outside McGill

Undergraduate

Multiple lectures and demonstrations at English CEGEPS around Montreal (e.g., Dawson College, Vanier College, Marianopolis College, John Abbott). 2007-present

Cornell University, Ithaca, NY. Two lectures on consciousness in Psych 1101 (largest Introduction to Psychology course in North America; N=1700 students; Professor James Maas). 2003–2004

Columbia University, New York, NY. Three lectures on cognition in Science of Psychology PSYC W1001 (Professor Patricia Lindemann). 2003–2005

Columbia University, New York, NY. Three lectures on design of neuroimaging experiments in Experimental Psychology: Thinking and Decision Making PSYC W1490 (Professor Patricia Lindemann). 2003–2005

Princeton University, Princeton, NJ. Two hypnosis lectures in Brain and Mind Seminar (Professor Anne Treisman). 2002–2005

Williams College, Williamstown, MA. Two-day Winter Workshop on Mind-Body (Professor Shawn Rosenheim). 2006–2007

University of California, Los Angeles, CA. A two-day workshop: Administration of the Harvard Group Hypnotizability Scale (Professor Eran Zaidel). 2005–2008

Barnard College, New York, NY. Five hypnosis lectures in Applied Psychology each year (Professor Eshkol Rafaeli). 2005–2007

Graduate:

Weill Medical College of Cornell University, New York, NY. Three guest lectures to neuroscience students, From Neuron to the Brain: An Introduction to Neuroscience (Professor BJ Casey). 2001-2002

Medicine:

Weill Medical College of Cornell University, New York, NY – Three guest lectures to medical school students as part of a course on System Physiology (Professor Michael I. Posner). 2002–2004
 New York University Medical School, New York, NY –Two lectures on Neural Correlates of Higher Brain Functions, Center for Neural Science (Professor Nava Rubin). 2003

2. RESEARCH**2.1. Overarching Research Trajectory**

Cognitive scientists typically distinguish between controlled (i.e., voluntary) and automatic (i.e., involuntary) mental processes. On the one hand, controlled processes are effortful, deliberate, and demand attention (e.g., acquiring literacy for a neophyte). On the other hand, automatic processes are effortless, “happen on their own,” and require little attention (e.g., word reading for a skilled reader). While several researchers have studied how controlled processes may become automatic (e.g., through extensive practice and persistent exposure), only a few studies have explored how automatic processes could return to the purview of voluntary control. My overarching research trajectory addresses this topic and comprises a converging series of interrelated experiments – drawing on different experimental paradigms to elucidate how automatic processes can be de-automatized. This program has guided my research for nearly a decade and represents a novel research direction exploring the influence of top-down processes – e.g., framing, priming, and symbolic thinking – including suggestion and expectation, on a wide array of bottom-up processes. Findings from this research program pave the road to a more scientific understanding of the neural correlates of healthy as well as abnormal brain computations, hold important therapeutic implications for patients suffering from psychopathologies, and elucidate fundamental processes in the behavioural and neurocognitive sciences.

2.2. Grant Activity*Ongoing Research Grants*

Title: Collaborative Research on Placebo Science
Period: From 09/2019 to 09/2020
Amount: \$30,000
Principal Applicants: Amir Raz
Funding Source Program Name: Chapman University

Completed Research Grants (Recent)

Title: Using MEG to elucidate neurofeedback
Period: From 09/2015 to 09/2016
Amount (Euros): \$35,000
Principal Applicants: Amir Raz and Robert Thibault
Funding Source Program Name: BIAL Foundation

Title: Free will and intentionality
Period: From 09/2015 to 09/2016
Amount (Euros): \$35,000
Principal Applicants: Amir Raz and Jay Olson

Funding Source Program Name: BIAL Foundation

Title: Maximizing post-stroke upper limb rehabilitation using a novel telerehabilitation interactive virtual reality system in the patient's home

Period: From (04/2013) to (09/2015)

Amount (CAN): \$181,403

Principal Applicant: Dahlia Kairy (Université de Montréal), Amir Raz co-investigator.

Funding Source Program Name: Heart and Stroke Foundation Canadian Partnership for Stroke Recovery (CPSR)

Title: Recursive consciousness training: Unconventional objective brain imaging elucidates subjective top-down processes

Period: From (09/2013) to (12/2014)

Amount (Euros): 100,000

Principal Applicant: Amir Raz (managed by German colleague Niels Birbaumer of Tubingen)

Funding Source Program Name: Volkswagenstiftung (Germany)

Title: Psychosocial factors in cultural variation of attention training

Period: From (10/2013) To (10/2014)

Amount (CAN): \$10,000

Principal Applicant: Amir Raz

Funding Source Program Name: La Délégation Wallonie-Bruxelles au Québec (DWBQ)

Title: Attention and Colour

Period: From (03/2012) To (03/2013)

Amount (CAN): \$20,000

Principal Applicant: Amir Raz

Funding Source Program Name: Valspar Color Institute, Northwestern University

Title: Placebos in the Clinic? Fostering Ethical, Educational, Policy and Practical Consensus

Period: From (09/2011) To (09/2012)

Amount (CAN): \$25,000

Principal Applicant: Amir Raz

Funding Source Program Name: Canadian Institutes of Health Research (CIHR)

Title: How Suggestibility May Influence the Placebo Response: Insights from a Novel Experimental Design

Period: From (09/2010) To (09/2014)

Amount (CAN): \$410,000 (\$102,500 per year)

Principal Applicant: Amir Raz

Funding Source Program Name: Canadian Institutes of Health Research (CIHR)

Title: Cognitive Neuroscience of Suggestion

Period: From (09/2010) To (09/2015)

Amount (CAN): \$310,000 (\$62,000 per year)

Principal Applicant: Amir Raz

Funding Source Program Name: Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery

Title: Cognitive Neuroscience of Suggestion

Period: From (09/2011) To (09/2014)

Amount (CAN): \$120,000 (\$40,000 per year)

Principal Applicant: Amir Raz

Funding Source Program Name: Natural Sciences and Engineering Research Council of Canada (NSERC) – Discovery Accelerator Supplement

Title: Cognitive Neuroscience of Suggestion: Concurrent and Integrative Measurements of Typical and Atypical Attention

Period: From (09/2007) To (09/2012)

Amount (CAN): \$425,000 (\$85,000 per year)

Principal Applicant: Amir Raz

Funding Source Program Name: Canada Research Chairs

Title: Cognitive Neuroscience of Suggestion, Expectation, and Attention

Period: From (09/2012) To (09/2017)

Amount (CAN): \$425,000 (\$85,000 per year)

Principal Applicant: Amir Raz

Funding Source Program Name: Canada Research Chairs

Title: Cognitive Neuroscience of Suggestion:

Concurrent and Integrative Measurements of Typical and Atypical Attention

Period: From (09/2007) To (09/2012)

Amount (CAN): \$284,160

Principal Applicant: Amir Raz

Funding Source Program Name: Canada Foundation for Innovation – Leaders Opportunity Fund (CFI project #203836)

Title: Using Social Science to Elucidate Placebos: Examining a Powerful Effect through a Non-medical Lens

Period: From (09/2010) To (09/2011)

Amount (CAN): \$22,000

Principal Applicant: Amir Raz

Funding Source Program Name: Social Sciences and Humanities Research Council of Canada (SSHRC)

Title: The Cognitive Neuroscience of Attention in Magic

Period: From (09/2010) To (09/2011)

Amount (CAN): \$20,000

Principal Applicant: Amir Raz

Funding Source Program Name: Oxford-McGill Neuroscience Initiative

Title: Attentional regulation of affect and cognition in impulse control disorders

Period: From (09/2007) To (09/2009)

Amount (US): \$59,500

Principal Applicant: Amir Raz

Funding Source Program Name: NARSAD Young Investigator Award

2.3. Peer-Reviewed Publications

Bold font indicates a supervised student.

a) Select Papers

1. **Wong, A.**, and Raz, A. (2021). Microdosing with Classical Psychedelics: Research Trajectories and Practical Considerations. *Transcultural Psychiatry*.
2. **Kaypak, A. C.** and Raz, A. (2021). Macro dosing to micro dosing with psychedelics: Clinical, social, and cultural perspectives. *Transcultural Psychiatry*.
3. **Landry, M., Da Silva Castanheira, J., Milton, D., & Raz, A.** (2021) Suggestion alters Stroop automaticity: Hypnotic alexia through a proactive lens. *Psychology of Consciousness: Theory, Research, and Practice*. <https://doi.org/10.1037/cns0000268>
4. **Thériault, R., Olson, J. A., Krol, S. A. & Raz, A.** (2021) Body swapping with a black person boosts empathy: Using virtual reality to embody another. *Quarterly Journal of Experimental Psychology*. 17470218211024826.
5. **Olson, J.A., Lifshitz, M., Raz, A., and Vessière, S.P.L.** (2021). Super placebos: A feasibility study combining contextual factors to promote placebo effects. *Front. Psychiatry* 12:644825
6. **Landry, M., Da Silva Castanheira, J., Sackur, J., Raz, A.** (2021). Investigating how the modularity of visuospatial attention shapes conscious perception using type 1 and type 2 signal detection theory. *Journal of Experimental Psychology: Human Perception and Performance*.
7. **Olson, J. A., Sandra, D., Chmoulevitch, D., Raz, A., & Veissière, S. P.** (2021). A ten-step behavioural intervention to reduce screen time and problematic smartphone use. (*Preprint*).
8. **Olson, J. A., & Raz, A.** (2021) Applying insights from magic to improve deception in research: The Swiss cheese model. *Journal of Experimental Social Psychology*. 104053.
9. **Olson, J. A., Sandra, D. A., Colucci, É. S., et al.** (2020). Smartphone addiction is increasing across the world: A meta-analysis of 24 countries. (*Preprint*). <https://doi.org/10.31234/osf.io/fsn6v>
10. **Landry M., Da Silva Castanheira J, Sackur J, & Raz A.** (2020). Difficult Turned Easy: Suggestion Renders a Challenging Visual Task Simple, *Psychological Science*.
11. **Landry, M., Da Silva Castanheira, J., Milton, D., Raz, A.** (2020). Suggestion alters automaticity: Hypnotic alexia through a proactive lens. *Psychology of Consciousness: Theory, Research, and Practice*.
12. **Olson, J.A., Suissa-Rochelleau, L., Lifshitz, M.** et al. (2020). Tripping on nothing: placebo psychedelics and contextual factors. *Psychopharmacology*. <https://doi.org/10.1007/s00213-020-05464-5>
13. **Olson, J. A., Artenie, D. Z., Cyr, M., Raz, A., & Lee, V.** (2019). Developing a light-based intervention to reduce fatigue and improve sleep in rapidly rotating shift workers. *Chronobiology International*, 1-19. doi: 10.1080/07420528.2019.1698591
14. Krol, S. A., **Thériault, R., Olson, J. A., Raz, A., & Bartz, J.** (2019). Self-Concept Clarity and the Bodily Self: Malleability Across Modalities. *Personality and Social Psychology Bulletin*. doi: 10.1177/0146167219879126
15. **Thibault, R. T., Lifshitz, M., & Raz, A.** (2018). The climate of neurofeedback: Scientific rigour and the perils of ideology. *Brain*, 141(2), e11.
16. **Thibault, R. T., Veissière S., Olson, J. A., & Raz, A.** (2018). Treating ADHD with Suggestion: Neurofeedback and Placebo Therapeutics. *Journal of Attention Disorders*, 22(8), 707-711.
17. **Landry, M., Stendel, M., Landry, M., & Raz, A.**(2018). Hypnosis in palliative care: from clinical insights to the science of self-regulation. *Annals of palliative medicine*, 7(1).
18. **Thibault, R. T., MacPherson, A., Lifshitz, M., Roth, R. R., & Raz, A.** (2018). Neurofeedback with fMRI: A critical systematic review. *NeuroImage*, 172, 786–807.
19. **Thériault, R., & Raz, A.** (2018). Patterns of bronchial challenge testing in Canada. *Canadian Journal of Respiratory Therapy*, 54(2), 41-47. doi: 10.29390/cjrt-2018-006

20. Evers A. W. M., Colloca L., Blease C., Annoni M., Atlas L. Y., Benedetti F., Bingel U., Büchel C., Carvalho C., Colagiuri B., Crum A. J., Enck P., Gaab J., Geers A. L., Howick J., Jensen K. B., Kirsch I., Meissner K., Napadow V., Peerdeman K. J., Raz A., Rief W., Vase L., Wager T. D., Wampold B. E., Weimer K., Wiech K., Kaptchuk T. J., Klinger R., & Kelley J. M. (2018). Implications of Placebo and Nocebo Effects for Clinical Practice: Expert Consensus. *Psychother Psychosom*, 87:204-210
21. **Lifshitz, M., Thibault, R. T., Roth, R., & Raz, A.** (2017). Source-localization of brain states associated with canonical neuroimaging postures. *Journal of Cognitive Neuroscience*.
22. **Olson, J. A., Jeyanesan, E., & Raz, A.** (2017). Ask the pendulum: Personality predictors of ideomotor performance. *Neuroscience of Consciousness*, volume 3, issue 1, 1 Januray 2017, nix014, <https://doi.org/10.1093/nc/nix014>
23. **Thibault, Robert & Raz, A.** (2017). Corrigendum: Imaging Posture Veils Neural Signals. *Frontiers in Human Neuroscience*. 11. 10.3389/fnhum.2017.00045.
24. **Thibault RT, Lifshitz M, & Raz A.** (2017). Neurofeedback or Neuroplacebo? *Brain*.
25. **Lifshitz M, Thibault RT, Roth R, Raz A.** (in press). Body posture shapes neuroimaging data, *Journal of Cognitive Neuroscience*.
26. Terhune DB, Cleeremans A, Lynn SJ, Raz A. (2017). Hypnosis and top-down regulation of consciousness. *Neuroscience & Biobehavioral Reviews*.
27. **Landry, M., Lifshitz M, Raz, A.** (2017). Brain correlates of hypnosis: A systematic and meta-analytic exploration. *Neuroscience & Biobehavioral Reviews*.
28. **Lifshitz, M., Sheiner, E., Olson, J., Thériault, R., & Raz, A.** (2017). On suggestibility and placebo: A follow-up study. *The American Journal of Clinical Hypnosis*
29. **Thibault RT, Raz A.** (2017). The psychology of neurofeedback: Clinical intervention even if applied placebo. *American Psychologist*.
30. **Thibault RT, Raz A.** (2016). Neurofeedback: The power of psychosocial therapeutics. *The Lancet Psychiatry*, 3(11), e18, [http://dx.doi.org/10.1016/S2215-0366\(16\)30326-1](http://dx.doi.org/10.1016/S2215-0366(16)30326-1)
31. **Thibault RT, Raz A** (2016). Imaging Posture Veils Neural Signals. *Front. Hum. Neurosci.* 10:520. doi: 10.3389/fnhum.2016.00520
32. **Thibault RT & Raz A.** (2016). When can neurofeedback join the clinical armamentarium? *The Lancet Psychiatry*, 3(6), 497-498, [http://dx.doi.org/10.1016/S2215-0366\(16\)30040-2](http://dx.doi.org/10.1016/S2215-0366(16)30040-2)
33. **Thibault RT, Lifshitz M, & Raz A.** (2016). The self-regulating brain and neurofeedback: Experimental science and clinical promise. *Cortex*, 74, 247-261, doi:10.1016/j.cortex.2015.10.024
34. **Kairy D., et al.** (2016). Maximizing post-stroke upper limb rehabilitation using a novel telerehabilitation interactive virtual reality system in the patient's home. *Contemporary Clinical Trials*.
35. **Lifshitz M., Sheiner, E., & Raz, A.** (2015). Hypnotic suggestibility predicts psychological and autonomic response to a placebo sedative. *Psychology of Consciousness: Theory, Research, and Practice*.
36. **Olson J.A., Amlani, A.A., Raz, A., & Rensink, R.A.** (2015). Influencing choice without awareness. *Consciousness and Cognition*.
37. **Thibault, R.T., Lifshitz, M., & Raz, A.** (2015). Body position alters human resting-state: Findings from multi-postural magnetoencephalography. *Cortex*. doi: 10.1007/s11682-015-9447-8
38. **Harris, C.S., Campbell, N.K.J, Raz A.** (2015). Placebo Trends across the Border: US versus Canada. *PLOS ONE*. doi:10.1371/journal.pone.0142804.
39. **Lifshitz, M. & Raz, A.** (2015). Hypnotic ability and baseline attention: fMRI findings of Stroop interference. *Psychology of Consciousness: Theory, Research, and Practice*. 2(2), 134-143.
40. **Champigny, C., & Raz, A.** (2015). Transcultural factors in hypnotizability scales: Limits and prospects. *American Journal of Clinical Hypnosis*. 58(2), 171-194. doi: 10.1080/00029157.2015.1061473.
41. **Harris, C. S., Lifshitz, M., & Raz, A.** (2015). Acupuncture for chronic pain? Clinical wisdom undecided despite over 4000 years of practice. *The American Journal of Medicine*. 128(4).
42. **Olson, J.A., Demacheva, I., & Raz, A.** (2015). Explanations of a magic trick across the life span. *Frontiers in Psychology*, 6(219). doi: 10.3389/fpsyg.2015.00219

43. **Thibault, R.T., Lifshitz, M.,** Birbaumer, N., & Raz, A. (2015). Neurofeedback, self-regulation, and brain imaging: Clinical science and fad in the service of mental disorders. *Psychotherapy and Psychosomatics*.
44. **Landry, M., & Raz, A.** (2015). Hypnosis and imaging of the living human brain. *American Journal of Clinical Hypnosis*, 57(3), 285-313.
45. **Thibault, R.T., Lifshitz, M., Jones, J.M., & Raz, A.** (2014). Posture alters human resting state. *Cortex*, 58, 199-205. doi: 10.1016/j.cortex.2014.06.014
46. **Landry, M., Appourchaux, K., & Raz, A.** (2014). Elucidating unconscious processing with instrumental hypnosis. *Frontiers in Psychology*, 5, 785.
47. Greenfield, B., Henry, M., Lis, E., Slatkoff, J., Guile, J.M., Dougherty, G. ... de Castro, F. (2014). Correlates, stability and predictors of borderline personality disorder among previously suicidal youth. *European Child & Adolescent Psychiatry*.
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b) Books & Book Chapters

Select Books

1. Raz, A., & **Lifshitz, M.** (2016). *Hypnosis and meditation: Towards an integrative science of conscious planes*. Oxford: Oxford University Press.
2. Raz, A., & **Rabipour, S.** (Slated for publication in March, 2017). *How (not) to train your brain*. Oxford: Oxford University Press.
3. Raz, A., & **Harris, C.** (Eds.). (2016). *Talking placebos: Modern perspectives on placebos in society*. Oxford: Oxford University Press.
4. Raz, A. (1998). *A popular guide to higher brain functions*. Tel Aviv: The Open University of Israel Press (in Hebrew).

Select Book Chapters

1. **Landry, M.,** & Raz, A. (in press). Neurophysiology of hypnosis. G. Elkins (Ed.), *The Clinician's Guide to Medical and Psychological Hypnosis: Foundations, Systems, Applications and Professional Issues*. New York: Springer.

2. Raz, A. (2016). Hypnosis and meditation as vehicles to elucidate human consciousness. In A. Raz and **M. Lifshitz** (Eds.), *Hypnosis and meditation: Towards an integrative science of conscious planes*. Oxford, UK: Oxford University Press.
3. Raz, A. (in press; slated for publication in 2015). Placebos as social constructs to elucidate human behavior. In A. Raz & **C. Harris** (Eds.), *Talking placebos: Modern perspectives on placebos in society*. Oxford: Oxford University Press.
4. Raz, A., & **Campbell, N. K. J.** (in press; slated for publication in 2016). Teaching placebo science to health care professionals. In A. Raz & **C. Harris** (Eds.), *Talking placebos: Modern perspectives on placebos in society*. Oxford: Oxford University Press.
5. Raz, A., & **Macdonald, E.B.** (in press). Paying attention to a field in crisis: Psychiatry, neuroscience, and functional systems of the brain. In L.J. Kirmayer, R. Lemelson, and C.A. Cummings (Eds.), *Re-visioning psychiatry: Cultural phenomenology, critical neuroscience, and global mental health* (pp. 273-304). Cambridge, UK: Cambridge University Press.
6. **Lifshitz, M., Cusumano, E.P., & Raz, A.** (2014). Meditation and hypnosis at the intersection between phenomenology and cognitive science. In S. Schmidt and H. Walach (Eds.), *Meditation – Neuroscientific Approaches and Philosophical Implications, Studies in Neuroscience, Consciousness and Spirituality 2*. Switzerland: Springer International Publishing.
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8. Raz, A., & **Wolfson, J.** (2012). From dynamic to behavioral lesions: The relative merits and caveats of elucidating psychoanalysis with brain imaging. In K. Fotopolou & D. Pfaff (Eds.), *From the couch to the lab: Psychoanalysis, neuroscience and cognitive psychology in dialogue*. Oxford: Oxford University Press.
9. Raz, A., & **Zigman, P.** (2009). Using magic as a vehicle to elucidate attention. In A. FinazziAgrò et al. (Eds.), *Encyclopedia of Life Sciences*. London: John Wiley & Sons, Ltd.
10. Raz, A. (2009). Varieties of attention: A researcher-magician's perspective. In G. Bernston & J. Cacioppo (Eds.), *Handbook of Neuroscience for the Behavioral Sciences* (pp. 361-369). New York: John Wiley & Sons, Inc.
11. Raz, A. (2009). Anomalous cognition. In K. Frazier (Ed.), *Science Under Siege: Defending Science, Exposing Pseudoscience* (pp. 268–274). New York: Prometheus Books.
12. **Egner, T., & Raz, A.** (2007). Cognitive control processes and hypnosis. In G. Jameson (Ed.), *Executive Functions in Hypnosis* (pp. 29–50). Cambridge: Cambridge University Press.
13. Raz, A., **Sadasivan, C.**, Gersten, A, Lieber, B.B. (2005) *A Simple Mathematical Model for Cerebral Autoregulation: The Importance of Variability in Individual Data* in Hozman J., Kneppo P. (Eds). *IFMBE Proceedings, Vol. 11*. Prague: IFMBE, 2005. (*Proceedings of the 3rd European Medical & Biological Engineering Conference - EMBEC '05*. Prague, Czech Republic, 20-25.11.2005)
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2.4 Other Publications

a) Letters to the Editor, Commentaries, etc.

1. **de Jong, V., & Raz, A.** (2011). Multifactorial Aspects of Subtherapeutic Effectiveness. [Letter to the editor]. *Canadian Journal of Psychiatry*.
2. **Raz, A., Golinski, R.** (2010, April 20). Online commentary. *Nature*, 464(1111). doi:10.1038/4641111
3. **Raz, A.** (2009, June 10). What is a Randomized Controlled Trial for the Canadian Institute of Health Research? [Letter to the editor]. *Canadian Journal of Psychiatry*, 54(6), 425–426.
4. **Raz, A.** (2006, July 30). Electromagnetic radiation and brain function. *Scientific American Mind*.
5. **Raz, A.** (2003, October 20). Mail Call: The Pain Of Autism. *Newsweek*.

b) Select Abstracts in Scientific Meetings

1. **Landry, M., & Raz A.** *Attention and partial consciousness*. CSBBCS (2016).
2. **Oksenhendler, R., Ben-Shoshan, M., & Raz, A.** (2014). *Using psychosocial factors to mediate chronic hives in children and adults*. Paper presented at the 65th Annual Conference of the Society for Clinical and Experimental Hypnosis, San Antonio, TX.
3. **Oksenhendler, R., Ben-Shoshan, M., & Raz, A.** (2014). *Using psychosocial factors to mediate chronic hives: A case report*. Poster presented at the Annual Meeting of the Canadian Society of Allergy and Clinical Immunology, Ottawa, ON.
4. **Lifshitz, M., Cusumano, E., & Raz, A.** (2013). *Hypnosis as neurophenomenology*. Mind and Life Summer Research Institute, Garrison, NY.
5. **Rabipour S. & Raz, A.** (2013, October). *Modifying responsiveness to hypnotic suggestion*. Paper presented at the 64th Annual Conference of the Society for Clinical and Experimental Hypnosis, Berkeley, CA.
6. **Lifshitz, M. & Raz, A.** (2013, October). *How Aldous Huxley and Milton Erickson probed the boundaries of consciousness in meditation and hypnosis*. Paper presented at the 64th Annual Conference of the Society for Clinical and Experimental Hypnosis, Berkeley, CA.
7. **Sheiner, E.O. & Raz, A.** (2013, October). *A history of hypnosis in Japan: From popularity to prohibition to precision*. Paper presented at the 64th Annual Conference of the Society for Clinical and Experimental Hypnosis, Berkeley, CA.
8. **Champigny, CM. & Raz, A.** (2013, October). *Transcultural perspectives on hypnotizability scales: Promise, caveats, and future prospects*. Paper presented at the 64th Annual Conference of the Society for Clinical and Experimental Hypnosis, Berkeley, CA.
9. **Lifshitz, M., Raz A.** (2012, October). *Posthypnotic suggestion overrides audiovisual integration*. Paper presented at the 63rd Annual Conference of the Society for Clinical and Experimental Hypnosis, Toronto, ON.
10. **Lifshitz, M., Aubert-Bonn, N., Fischer, A., Kashem, I. F., & Raz, A.** (2012). *Using suggestion to gain control over increasingly automatic processes*. 16th annual meeting of the Association for the Scientific Study of Consciousness, Brighton, UK.
11. **Lifshitz, M., Raz A.** (2012). *Hypnosis as non-deceptive placebo*. International workshop: Placebos in the clinic? Fostering ethical, education, policy and practical consensus, Montreal, QC.
12. **Lifshitz, M., Raz A.** (2011). *How phenomenological is naturalized phenomenology? Putting experience back into the science of consciousness*. Colloquium: Consciousness between neuroscience and philosophy. University of Quebec at Montreal, Montreal, QC.
13. **Lifshitz, M., Raz A.** (2011). *Hypnosis and meditation: Unique and overlapping perspectives on cognitive control and mind-body interactions*. 62nd annual meeting of the Society for Clinical and Experimental Hypnosis, New Orleans, LA.
14. **Lifshitz, M., Raz A.** (2011). *Mindfulness meditation and hypnotic suggestion: Novel additions to the phenomenological toolbox*. Centre for Subjectivity Research, Summer School in Phenomenology and Philosophy of Mind, Copenhagen, Denmark.

15. **Ali, S., & Raz, A.** (2011). *Critical Thinking in Neuroscience: Neuroimaging versus Neuroenchantment*. Paper presented at the Workshop Neuro-Reality Check: Scrutinizing the neuro-turn in the humanities and natural sciences, Berlin, Germany.
16. **de Jong, V., & Raz, A.** (2011, May). *The clinical treatment of depression: Ethical disconnects at the mind-brain-dose interface*. Oral presentation at the international neuroethics conference Brain Matters 2: Ethics in the Translation of Neuroscience Research to Psychiatric and Neurological Care (Institut de recherches cliniques de Montréal), Montréal, QC.
17. **Raz, A., Perez-Hernandez, E., Rabipour, S., & Ng, V.** (2011, February). *Attention training in children with ADHD*. Paper presented at the International Neuropsychological Society Annual Meeting, Boston, MA.
18. **Perez-Hernandez, E., Ng, V., Rabipour, S., Zenetzis, C., & Raz, A.** (2010, November). *Attention training program in ADHD children*. Paper presented at the Canadian ADHD Resource Alliance Conference, Vancouver, BC.
19. **Howells, K., Lifshitz, M., & Raz, A.** (2010, November). *Can heightened expectation influence perceptual integration via hypnotizability?* Paper presented at the International Conference Presentation: Elucidating orthogonal perspectives. Society for Clinical and Experimental Hypnosis 61st Annual Workshops and Scientific Program, Boston, MA.
20. **Raz, A., Perez-Hernandez, E., Rabipour, S., & Ng, V.** (2010, September). *Exploring the effects of computerized-targeted attention training in children*. Poster session presented at the Integrated Program for Neuroscience Retreat (Centre Mont-Royal), Montréal, QC.
21. **Demacheva, I., & Raz, A.** (2010, June). *Developmental cognitive neuroscience and the blameworthiness of youth: Results from a survey of multiple experts*. Poster session presented at the 1st Annual LDI Retreat Day, Montreal, QC.
22. **Raz, A., Golinski, R., & Pérez-Hernández, E.** (2010, May). *Attention training and developmental psychopathology*. Paper presented at Child Psychiatry In-Service Rounds, Jewish General Hospital, Montréal, QC.
23. **Wolfson, J., & Raz, A.** (2009, June). *Brain imaging in neuropsychanalysis*. International Neuropsychanalysis Congress, Paris, France.
24. **Golinsky, R., & Raz, A.** (2009, June). *Attention training in children with impulse control disorders*. Paper presented at the Annual LDI/JGH Student Research Day, Montréal, QC. (Recipient of 2nd Prize for Scientific Oral Presentation)
25. **Demacheva, I., Raz, A.** (2009, June). *Cognitive psychology and magic*. Poster session presented at the Annual LDI/JGH Student Research Day, Montreal, QC.
26. **Demacheva, I., Raz, A.** (2009, June). *Magic tricks and cognition: A survey of beliefs, knowledge, and attitudes towards close-up illusions*. Poster session presented at the 3rd Annual LDI Student Research Day, Montreal, QC.
27. **Campbell, N. K. J., & Raz, A.** (2009, June). *Placebos in clinical practice*. Oral presentation at the First Psychiatry Research Day, Montréal, QC.
28. **Wolfson, J., Déry, C., & Raz, A.** (2009, May). *Suggestion induces "Behavioral Lesions" on the human brain*. Association for Psychological Science, Annual Meeting in San Francisco, San Francisco, CA.
29. **Raz, A.** (2007, July). The developmental cognitive neuroscience of suggestion and its relation to improving attention and self-regulation. In A. Diamond (Chair) *Developmental Cognitive Neuroscience of the Executive Function Dependent on the Frontal Lobe: Challenging Long-held Beliefs*. Symposium conducted at the mid-year meeting of the International Neuropsychological Society, Bilbao, Spain.
30. **Raz, A.** (2007, July). Unravelling the neurocorrelates of suggestion. In G. Mazzone (Chair), *The Effect of Suggestion: Beyond Memory*. Symposium presented at SARMAC VII, Lewiston, ME, USA.
31. **Jeong, J., Chung, D., Lee, J., Raz, A.** (2006, July). *An integrative neural network model for the negative priming effect of Stroop task performance*. Poster Session presented at the fifteenth annual Computational Neuroscience Meeting, Edinburgh, UK.

32. **Sadasivan, C.**, Raz, A., Lieber, B. (2006, June). Mathematical modeling of cerebral autoregulation as a feedback mechanism. In C. Taylor (Chair), *Arterial Fluid Mechanics*. Symposium conducted at the annual meeting of the American Society of Mechanical Engineers, Amelia Island, FL, USA.
33. Raz, A. (2006, May). Attentional varieties and the influence of suggestion. In A. Raz (Chair), *Typologies of Attention in Psychological Science*, Symposium conducted at the APS 18th Annual Convention, New York, NY.
34. Xu, D., Raz, A., Bansal, R., Zhu, H. T., Hao, X., Kangarlu, A., & Peterson, B. S. (2005, May). Fiber density map based on diffusion tensor image data. In V. S. Lee (Chair), *13th Scientific Meeting and Exposition*. Symposium conducted at the meeting of the ISMRM 2005, Miami Beach, FL.
35. Raz, A., Lieber, B., & Posner, M. I. (2005, April). *Hydrostatic effects in fMRI*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
36. Barnea, A., Raz, A., Rassis, A., & Zaidel, E. (2005, April). *Neurofeedback and the lateralized attention networks test*. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, April 9, 2005, New York, NY.
37. Raz, A., Fan, J., & Posner, M. I. (2004, April). *Attention, hypnosis, and error negativity*. Annual Meeting of the Cognitive Neuroscience Society, April 14–16, 2004, San Francisco, California.
38. Raz, A., & **Zephrani, Z. R.** (2003, November). A myopic approach to hypnotic suggestion and visual acuity. In D. Barrett (Chair), *Hypnotic Phenomena I: Recent Research*. Symposium conducted at the annual meeting of the Society for Clinical and Experimental Hypnosis, Chicago, IL.
39. Raz, A., **Pollard, J.**, & Kirsch, I. (2003, November). Posthypnotic vs. non-posthypnotic suggestion to obviate Stroop interference. In J. E. Horton (Chair), *Executive attention, hypnosis, and the brain: Insights from behavioral and functional magnetic resonance imaging (fMRI) studies*. Symposium conducted at the annual meeting of the Society for Clinical and Experimental Hypnosis, Chicago, IL.
40. Raz, A. (2003, November). *Neural correlates of attentional variability between highly hypnotizable and less suggestible individuals*. Poster session presented at the annual meeting of the Society for Clinical and Experimental Hypnosis.
41. Raz, A. (2003, November). Hypnotic dreams: Past, present & future. In M. Barabasz (Chair), *Hypnotic Phenomena II: Recent Research*. Symposium conducted at the annual meeting of the Society for Clinical and Experimental Hypnosis, Chicago, IL.
42. Raz, A. (2003, November). Neuroimaging and genetic assays of hypnotic phenomena. In J. Gruzelier (Chair), *Hypnotic Responsiveness: It's partially in the genes*. Symposium conducted at the annual meeting of the Society for Clinical and Experimental Hypnosis, Chicago, IL.
43. Raz, A. (2003, August). *Top down modulation of Stroop words using post-hypnotic suggestion & hypnosis and visual acuity*, Poster session presented at the American Psychological Association Convention, Toronto, ON.
44. **Pollard, J.**, Raz, A., & Kirsch, I. (2003, July). *The effect of suggestion on Stroop performance*. Paper presented at the annual meeting of The Society for Applied Research in Memory and Cognition, Aberdeen, Scotland.
45. Raz, A., Fossella, J. A., **McGuinness, P.**, Sommer, T., Fan, J., & Posner, M. I. (2003, April) *Genetic assays and the role of dopaminergic neuromodulation in attentional and hypnotic phenomena*. Poster session presented at the annual Meeting of the Cognitive Neuroscience Society, New York, NY.
46. Raz, A. (2002, November). *Genetics, fMRI, self-regulation and suggestion*, Poster session presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Boston, MA.
47. Raz, A., Fan, J., Shapiro, T., & Posner, M. I. (2002, November). *Top-down modulation of Stroop interference by posthypnotic suggestion: Behavioral, optical, and neuroimaging accounts*, Poster session presented at the annual meeting of the Society for Clinical and Experimental Hypnosis, Boston, MA.
48. Raz, A., Fan, J., Shapiro, T., & Posner M. I. (2002, November). *fMRI of posthypnotic suggestion to modulate reading Stroop words*. Paper presented at the 32nd annual meeting of the Society for Neuroscience, Orlando, FL.

49. Raz, A., Fan, J., Shapiro, T., & Posner M. I. (2002, April). *Hypnotic modulation of Stroop interference: Behavioral and neuroimaging accounts*. Paper presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
50. Raz, A., Fan, J., & Posner, M. I. (2002, April). *Modulation of Stroop interference: Behavioral and fMRI accounts*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
51. Raz, A., Fan, J., & Posner, M. I. (2002, March). *Modulation of reading by posthypnotic suggestion: Behavioral and Neuroimaging Data*. Poster presented at the 2nd Joint Symposium on Frontiers In Computational Neuroscience Caltech – Hebrew University, Asilomar, CA.
52. Raz, A., Shapiro T., Fan J., & Posner M. I. (2001, November). *Modulation of Stroop interference by hypnotic suggestion*, Paper presented at the 52nd Annual Meeting of the Society for Clinical and Experimental Hypnosis, San Antonio, TX.
53. Raz, A., **Soliman, F.**, Fan, J., Durston, S., Posner, M. I. (2001, November). *Do neuroimaging posture and procedures affect cognitive performance?* Poster session presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
54. Raz, A., & Posner, M. I. (2000, October). *What's with posture, Neuroimaging and Cognition?* Paper presented at the First Aging Symposium at Cornell University, Ithaca, NY.
55. Raz, A., **Soliman, F.**, Fan, J., **Flombaum, J.**, Durston, S., & Posner, M. I. (2000, October). *Sitting up versus lying down in a scanner: Cognitive performance issues*. Paper presented at the first annual Aging Symposium of the Center for Aging Research and Clinical Care, New York, NY.
56. Raz, A., Deouell, L. Y., Bentin, S. (2000, October). *Sleep-deprivation and pre-attentional processing*. Paper presented at the first annual Aging Symposium of the Center for Aging Research and Clinical Care, New York, NY.
57. Raz, A., & Posner, M. I. (2000, October). *Attention under sleep deprivation: Mismatch negativity altered by attentional state*, Paper presented at the Journal of Cognitive Neuroscience Society, San Francisco, CA.
58. Raz, A. (1999, April). *Influences of total sleep deprivation on attention*. Poster presented at the Pathophysiology of the Brain and the Nervous System Conference, Kiryat Anavim, Israel.
59. Raz, A., Bentin, S., & Deouell, L. Y. (1999, March). *The effects of sleep deprivation on the spotlight of visual attention*. Poster presented at the Joint Symposium on Frontiers in Computational Neuroscience, Eilat, Israel.
60. Raz, A. (1998, February). *Sleep deprivation and visual attention: Spotlight effects*. Paper presented at the annual Graduate Student Talks of the Institute for Neural Computation, Ein-Gedi, Israel.

2.5 Invited Speaker

Partial List of Local Talks (around Montréal)

- Société Québécoise pour la Recherche en Psychologie annual conference, Psychology of Magic, Montreal, March 28-30, 2014.
- Fondation du Dr Julien Annual Conference. Neurodevelopmental disorders and the prefrontal cortex. Montreal, 2013.
- Canadian Psychoanalytic Society – Quebec English Board (Invited by Cheryl Jacobson). *Suggestion, Brain Science, and Psychoanalysis*. Montreal, 2012.
- La Société Québécoise d'Hypnose (Invited by Dr. Michel Landry). Keynote Speaker, *A Neuroscience of Top-Down Control*. Montreal, 2011.
- Montreal Children's Hospital Allergy & Immunology Annual Retreat. *Psychological Factors in Allergic Diseases*. Montreal, 2011.
- Canadian Chemical Institute, 94th Canadian Chemistry Conference and Exhibition (Invited by Dr. Joe Schwarcz). *Chemistry and the Placebo Effect*. Montreal, 2011.

Challenges in Women's Health: Obstetrics and Gynecology Meeting at the Best Western Ville-Marie Hotel & Suites (Invited by Dr. Togas Tulandi). *Developmental Attention*. Montreal, 2010.

Special Lecture at the Société psychanalytique de Montréal (Invited by Drs. Dianne Casoni & Louis Brunet). *Neuropsychanalyse II*. Montreal, 2010.

Douglas Schizophrenia Workshop, Douglas Mental Hospital (Invited by Dr. Martin Lepage). *Typologies of Attention Networks*. Montreal, 2008.

Brain, Mind, and Society Conference McGill University (Invited by Dr. George Weisz). *NeuroPlacebo: Towards a Cognitive Neuroscience of Suggestion*, Montreal, 2008.

Special Lecture at the Canadian psychoanalytic Society: Québec English Branch (Invited by Drs. Dianne Casoni & Louis Brunet). *Neuropsychanalyse I*. Montreal, 2008.

Montréal Neurological Institute, McGill University (Invited by Dr. Howard Chertkow). *Suggestion Reduces Conflict in the Human Brain: Converging Neuroimaging Accounts*. Montreal, 2006.

Sir Mortimer B. Davis-Jewish General Hospital, Department of Psychiatry (Invited by Dr. Phyllis Zekowitz). *How suggestion influences brain function*. Montreal, 2006.

Université de Montréal, Neuropsychologie & Faculté de médecine dentaire. (Invited by Dr. Pierre Rainville). *The Effects of Posthypnotic Suggestion on Reading Stroop Words*. Montreal, 2002.

National and International (Partial List)

“Psychosocial Parameters in Personalized Medicine: Top-down versus Bottom-up Control” (Invited by Haim Werner), Tel Aviv University, Tel Aviv, Israel, May 16, 2016.

“Top-Down effects” (Invited by Prof. Jesper Sørensen), Afdeling for Religionsvidenskab, Institut for Kultur og Samfund, Aarhus Universitet, Aarhus, Denmark, April 6, 2016.

Plenary, “Placebo science: Magic you can really believe in,” 11th Symposium of Fundação Bial (Invited by Prof. Miguel Castelo-Branco), Porto, Portugal, April 2, 2016.

Plenary, “Hypnosis and Placebo Science” Society for Clinical and Experimental Hypnosis, Annual Scientific Meeting, Orlando, Florida, October 2015.

“Emotional regulation and placebo effects” (invited by Dr. Ralph Adolphs), California Institute of Technology, July 9, 2015.

“From Hypnosis to Placebo Science” (invited by Dr. Jonathan Schooler), University of California, Santa Barbara, Department of Psychology, June 5, 2015.

Plenary, “Brain Science and Cognitive Neuroscience Research”, Friends of Sheba Medical Center Psychiatry (Invited by Dr. Michal Beeri), Los Angeles, CA, May 21, 2015.

“Placebo in Psychological Science (invited by Dr. Alan Castel), University of California, Los Angeles, Department of Psychology. March 2015.

Plenary, “Neuroimaging in Hypnosis Studies” Society for Clinical and Experimental Hypnosis, Annual Scientific Meeting, San Antonio, Texas, October 2014.

Plenary, “Understanding the Placebo Effect in Medicine: Can It Be Used To Treat Urticaria?” Canadian Society of Allergy and Clinical Immunology, 2013 Annual Scientific Meeting, October 4, 2013.

Keynote, “Retraining of Cognitive Function After Acquired Brain Injury: Old Wine in New Bottles?” The 2013 International Neuropsychological Society Mid-Year Meeting, Amsterdam, The Netherlands, July 11, 2013.

Speaker, “The Neural Correlates of Altered Consciousness: From Hypnosis and Meditation to Drug-Based Changes,” Multidisciplinary Association for Psychedelic Studies (MAPS) 2nd International Conference on Psychedelic Science, April 20, 2013.

Speaker, “The Twilight Zone of Hypnosis,” St. Michael's Hospital, National Nursing Week 2013, Toronto, ON, May 10, 2013.

Plenary, “Posthypnotic Suggestion and the Automatic Mental Process,” 55th ASCH Annual Scientific Meeting and Workshop, Louisville, Kentucky, United States, March 18, 2013.

Keynote, "New Directions in Cognitive Neuroscience: From Hypnosis and Meditation to Online Feedback of Brain Activity," Conference of The Israeli Association for Applied Psychophysiology and Biofeedback (IAPB), January 30, 2013.

Chair, Poster Session, "Understanding the Mechanisms of Placebo Responses: The Role of Expectation and Conditioning Across Diseases and Treatments," Tübingen, Germany, January 25, 2013.

Lecture (Invited by Prof. Dr. Robert Jütte), "Placebo Science in North America," Institut für Geschichte der Medizin, Stuttgart, Germany, October 24, 2012.

Lecture (Invited by Dr. med. Karin Meissner), "Top-Down Processes in Medicine," Institute of Medical Psychology, Ludwig-Maximilians-University Munich, Germany, October 23, 2012.

Keynote Address, "Hypnosis and the twilight zone of top-down influences," International Society of Hypnosis XIX International Hypnosis Conference, Bremen, Germany, October 21, 2012

Lecture (Invited by Prof. Andrea Evers), "Pain versus Itch: Psychology and Neuroscience," University of Nijmegen, The Netherlands, October 16, 2012.

Chair, Symposium, "Modulating Automaticity," 63rd Annual Meeting of the Society for Clinical and Experimental Hypnosis, Toronto, ON, October 13, 2012.

Keynote, "Specific versus Non-Specific Brain Mechanisms," University of Zurich Symposium, Beyond the Placebo: Biomedical, Clinical and Philosophical Aspects of the Placebo Effect, Ascona, Switzerland, August 25, 2012.

Keynote, "The Magic of Science and the Science of Magic", Neuromagic – Sleights of Mind, Island of Thought, Redondela, Galicia, Spain, May 7-10, 2012.

Association for the Advancement of Experimental and Applied Hypnosis, Spain. Keynote speaker (Invited Antonio Capafons). *Applied and Theoretical Hypnosis*. Colegio de Psicólogos de Valencia, Spain. December 9, 2011.

Association for the Advancement of Experimental and Applied Hypnosis, Spain. *Pediatric Hypnosis Workshop*. Colegio de Psicólogos de Valencia, Spain. December 7-8, 2011.

McGill on the Move (Invited by Lynn Mark) *On Suggestion and its Powers*. Boston, Massachusetts, November 21, 2011.

Peruvian Society of Psychosomatic Medicine, in conjunction with the Peruvian Society of Psychoneuroimmunology (Invited by Professor Palomino) *Neural Correlates of Mind-Body Regulation*. Peru, November 10-13, 2011.

McGill on the Move (Invited by Lynn Mark) *Placebo Science for the Masses*. Vancouver, Canada, October 19, 2011.

Canadian Society for Brain, Behavior, and Cognitive Science (Invited by Dr. Colin MacLeod). *Inhibition and Attention*. Winnipeg, MB, Canada, June 26, 2011.

British Society of Mental and Dental Hypnosis Workshops. Keynote Speaker, *The Magic and Neuroscience of Hypnosis*. Renfrewshire, Scotland, March 25-27, 2011.

The Society for Clinical and Experimental Hypnosis 61st Annual Workshops and Scientific Program lecture. Keynote Speaker, *Using Hypnosis to Gain Control Over Increasingly Automatic Processes: From Stroop to McGurk*. Boston, MA, USA, November 14, 2010.

American Society for Clinical Hypnosis: 53rd Annual Scientific Meeting and Workshops. Keynote Speaker, *Attention and Brain: Hypnosis and Neuroimaging*. Las Vegas, NV, USA, November 10, 2010.

Annual Rosenthal Meeting, University of Minnesota, Department of Family Medicine (Invited by Dr. Daniel Kohen). Keynote Speaker, *Clinical Aspects of Suggestion*. Minneapolis, MN, USA, October 10, 2010.

University of California, Department of Anaesthesiology (Invited by Dr. ZeevKain). *Hypnotic Science*. Irvine, CA, USA, April 24, 2010.

University of Chicago, Department of Psychology (Invited by Dr. Jean Decety). *Attention and Atypical Attention*. Chicago, IL, USA, April 21, 2010.

Ben Gurion University of the Negev, Department of Bio-Medical Engineering (Invited by Dr. Amir Karniel). *Placebos in biomedical engineering*. Beer Sheba, Israel, December 15, 2009.

American Psychological Association, Division 3 (Experimental) for the 2009 annual meeting (Invited by Dr. Emily Elliott). Keynote Speaker, *Inhibition and Cognition*. Toronto, ON, Canada, August 6–9, 2009.

American Society for Clinical Hypnosis, 51st Annual Scientific Meeting and Workshops. Keynote Speaker, *From Hypnosis to Brain Imaging: The Promise and Caveats of a Science of Suggestion*, Seattle, WA, USA, March 8, 2009.

Foundation for Psychosocial Research, Advanced Study Institute on "Critical Neuroscience" (Invited by Dr. Laurence Kirmayer), *Uncovering Cultural Suggestion in the Human Brain*. UCLA, Los Angeles, CA, USA, January 28–30, 2009.

University of British Columbia, Varieties of Empathy Conference. *Genuine versus Suggested Empathy: Discerning the Differences*. Vancouver, BC, Canada, October 10, 2008.

Technion: Israel Institute of Technology, European Union Training Grant Association on the Lateralized Attention Network Task and its Brain Correlates (Invited by Dr. EranZaidel). Keynote speaker, *The Attention of ANT versus LANT*. Haifa, Israel, September 15, 2008.

Oregon Society of Clinical Hypnosis (Invited by Dr. Edward B. Versteeg). *Hypnosis for Impulse Control Disorders*. Portland, OR, USA, July 18, 2008.

University of British Columbia, Brain Development & Learning: Making Sense of the Science (Invited by Dr. Adele Diamond). Keynote Speaker, *Suggestion and Attention: Strong Modulators of Cognition, Emotion, Thought, and Action*. Vancouver, BC, Canada, July 14, 2008.

Annual meeting of the American Society for Clinical Hypnosis (invited by Dr. Carol Ginendes). Keynote speaker, *Hypnosis as a Clinical Science*, Chicago, IL, USA, March 10, 2008.

The Society of Applied Research in Memory and Cognition (SARMAC-VII) (Invited by GiulianaMazzoni). *Unravelling the neurocorrelates of suggestion*. Lewiston, ME, USA, July 28, 2007.

InstitutoCajal (Invited by Alberto Ferrús). *The Tenuous Notion of Specificity*. Madrid, Spain, July 9, 2007.

Mid-Year Meeting of the International Neuropsychological Society. Keynote Guest in symposium titled Developmental Cognitive Neuroscience of the Executive Function Dependent on the Frontal Lobe: Challenging Long-held Beliefs. *The Developmental Cognitive Neuroscience of Suggestion and its Relation to Improving Attention and Self-Regulation*. Bilbao, Spain, July 6, 2007.

Annual Meeting of the British Society for Experimental and Clinical Hypnosis and the British Society for Medical and Dental Hypnosis (Invited by Dr. M.L. McKenna). Keynote speaker, *Illuminating the Science of Suggestion: Insights from Brain Imaging and Genetics*. York, UK, May 11, 2007.

Oregon Health Sciences University Dental School & Oregon Society of Clinical Hypnosis (Invited by Dr. Edward B. Versteeg). *Unraveling the Neural Correlates of Suggestion*. Portland, OR, USA, April 27, 2007.

Combined Historic Meeting of the American Society for Clinical Hypnosis and Society for Clinical and Experimental Hypnosis (Invited by Dr. Molly Delaney). *Keynote Speaker, Neuroimaging Self-regulatory Processes*. Dallas, TX, USA, January 20, 2007.

Vancouver Coastal Health Research Institute (Invited by Dr. Bernie Bressler). *The Influence of Suggestion: Insights from Neuroimaging and Novel Interventions for Specific Developmental Psychopathologies*. Vancouver, BC, Canada, September 7, 2006.

Nanyang Technological University Department of Psychology (Invited by Dr. Weining Chang). *Lectures on Neural Correlates of Expectation and Suggestion*. Singapore, August 2006.

American Psychological Association, 114th Annual Convention (Invited by Dr. Guy Montgomery). Special guest speaker, *Paying Attention to Suggestion and Expectation in Psychological Science*. New Orleans, LA, USA, August 11, 2006.

University of Connecticut Health Center, Department of Psychiatry (Invited by Dr. Leighton Huey). *Suggestibility, Placebo, and Attentional Training in Child and Adolescent Psychiatry*. West Hartford, CT, USA, May 5, 2006.

National Institute on Drug Abuse, Neuroimaging Research Branch (Invited by Dr. Elliot Stein). *The Cognitive Neuroscience of Suggestion: Conflict Reduction and Psychopathology*. Rockville, MD, USA, April 19, 2006.

48th Annual Scientific Meeting of the American Society for Clinical Hypnosis (Invited by Dr. Julie Linden). Plenary speaker, *Illuminating Hypnotic Suggestions with Brain Imaging*. Orlando, FL, USA, March 26, 2006.

Brown University, Department of Psychology (Invited by Dr. Luis Pessoa). *Suggestion in Cognitive Neuroscience: Conflict Reduction and Psychopathology*. Providence, RI, USA, March 22, 2006.

Harvard University, Department of Psychology (Invited by Dr. Susan Carey). *Suggestion in Developmental Cognitive Neuroscience: From Conflict Reduction to Psychopathology*. Cambridge, MA, USA, March 21, 2006.

Pomona College, Department of Psychology (Invited by Dr. Richard Lewis). *Reducing Conflict in the Human Brain: The Role of Attention, Suggestion, and Expectation*. Pomona, CA, USA, March 9, 2006.

San Diego State University, Department of Psychology (Invited by Dr. Judy Reilly). *Suggestion in Developmental Cognitive Neuroscience: From Conflict Reduction to Psychopathology*. San Diego, CA, USA, March 6, 2006.

University of British Columbia, Children's Hospital (Invited by Dr. Adele Diamond). *Suggestibility, Placebo, and Attentional Training as Applied to Child and Adolescent Psychiatry*. Vancouver, BC, Canada, March 3, 2006.

University of British Columbia, Brain Research Centre (Invited by Dr. Adele Diamond). *Reducing Conflict in the Human Brain: The Role of Attention, Suggestion, and Expectation*. Vancouver, BC, Canada, March 2, 2006.

University of Plymouth, Department of Psychology (Invited by Dr. Tim Perfect). *Attention, Suggestion, and Cognitive Control*. Plymouth, UK, February 18, 2006.

Rice University, Department of Psychology (Invited by Dr. Jim Pomerantz). *Attention, Suggestion, and Cognitive Control*. Houston, TX, USA, January 31, 2006.

Rotman Research Institute at Baycrest (Invited by Dr. Randy McIntosh). *Suggestion and Cognitive Control*. Toronto, ON, Canada, January 23, 2006.

George Mason University, Department of Psychology (Invited by Dr. Raja Parasuraman). *Converging neuroimaging accounts of atypical attention*. Fairfax, VA, USA, December 1, 2005.

Ben Gurion University of the Negev, Department of Bio-Medical Engineering (Invited by Dr. David Golomb). *Biomedical engineering in the service of cognitive neuroscience*. Beer Sheva, Israel, September 19, 2005.

Stanford University, Department of Psychiatry (Invited by Dr. Joachim Hallmeyer). *Imaging atypical attention*. Palo Alto, CA, USA, June 28, 2005.

Tel Aviv University, Department of Psychology (Invited by Dr. Daniel Algom). *Perspectives on automatic processes*. Tel Aviv, Israel, December 2, 2004.

- Ben Gurion University of the Negev, Department of Bio-Medical Engineering (Invited by Dr. Yehuda Zeiri). *Cognitive neuroscience and biomedical engineering*. Beer Sheba, Israel, November 28, 2004.
- Princeton University, Department of Psychology (Invited by Dr. Anne Treisman). *Hypnotic Suggestion reduces cognitive conflict: Converging data from fMRI and ERP*. Princeton, NJ, USA, October 20, 2004.
- Columbia University, Sackler Institute for Developmental Psychobiology (Invited by Dr. Christoph Wiedenmayer). *Hypnotic Suggestion reduces cognitive conflict: Converging data from fMRI and ERP*. New York, NY, USA, September 30, 2004.
- University of California, Center for Brain Mapping, (Invited by Dr. Marco Iacoboni). *Neuroimaging of Suggestion: Converging data from fMRI and ERP*. Los Angeles, CA, USA, September 15, 2004.
- Hebrew University of Jerusalem, Department of Psychology (Invited by Dr. Merav Ahissar). *Cognitive neuroscience of expectation and inhibitory processing*. Jerusalem, Israel, January 4, 2004.
- Hebrew University of Jerusalem, Interdisciplinary Center for Neural Computation (Invited by Dr. Shlomo Bentin). *Overriding Stroop automaticity*. Jerusalem, Israel, January 1, 2004.
- Ben Gurion University of the Negev, Department of Psychology (Invited by Dr. Avishai Henik). *Psychological parameters in inhibitory control*. Beer Sheba, Israel, December 30, 2003.
- Ben Gurion University of the Negev, Institute for Neuroscience (Invited by Dr. Galila Agam). *Neural correlates of altered states of consciousness*. Beer Sheba, Israel, December 29, 2003.
- University of California, Department of Psychology (Invited by Dr. George Sperling). *Atypical Attention*. Irvine, CA, USA, November 26, 2003.
- University of California, Department of Psychology, (Invited by Dr. Joan Stiles). *Developmental Perspectives on Attention*. San Diego, CA, USA, November 25, 2003.
- California Institute of Technology (Invited by Dr. Christof Koch). *Posthypnotic Suggestion Reduces Conflict*. Pasadena, CA, USA, November 24, 2003.
- University of California (Invited by Dr. Eran Zaidel). *Posthypnotic Suggestion Reduces Conflict*. Los Angeles, CA, USA, November 21, 2003.
- Neuro-Psychoanalysis Center of the New York Psychoanalytic Institute (Invited by Dr. Mark Solms). *Neurobiology of Hypnosis*. New York, NY, USA, October 4, 2003.
- New York University, The 4th International Neuro-Psychoanalysis Congress, The Unconscious in Cognitive Neuroscience and Psychoanalysis (Invited by Dr. Mark Solms). *Affecting focal brain activations with a posthypnotic suggestion: Neuroimaging, behavioral, and optical assays with the Stroop task*. New York, NY, USA, July 28, 2003.
- Stanford University, Department of Psychiatry and Behavioral Sciences (Invited by Dr. David Spiegel). *Neural Correlates of Attentional Networks, Posthypnotic Suggestion, and Self-regulation: Illuminating Cognitive Control*. Palo Alto, CA, USA, April 22, 2003.
- Weill Medical College of Cornell University, Center for Integrative and Complementary Medicine (Invited by Dr. Mary Charlson). *Neural Correlates of Hypnotic Self-regulation*. New York, NY, April 3, 2003.
- University of Toronto, Life Sciences Division (Invited by Dr. John H. Youson). *Attention, Hypnosis and the Brain*. Scarborough, ON, Canada, March 12, 2003.
- Winter Conference on Brain Research (Invited by Dr. Patricia S. Churchland). *Decisions and Emotions in the Context of Free Will and Suggestion*. Snowbird, UT, USA, January 27, 2003.
- University of New South Wales, School of Psychology (Invited by Dr. Peter Lovibond). *Hypnotic Manipulations as Attentional Probes*. Sydney (NSW), Australia, December 20, 2002.
- Macquarie University, Macquarie Centre for Cognitive Science (Invited by Dr. Max Coltheart). *Seeing English Stroop Words in Chinese*. Sydney (NSW), Australia, December 18, 2002.
- University of Queensland, School of Psychology (Invited by Dr. Deborah J. Terry). *“Unreading” Stroop Words Using an Attentional Modulation*. Brisbane (QLD), Australia, December 13, 2002.
- University of Waterloo, Psychology Department (Invited by Dr. Derek Besner). *Top-down modulation of 'automatic' processes: behavioral, optical and fMRI data of Stroop performance under posthypnotic suggestion*. Waterloo, ON, Canada, September 26, 2002.

- University of Toronto at Scarborough Division of Life Sciences (Invited by Dr. Colin Macleod). *Hypnotic Modulation of Stroop Interference: Behavioral and fMRI Accounts*. Scarborough, ON, Canada, September 25, 2002.
- Krasnow Institute for Advanced Study of George Mason University (Invited by Dr. Barbara Given). *The Effects of Posthypnotic Suggestion on Reading Stroop Words*. Fairfax, VA, USA, May 15, 2002.
- University of Tennessee at Knoxville, Department of Psychology (Invited by Dr. Michael Nash). *Eliminating Reading of Stroop Words: Behavioral and fMRI Accounts*. Knoxville, TN, USA, April 25, 2002.
- University of South Florida, Department of Psychology (Invited by Dr. Emanuel Donchin). *Modulation of Stroop Interference: Behavioral and fMRI Accounts*. Tampa, FL, USA, April 22, 2002.
- University of Dublin, Trinity College, Department of Psychology (Invited by Dr. Ian Robertson). *Critical Thinking*. Dublin, Ireland, April 17, 2002.
- Second Joint Symposium on Frontiers In Computational Neuroscience Caltech – Hebrew University (Invited by Drs. Idan Segev & Christof Koch). *Modulation Reading by Posthypnotic Suggestion: Behavioral and Neuroimaging Data*. Pasadena, CA, USA, March 13, 2002.
- Harvard University, Graduate School of Education (Invited by Dr. Howard Gardner). *Is Word-reading an Automatic Process? Data from Modulation of Stroop Interference by Posthypnotic Suggestion*. Cambridge, MA, USA, February 8, 2002.
- Scripps College of the Claremont Colleges, Department of Psychology (Invited by Dr. Sheila Walker). *Cognitive Neuroscience in the context of Suggestion*. Claremont, CA, USA, January 29, 2002.
- University of South Alabama, Department of Psychology (Invited by Dr. Lisa Turner). *Stroop Interference and Hypnotic Suggestion*. Mobile, AL, USA, January 22, 2002.
- University of California, Berkeley, Institute of Personality and Social Research (Invited by Dr. Leon Y. Deouell). *Post-hypnotic Suggestion as Top-down Intervention*. Berkeley, CA, USA, November 29, 2001.
- Stanford University, School of Medicine, Department of Psychiatry & Behavioral Science (Invited by Dr. David Spiegel). *Hypnotic Manipulations as a Probe into Cognitive Questions*. Palo Alto, CA, USA, November 27, 2001.
- University of California, School of Medicine, Sleep Laboratory (Invited by Dr. John Peever). *Degradation of Cognitive and Pre-attentive Performance as a Function of Sustained Wakefulness*. Los Angeles, CA, USA, November 26, 2001.
- 52nd Annual Meeting of the Society for Clinical and Experimental Hypnosis (Invited by Dr. Arreed Barabasz). *Modulation of Stroop Interference by Hypnotic Suggestion*. San Antonio, TX, USA, November 11, 2001.
- University of Massachusetts, Shriver Center, Center for Developmental Cognitive Neuroscience (Invited by Dr. Adele Diamond). *Hypnotic Suggestion and the Modulation of Stroop Interference*. Waltham, MA, USA, May 2, 2001.
- Princeton University, Department of Psychology (Invited by Dr. Anne Treisman). *Recruiting Hypnosis to Illuminate Cognitive Questions*. Princeton, NJ, USA, March 15, 2001.
- University of Turku (Invited by Dr. H. Hämäläinen). *MMN and Altered Consciousness*. Turku, Finland, December 2000.
- University of Barcelona, Second International Conference on Mismatch Negativity – MMN 2000. *MMN Under Sleep Deprivation*. Barcelona, Spain, October 2000.

2.6 Research Trainees Supervised

My laboratory hosts a large array of experimental methodologies and accordingly accommodates multiple students – spanning the whole gamut from undergraduate through graduate all the way to post-doctoral – in addition to medical students, residents, visiting scholars, technicians and other research personnel. Thus, my lab comprises a vast and interdisciplinary collection of training opportunities drawing on multiple research questions, diverse experimental methods, computing platforms, and scientific domains. Undergraduates usually comprise honors students working on a thesis. I thrive on

good students and dedicate a considerable part of my time and energy to nurturing, teaching, training and working along students at all levels. In this regard, I view my students as the real backbone to discovery and innovation. Most of my trainees have gone on to academic careers, joined industry, started their own company, or took on a profession. I consider training young scientists as one of the great privileges and obligations of my profession. Working with them, therefore, I aspire to offer a supportive but challenging learning experience through which students and fellows can familiarize themselves with the scientific method while realizing their potential both personally and academically. A partial list of my past (*) and current students follows:

Postdoctoral Fellows:

Amir, Nadav, PhD (2020 - present)

Project: *Bridging first and third-person perspectives in the study of consciousness and free-will*

*Appourchaux, Krystèle, PhD (2013–2014)

Project: *Neurophilosophy in cognitive neuroscience*

Dominik, Tomáš, PhD (2019 - present)

Project: *Reliability of introspective reports of motor intention or the origins of brain potentials preceding voluntary movements*

*Harris, Cory, PhD (2009–2013)

Project: *Placebo effects and placebo responses*

Awards/grants: Co-applicant for SSHRC grant, CIHR: Master's Award, Banting 2011 Tri-council post-doctoral award.

*Mathieu Landry, PhD (2016-2019)

Project: *EEG, TMS, and Consciousness*

Awards/grants: Tri-council post-doctoral award.

Nizzi, Marie-Christine, PhD (2019 - present)

Project: *Understanding what enables certain persons to better integrate life changing events or diagnoses into their narrative*

Visiting Fellows:

*Braude, Hillel, MD (2010–2012)

Former Postdoctoral fellow (2009-2010)

Project: *Bioethics in deceptive situations*

Awards/grants: Brain Matters conference presentation prize (2011).

*Pérez Hernández, Elena, PhD (2009–2010)

Project: *Attention training and cognitive remediation*

Awards/grants: 2009/10 Fellowship José Castillejo for Young Researchers, supported by the Spanish Government.

*Devin Terhune, PhD (2013)

Project: *MEG imaging and cognitive control*

Awards/grants: University of Oxford, UK

Resident:

*Biskin, Robert, MD (2009-2011)

Project: *Borderline personality disorder in adolescence*

Doctoral:

Chavez, Caitlyn, B.S. (2018 - present)

Project: *Deep learning, computer vision, and signal processing in solving problems in precision medicine and biomedical imaging*

Gavenas, Jake, B.A. (2018 - present)

Project: *Neural mechanisms of voluntary action, the timing of unconscious and conscious factors in decision making, and mathematical and computational modeling of these phenomena*

Jeay-Bizot, Lucas, M.A. & M. S. (2018 - present)

Project: *Investigate aspects of voluntary actions using EEG*

Landry, Mathieu (2013–present, Psychology)

Project: *Mind and consciousness in neurophilosophy*

Awards/grants: FRSQ, NSERC

Lashgari, Elnaz, B.S & M.S. (2018 - present)

Project: *Developing machine learning algorithms with application in computational neuroscience*

Liang, Andy (2018 - present)

Project: *Computational methods in neuroscience and deep learning*

Lifshitz, Michael (2013–present, Integrated Program in Neuroscience)

Project: *Mind and life, contemplative practice, and neuroscience*

Awards/grants: Vanier; Mind & Life; Internal; Boris Muskatov Prize in Psychology 2009–2010; Hope Barrington Scholarship 2009–2010; Dean's Honour List 2009–2010; NSERC M.Sc. award, Mind and Life Research Fellowship.

*Miguel Moreno-Iñiguez, MD (2006–2010, PhD)

Project: *Attention regulation in child psychiatry*

Awards/grants: Alicia Koplowitz Award in Pediatric Psychiatry

*Thibault, Robert (2015–present, Integrated Program in Neuroscience)

Project: *1. Posture alters human resting-state; 2. Neurofeedback and the self-regulating brain: experimental science and clinical vogue*

Awards/grants: NSERC CSG doctoral award (2015-2018)

*Wolfson, Joanna (2007–2013, PhD)

Project: *Neuropsychanalysis*

Wong, Alice, B.A. (2018 - present)

Project: *Characterising the extent of how random human generated sequences can be and the neuroscience and temporal dynamics of voluntary action*

Masters:

*Abbey, Erica (2010–2012, B.Sc., M.Sc. Psychiatry)

Projects: *1. The effect of the consent form: Using wisdom tooth extraction as a lens; 2. A sense of control: A look into the dental button*

Awards/Grants: Dean's Honor List 2009–2011

*Ali, Sabrina (2009–2012, B.A.&Sc., M.Sc. Psychiatry)

Project: *Neural correlates of thought*

Awards/Grants: Max Planck Institute Travel Fellowship

*Aubert Bonn, Noémie (2011–2013, M.Sc. Psychiatry)

Projects: *Influencing motion perception with suggestion*

*Blinderman, Ilia (2011–2012, M.Sc. Psychiatry)

Project: *Neurocognitive correlates of lactose intolerance*

*Campbell, Natasha (2007–2010, B.Sc., M.Sc. Psychiatry)

Project: *The use of placebos in clinical practice, and attitudes in medicine*

Awards/grants: Co-applicant for SSHRC grant

*Champigny, Claire (2012–2015, B.A., M.Sc. Psychiatry)

Project: *Attention training in health and disease*

*deJong, Veronica (2009–2012, B.A.&Sc., M.Sc. Psychiatry)

Project: *Working towards policy recommendations for the use of placebos in clinical psychiatry*

Awards/grants: Co-applicant on SSHRC grant, Canadian Institutes of Health Research: Master's Award

*Demacheva, Irina (2009–2012, B.A. Hons, M.Sc. Psychiatry)

Projects: 1. *Survey on cognitive mechanisms underlying magic tricks (for adults and children)*; 2. *Implication of neuroscience to youth justice*

Awards/grants: Bertha Lapitsky Award for Developmental Psychology

*Jihoon, Jung (Spoon) (2012–2015, B.A.)

Project: Using eyetracking to elucidate the relationship between attention and expectation

Awards/grants: Graduate Excellence Award

*Lifshitz, Michael (2009–2013, B.A. Hons, Integrated Program in Neuroscience)

Project: *Expectation, empowerment and automatic processing using the McGurk task*

Awards/grants:

Napoleon, Jenilee-Sarah (2013–present, B.A.)

Project: *Attention training in health and disease*

*Oksenhendler, Rebecca (2012–2015, B.Sc., M.Sc. Psychiatry)

Project: Using Psychosocial Factors to Mediate Chronic Hives in Children and Adults

Awards/grants: Faculty of Science Dean's List of Multidisciplinary Research

*Olson, Jay (2013–2015, B.A., M.Sc. Psychiatry)

Project: *Using magic to influence decisions without awareness*

Awards/grants: NSERC CGS-M 2013

*Rabipour, Sheida (2010–2012, B.Sc., M.Sc. Integrated Program in Neuroscience)

Project: *Attention training intervention research*

Awards/grants: Graduate Research Enhancement and Travel (GREAT) Award

*Schwartzman, Deborah (2006–2008, BSc, M.Sc. Counselling Psychology)

Project: *Neural and psychological mechanisms of Tourette syndrome*

*Sheiner, Eli (2013–2015, B.A.)

Project: 1. *Entheogenic ontologies and epistemologies: Canadian discourses on ayahuasca*; 2. *Transcultural shaping of hypnosis in Japan*; 3. *Hypnotic suggestibility predicts subjective response to a placebo sedative.*

Awards/grants: Graduate Excellence Award in Psychiatry, 2012-2013

*Thibault, Robert (2011–2015, B.Sc., M.Sc. Integrated Program in Neuroscience)

Project: 1. *Posture alters human resting-state*; 2. *Neurofeedback and the self-regulating brain: experimental science and clinical vogue*

Awards/grants: FRQNT Master's award (2015), Dean's Honour List for Undergraduate Science (2009-2012), Dean Interdisciplinary Undergraduate Research List (2012), First Class Honours (2012), McGill Mobility Award (2011).

*Whatley, Benjamin (2008–2011, M.D./Ph.D. program – ended with M.Sc.)

Project: *Placebos and TMS*

Awards/grants: CIHR grant to M.D./Ph.D. students at McGill.

Post-Baccalaureate:

Connely, Akima, B.S. (2020 - present)

Project: *Motion imagery and real-times systems*

Gregory, Jackson, B.A. (2018 - present)

Project: *Consciousness and brain damage and functioning*

Kim, Thomas (2020 - present)

Project: *Neural mechanisms of voluntary actions and perception*

Hopkins, Amber, B.A. (2019 - present)

Project: *Consciousness, philosophy of mind, sensation and perception*

Pak, Joanna, B.S. (2020 - present)

Project: *EEG and TMS to study brain activity at rest and before volitional actions*

Awards: *2020 SURF grant; 2020 CUE grant*

Schurger-Foy, Adrien (2020 - present)

Van der Hoeven, Lexi, B.S. (2020 - present)

Project: *EEG decoding decisions as they are made using brain signals*

Undergraduate:

*Albert, Derek (2013–2014, B.A.)

Project: *Developing an Online and Offline Pupil-Size Analysis Tool*

Awards/Grants: *Mitacs Accelerate*

Ayala, Jeremiah (2019 – present, B.A.)

Project: *Exploring cognitive aspects of body ownership*

Berg, Anne (2019 – present, B. A.)

Project: *The Suggestible Brain*

*Blanchard, Tamar (2013–2014)

Project: *Spirituality, prayer frequency, and hypnotizability*

Awards/grants: *Dean's list.*

Chen, Emma (2019 - present, B.S.)

Project: *EEG biofeedback, microdosing, TMS-agency*

*Corber, Liana (2012–2015)

Project: *The psychological components of lactose intolerance*

Awards/grants: *Dixie Park Science Undergraduate Research Award (2014), Celia Hendler Scholarship in Psychology (2014-2015), NSERC (2015)*

*Cukier, Olivia (2007–2008, B.A.)

Project: *Placebo surveys*

*Delpero, Emily (2011, B.Sc.)

Project: *Placebo effects in children vs. adults: Using asthma as a model*

Awards/grants: *NSERC USRA 2011*

*Déry, Catherine (2007–2009, B.A.)

Project: *Deautomatization: the top-down influence of the McGurk effect*

Awards/grants: *NSERC Summer Award*

*Dossa, Fahima (2008–2010, B.Sc.)

Project: *Interaction of posture and cognition in brain imaging*

Everett, Nate (2019 - present, B. S.)

Project: *The clever hans: Pupillary change after decision making tasks*

*Fischer, Alexandra (Hallie) (2010–2011, B.Sc. Hons)

Project: *Expectation, empowerment and automatic processing using a motion tracking task (MoTraK)*

*Fridman, Marina (2007–2009, B.Sc.)

Project: *Attention training*

Ghods, Kayla (2019 – present, B.S)

Project: *The clever hans: Pupillary change after decision making tasks*

*Golinski, Rose (2008–2010, B.Sc.)

Projects: *Attention training in preschool-aged children with impulse control disorders*

Awards/grants: *Second prize for Scientific Oral Presentation at the 2009 Annual LDI/JGH Student Research Day*

*Gong, Rui (2009–2010, B.Sc.)

Project: *How knowledge affects the actions of a pill*

*Guindi, Daniella (2007–2009, B.Sc.)

- Project:** *Studying the role of response expectancies and suggestion in eliciting placebo effects*
- Gutierrez, Brenda (2018 – present, B.S.)
Project: *Investigation of intention and agency using TMS; Psilocybin microdosing in healthy volunteers : Comparative effects on sleep, brain activity, psychosocial, and cognitive functioning*
- Harder, Kate (2018 – present, B.S.)
Project: *Pupillometric investigation of spontaneous action and intention awareness*
- *Hojabri, Sara (2013–2014, B.A.& Sc.)
Project: *The psychological components of lactose intolerance*
- *Howells, Catherine (Kate) (2009–2011, B.A.)
Project: *Expectation, empowerment and automatic processing using the McGurk Task*
Awards/grants: Marion McCall Daly Award, Dean's Honour List 2010
- Kolinsky, Steven (2019 - present, B.A.)
Project: *Covert import of attention; Investigating the psycho-physiological effects of floatation*
- Krivoshein, Emma (2019 – present, B. A.)
Project: *Neuromodulators of integration: A TMS-EEG-Pupillometry study*
- *Lau, Stephanie (2009–2010, B.A.&Sc.)
Project: *Meditation and hypnosis*
Awards/grants: Science Undergraduate Research Award
- *Lifshitz, Guy (2010–2011, B.Sc.)
Project: *Computer animations for attention training*
- *Macdonald, Ethan (2012–2014, B.Sc.)
Project: *Tourette's Syndrome*
Grants/awards: NSERC 2014, George and Lydia Petras Scholarship in Science 2013
- *Maclean, Catherine (2014-2015, B.A.&Sc.)
Project: *How suggestibility may influence airway response*
- *Maggio, Vanessa (2010–2011, B.A.)
Project: *How pill color and choice affect the actions of a pill*
- *McClemon, Laura (2010–2011, B.Sc.)
Project: *How pill color and choice affect the actions of a pill*
- *Metcalf, Rebecca (2009–2010, B.A.)
Project: *Cognitive profile of failure to thrive children*
- Moss, Ruby (2018 – present, B.A.)
Project: *Investigation of intention and agency using TMS; Psilocybin microdosing in healthy volunteers: Comparative effects on sleep, brain activity, psychosocial, and cognitive functioning*
- *Ng, Victoria (2009–2010)
Project: *Attention training intervention research*
- Pikover, Gilana (2018– present, B.S.)
Project: *The clever hans: Pupillary change after decision making tasks*
- *Pogossova, Galina (2009–2011, B.A.)
Project: *Attention and Hypnosis*
- Portillo, Paola (2019 – present, B.S.)
Project: *The clever hans: Pupillary change after decision making tasks*
- Ravitch, Hannah (2019 – present, B.A.)
Project: *The Suggestible Brain*
- Richard, Natalie (2019 – present, B.S.)
Project: *Machine-learning based EEG neurofeedback for depression treatment*
- *Sheiner, Eli (2011–2013, B.A.)

- Project:** *Investigating the effects of non-deceptive placebo administration*
Theriault, Remi (2013–present, B.A.)
Project: *How suggestibility may influence airway response*
Grants/awards: Arts Research Internship Award (ARIA)
- Tolia-Shah, Maila (2019 – present, B.S.)
Project: *Investigation of intention and agency using TMS*
- Tse, Ayla (2014–present, B.Sc.)
Project: *Effects of suggestion on motor cortex excitability*
- *Turkakin, Esin (2011-2012, B.Sc.)
Project: *Asthma and placebo*
- *Walpola, Ishan (2013–2014, B.Sc.)
Project: *Posture and the brain's resting state*
Grants/awards: Mind and Life Summer Research Institute Research Fellow
- *Yuen, Constance (2010–2012)
Project: *Attention training intervention research*
- *Zenetzis, Claudia (2008–2010, B.A.)
Project: *Meta-cognitive influences on the placebo effect*
- *Zhang, Jane (2013–2015, B.Sc. hons)
Project: *A Pupillometry Investigation of Visual Attention via the 3-card Monte*
- Zhu, Nancy (2020 – present, B.S.)
Project: *Investigating the psycho-physiological effects of floatation*
- *Zigman, Philip (2008–2011, B.A.)
Project: *Free will and impaired volition*
- *Zuckerman, Anna (2010–2012, B.Sc.)
Project: *A Case Study of Attention Training in One Neuropsychological Patient*
- Summer Interns:**
- *Bowles, Elizabeth Nellie (2009 coming from Columbia University)
Project: *Pediatric hypnosis*
- *Howitt, Aliza (2011, coming from Tufts University)
Project: *Pediatric hypnosis*
- *McAllister, Brittany (2010, coming from Hobart and William Smith Colleges)
Project: *Psychosexual aspects of breast cancer treatment*

Beyond my training and supervisory experience in the past four years, outlined above, I mentored an additional 12 undergraduate and graduate students and 2 post-doctoral students during my tenure at Columbia and Cornell.

3. OTHER CONTRIBUTIONS

3.1 Overarching View

My contributions to the University, Department, and Community echo my personal outlook and what I consider to be the responsibilities of any member of the academic community. Beyond my professional position as educator, teacher, scholar, researcher, and scientist I aspire to be a mentor, facilitator, colleague and role model while filling the interstices with humanism and leading by example.

3.2 Outside McGill University

Editorial Position and Editorial Boards

1. Editor-in-Chief, *Journal of Mind-Body Regulation* 2011–present
(MBR, University of Calgary Press)
Responding to an invitation from University of Calgary and with the mandate of the Canadian Federation of Hypnosis, I accepted to lead MBR. My responsibilities include the entire spectrum of running a scientific publication plus crafting, designing, and launching this new peer-reviewed journal. I have obtained funding and recently completed the first volume (2011) – comprising three issues and about 40 items. I spend about one hour per day on MBR editorial duties.
2. Associate Editor, *Frontiers in Psychoanalysis and Neuropsychology* 2010–present
3. Associate Editor, *Frontiers in Human Neuroscience* 2010–present
I spend about two hours per week on editorial duties related to Frontiers.
4. Editorial Board, *PsycCRITIQUES—Contemporary Psychology* 2009–present
I spend about one hour per week on these editorial duties.
5. Invited Editor April, 2011
At the request of Dr. Joel Paris, Editor-in-Chief of the *Canadian Journal of Psychiatry*, I edited a special issue devoted to placebos in psychiatry (2011). The result generated much media coverage, including in the *Globe & Mail*, *National Post*, and CBC Radio (see below).

American Board of Psychological Hypnosis (ABPH) 2008–present
Official Examiner for 1.American Psychological Association; 2.American Society of Clinical Hypnosis; 3.Society of Clinical & Experimental Hypnosis; 4.National Register of Health Service Providers in Psychology.
Responsibilities include composing, administering, scoring, and reporting the results of oral and written board examinations of the ABPH at regional, national, and international conferences and by appointment. Examinations take about a day to prepare, a day to administer, and a couple of hours to score. Average load is five applicants per year.

Secretary of the Society for Clinical and Experimental Hypnosis 2008–2010
Responsibilities included bi-monthly two-hour teleconferences, providing minutes of meetings, reviewing ABPH applications, compiling statistics and interfacing with the media, as well as liaison to the world's largest general scientific society – the American Association for the Advancement of Science (AAAS).

Society for Social Neuroscience 2010–present
Launched on 20 January 2010, the Society for Social neuroscience aims to elucidate how biological systems implement social processes and behavior, and how these social structures and processes impact the brain and biology (<http://S4SN.org>). Together with neuroscientists from the University of Chicago, we continue to invest time and effort to shape this fledgling society and work closely with other members to forge a meaningful area of new scientific discoveries.

National and International Grand Rounds (Partial List)

Tel Aviv University (Invited by Daniel Algom). Expectation and top-down modulation in cognitive neuroscience. September 22, 2013

Rotman Institute Grand Rounds (Invited by Rosanna Olsen). *Perspectives on Placebo Science*. Toronto, September 19, 2011

Hospital for Sick Children, Department of Psychiatry Grand Rounds (Invited by Dr. Pier Bryden). *Neuroimaging and Novel Interventions for Developmental Psychopathology*. Toronto, ON, Canada, February 7, 2008.

University of Michigan, School of Medicine, Department of Psychiatry Grand Rounds, (Invited by Dr. Israel Liberzon). *Suggestion Reduces Conflict in the Human Brain: Converging Neuroimaging Accounts*. Ann Arbor, MI, USA, September 4, 2007.

Weill Medical College of Cornell University, Psychiatry Grand Rounds (Invited by Dr. Jack D. Barchas). *Attention, Hypnosis and the Brain*. New York, NY, USA, March 4–5, 2003.

Creedmoor Psychiatric Center, Grand Rounds (Invited by Dr. Ralph Klein). *Hypnotic Suggestion reduces cognitive conflict: Converging data from fMRI and ERP*. New York, NY, USA, September 23, 2004.

Organization of International Symposiums & Workshops

Chief Organizer:

Scientific Co-Chair, American Society of Clinical Hypnosis 2013 Annual Scientific Meeting and Workshop, Louisville, Kentucky, United States, March 15-19, 2013.

Organizer, Joint Annual Scientific Program, 63rd Annual Meeting of the Society for Clinical and Experimental Hypnosis, Toronto, ON, October 12-14, 2012.

Cognitive Neuroscience Society Symposium on Attention (May 5–8, 2007), New York, NY, USA. Hosting multiple speakers and hundreds of audience guests this symposium launched the field of Atypical Attention, a term Michael Posner and I have coined in 2002.

Co-Chief Organizer:

International Workshop on Pediatric Hypnosis – American Society of Clinical Hypnosis, Chicago, IL – March 9, 2008. Organized the science/research workshops, consisting of ten panel discussions, fifteen presentations and 200 attendees.

Co-organizer:

Dartmouth (Tahoe) Summer Institute in Cognitive Neuroscience (2003); Winter Conference on Brain Research (2003); The fMRI Experience IV (2002); Joint Symposium on Frontiers In Computational Neuroscience Caltech—Hebrew University (2002); Princeton Workshop on BrainVoyager 2000 (2001); Cold Spring Harbor Workshop on the Biology of Developmental Disabilities in Children (2001); Dartmouth Workshop on Developmental Cognitive Neuroscience (2000); Pediatric Hypnosis Workshop offered by the Society for Developmental and Behavioral Pediatrics (2000).

Journal Review:

I am a regular reviewer of scientific articles and research proposals, including for some of the top professional journals and flagship federal agencies in North America, Europe, and Israel. I review about two manuscripts per week, spending about one-to-two hours per review. Selected journals for which I have reviewed over the past five years include:

Science, Nature, Nature Neuroscience, Neuron, Proceedings of the National Academy of Science, Archives of General Psychiatry; Biological Psychiatry; Behavioral and Brain Sciences; Journal of Cognitive Neuroscience; NeuroImage; Neuropsychopharmacology; Abnormal Psychology; Psychophysiology; Journal of the International Neuropsychological Society; Psychological Science; Psychological Review; Memory & Cognition; International Journal of Clinical and Experimental Hypnosis; American Journal of Clinical Hypnosis; Consciousness and Cognition.

Peer review committees (at McGill)

Ad Hoc member:

Austrian Science Fund	2012-2013
Discovery grants NSERC	2010–2011

Behavioral Science C CIHR	2010–2011
Developmental cognitive neuroscience Jose Castillejo Foundation (Spain)	2009–2010
Top-down control, The Netherlands Organisation for Scientific Research	2009
Differentiating the function of attention in skill learning NSF	2009
Cognitive Mechanisms of Voluntary Control NSF	2008

Regular member

Section on Neuroscience (Dr. Tamar Jaffe-Mittwoch, Director General) Israel Science Foundation	2007–2011
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Reviews typically entail one-to-two days of meetings going over grants responding to a specific call for proposal or area of expertise.

Scientific Advisor

I have served as an unpaid “Scientific Advisor”, for a lack of a better term, for several institutions around the world. Examples of these institutions and associated responsibilities include: 1. The Interdisciplinary Center for Neural Computation at the Hebrew University of Jerusalem and the Center for Biomedical Engineering at Ben Gurion University (Israel) where I visit about three days each year and informally consult on student projects; 2. The Center for Cognitive and Social Neuroscience at the University of Chicago (USA) where I have been anointed “Affiliate Lab Member,” continue to develop a programmatic research direction into affective neuroscience, serve as one of the external referees for their annual conference, evaluate poster and oral presentations, and provide feedback on new courses and research directions; 3. Fairleigh Dickinson University (NJ, USA) where I advise doctoral students and consult on course development and research theses; 4. The Program in Cognitive Neuroscience at Nanyang Technological University (Singapore) where I periodically conduct three-day workshops on cognitive neuroscience and sketch didactic blueprints for collaborative mini-projects.

Memberships

American Psychological Association (APA) – organized special panels and symposiums on the science of suggestion (2007–2008); American Psychological Society (APS) – composed a white paper on the proper use of hypnosis and the caveats of stage hypnosis (2009); Cognitive Neuroscience Society (CNS) – member of the poster committee and the travel award committee (2005–2007); Human Brain Mapping (HBM) – poster referee (2002–2004); Society for Clinical and Experimental Hypnosis (SCEH) – secretary (2008–2010) and Director of Research (2011); American Society for Clinical Hypnosis (ASCH) – Special Consultant to the Task force on Hypnosis Research (2010–2011); Society for Neuroscience (SfN) – member at large.

Community Outreach**Attention Training at Akiva School of Westmount and Jewish People’s and Peretz Schools (JPPS)**

As part of a knowledge dissemination trajectory and a translational thrust from the lab to the classroom, my graduate students and I have approached the Akiva School of Westmount (450 Kensington, Westmount, Québec, H3Y 3A2, Tel: (514) 939-2430, www.akivaschool.com) – the first school in Canada to incorporate, as of September 2011, our state-of-the-art attention training research program for children. This outcome was a result of team-building and considerable research in the lab now ready to launch into an ecological setting. We have since extended an improved training program to JPPS.

Westmount Science Camp

Brain and attention training of campers as a pro bono service to the community and for the advancement of science.

Synapse program

Synapse is a meeting place between CIHR-funded health researchers and Canadian youth. It's specifically designed to motivate students to consider the value of science for the overall well-being of people, and also stimulate their interest in health research as a career. To achieve this goal, Synapse encourages CIHR-funded researchers, graduate students and postdoctoral fellows to become mentors by passing on their passion for health research to young Canadians. Since its inception in 2006, over 7,000 Synapse mentors have signed up. I am a proud member, especially when my young protégées win regional and national prizes (e.g., Sarah Milton from *Ms. Edgar and Ms. Cramp's School for Girls* received second prize in the 2011 Canada-wide Virtual Science Fair – www.virtualsciencefair.com).

Involvement in public, private, or non-profit sector activities

Neuroscience, psychology, and psychosocial aspects of medicine lectures to lay audiences, schools, and advocacy groups. Members of my lab and I teach at the McGill-run Explorations Summer Camp (<http://www.education.mcgill.ca/explorations>).

Popular Lectures

St. James Literary Society. *The Science and Fad of Hypnosis*. Montréal, QC, Canada, November 29, 2011 and April 15, 2013.

The Segal Cancer Centre of the Jewish General Hospital. One in Three Inaugural Lecture Series.

Keynote speaker, *How and does mind-body medicine work?* Montréal, QC, Canada, June 2, 2011.

The Argyle Institute of Human Relations (Invited by Dr. Carmela Mindel & Dr. Edna Mendelson).

Keynote Speaker, *Innovations in Attention for Clinicians*. Montréal, QC, Canada, April 28, 2011.

Northumberland Learning Connection, Your Brain on Color ; 2011 annual meeting (Invited by Dr.

Joanne C.A. Bonebakker). Keynote speaker, *Perceiving Colour: why your brain matters more than your eyes*. Toronto, ON, Canada, April 21, 2011.

Rubin Museum of Art, Brainwave: Annual Series of Programs Exploring the Intersection of Art, Music, Meditation, and the Mind (Invited by Tim McHenry). *Bedtime Hypnotism*. New York, NY, USA, February 27, 2011.

Saturday Science Circus, Wong Material Science Building (Invited by Dean Martin Grant). *Hypnosis and the Brain*. Montréal, QC, Canada, November 7, 2009.

Northumberland Learning Connection, Memory, Attention and Consciousness; 2009 annual meeting (Invited by Dr. Joanne C.A. Bonebakker). Keynote Speaker, *Attention and Emotion*. Toronto, ON, Canada, November 2009.

Rubin Museum of Art, Brainwave: Annual Series of Programs Exploring the Intersection of Art, Music, Meditation, and the Mind (Invited by Tim McHenry). *A Science of Meditation*. New York, NY, USA, March 22, 2009.

Media**Science in the Media**

Popular descriptions of neuroscience often serve to enthrall more than to explain. Sensational reports can be harmful because the public, and even some scientists, typically learn about scientific discoveries through the penmanship of popular science writers. Some researchers find it difficult to communicate their findings using a vernacular and tenor accessible to a wide lay audience and the general public usually lacks the expertise, time, or motivation to carefully comb through the original scientific accounts. Over the past decade I have therefore dedicated considerable time and resources to working with representatives of the media to promote responsible and judicious popular reporting of science with

a special emphasis on neuroscience. Towards this end, I make efforts (e.g., through collaborations with McGill's Office for Science & Society) to educate the public as well as members of the press. See, for example, a special placebo program on CBC (*The Nature of Things* with David Suzuki – debut October 24, 2013).

Sampling of Media Exposure (out of over 80 appearances)

Press: *PLoS Medicine* and *PLoS ONE NeuroTribes*, *Venerdì di Repubblica* (Italy), *Globe & Mail* (Canada), *New York Times* (e.g., lead article in the Science Section Nov. 22, 2005), *APA Monitor* (e.g., lead cover story March 2006), *Science News* (e.g., March 18, 2006), *Newsweek*, *Science*, *Nature*, *Lancet*, *Scientific American* (e.g., April 24, 2006), *Washington Post*, *Los Angeles Times*, *International Herald Tribune*, *Psychiatric Times*, *Baltimore Sun*, *The Times* (UK), *New Scientist* (UK), *Der Spiegel* (Germany), *Die Woche* (Germany), *El Mundo* (Spain), *El Pais* (Spain), *LaNacion* (Argentina), *Ha'aretz* (Israel).

Television and Radio: National Geographic (e.g., hosted a commissioned series: *Into the Brain* 2011); Télé-Québec (Canada), BBC (UK), ABC (USA), National Public Radio (USA), WKCR (USA), The Discovery Channel (USA), Korean Broadcasting System (South Korea), DBS-Yes TV (Israel), Science channel (Israel), CJAD (Montréal).

3.2 Within McGill University

Board of Governors

2010–2013

Member of the Board of Governors (BOG), McGill University
Elected in Fall 2009 to a three-year term as one of two academic staff representatives out of 25 BOG members. The BOG meets at the call of the Chair or Vice Chancellor; meeting frequency is variable but usually calls for ten four-hour sessions per academic year. The responsibilities of a University Governor go beyond attendance, however, and include considerable preparation time in advance of each meeting (e.g., going over documents and minutes), participation in multiple University functions, governance workshops, professional retreats, and informal meetings. In addition, I sit on the BOG Finance Committee, which meets an additional eight times per year for about three hours per meeting.

McGill University Senate

2010–2013

Representative of the Board of Governors on Senate, McGill University
Elected in 2010 for a renewable one-year term for up to three years. Responsibilities include attending ten meetings (each mandated not to exceed four hours) per academic year, preparing for the sessions, and participating in relevant discussions and committees.

McGill Association of University Teachers (MAUT)

2010–2013

Involvement in the spectrum of issues associated with regulations and policies governing every aspect of University life. Responsibilities include Pre-Senate and pre-BOG meetings (about 2 additional hours per each BOG and Senate meeting).

Invited Editor

November, 2008

Responding to an invitation from the Dean of Medicine at McGill, I accepted to guest edit the *McGill Journal of Medicine*. I compiled a special issue devoted to placebos in medicine and solicited contributions from some of the top placebo researchers in the world. A glance at Web of Science reveals that this issue is the most popular MJM release.

Popular Lectures

McGill University Science Outreach Day. *Higher Brain Functions and Cognitive Neuroscience*. Montreal, QC, Canada, October 25, 2011.

McGill Mini-Science Series: Better living through chemistry?, Faculty of Science. *From the chemistry of chicken soup to the chemistry of the brain and behaviour*. Montréal, QC, Canada, March 23, 2011.
 McGill Psychology Students' Association (MPSA) lecture event. *The Psychology of Magic*. Montréal, QC, Canada, March 10, 2011.

McGill Society Public Lecture Series, Robert Vogel lecture. *The Power of Persuasion*. Montréal, QC, Canada, February 17, 2011.

McGill University Science Undergraduate Society Academia Week. *Attention and Magic*. Montréal, QC, Canada, January 25, 2011.

McGill Society Public Lecture Series, *Hypnosis and the Brain*. Montréal, QC, Canada, November 23, 2010.

McGill Society Public Lecture Series, Robert Vogel lecture. *The Mesmerizing Science of Hypnosis*. Montréal, QC, Canada, November 2, 2010.

McGill University roundtable discussion (Mini-Science). *Confronting Pseudoscience: A Call to Action*. Montréal, QC, Canada, October 17, 2010.

McGill Campus Community, Faculty of Science – Scientists Talk About Research for Staff (STARS) presentation (Invited by Dean Martin Grant). *The Brain Under Hypnosis*. Montréal, QC, Canada, April 30, 2010.

McGill Mini-Science 2010 series: Pseudoscience: From Quirks to Quacks, Faculty of Science (Invited by Dr. Lorne Trottier). *The science and fad of hypnosis and other psychological phenomena*. Montréal, QC, Canada, April 21, 2010.

McGill University, Faculty of Science - Freaky Fridays (Invited by Dean Martin Grant). *Magic, hypnosis and the brain*. Montréal, QC, Canada, March 5, 2010.

3.3. Within the Department

International Conference

July 5–7, 2010

Proposed, obtained SSHRC funding for, organized and hosted an international conference on the Science of Placebos at the JGH Department of Psychiatry – *Using Social Science to Elucidate Placebos: Examining a Powerful Effect through a Non-Medical Lens*. Fifty participants, including international transdisciplinary luminaries attended this three-day conference.

Grand Rounds in Psychiatry & Neurology

2007–present

Over the past four years I presented four Grand Rounds lectures in Child Psychiatry at the JGH, six Grand Rounds in Psychiatry at the JGH, two Grand Rounds in JGH Neurology and a seminar for faculty members of the Psychology Department. In addition, I provided multiple informal case studies, patient consults, research presentations for residents, updates on relevant research to staff, and professional forums for psychiatrists, social workers, occupational therapists, and nurses in both JGH Psychiatry and Child Psychiatry.

McGill University Health Center (MUHC) Psychiatry Grand Rounds lecture. *The Science of Placebos and its Relevance to Modern Psychiatry*. Montréal, December 3, 2010.

Montréal General Hospital Pain Centre, Grand Rounds (Invited by Dr. Yoram Shir). *Paying Attention to Placebos in Clinical Practice*. Montréal, January 14, 2009.

St. Mary's Hospital, McGill University Faculty of Medicine, Department of Psychiatry Grand Rounds (Invited by Dr. John A. O'Neil). *Automatization and Deautomatization*. Montréal, May 22, 2008.

Institute for Community and Family Psychiatry, Jewish General Hospital, McGill University Faculty of Medicine, Department of Psychiatry Grand Rounds (Invited by Dr. Daniel Frank). *A cognitive neuroscience of suggestion: Converging neuroimaging accounts*. Montréal, October 10, 2007.

Contribution to Psychiatry Residents and Postdoctoral Fellows

2007–present

Worked closely with five residents on their Grand Round presentations (referred by Dr. Daniel Frank, coordinator); mentored residents who expressed serious interest in a research project (e.g., Drs. HoomanGanjavi, Robert Biskin, and Daniel Zigman); Worked closely and helped with the placement of psychiatry postdoctoral fellows into academic positions (e.g., Drs. StephaneDandeneau, SuparnaChoudhury, and Eugene Raikhel).

Placing McGill Psychiatry into the Tourette's Syndrome (TS) Network

2007–present

I have connected our department with the motor disorders clinics at the Montreal Children's Hospital (MCH), Sainte-Justine Children's Hospital (SJCH), and Centre Hospitalier de l'Universitaire de Montréal HôtelDieu (CHUM-HD). These clinics draw TS patients from Montréal, as well as from surrounding regions in Québec. Dr. Bernard Rosenblatt, a pediatric neurologist and Director of the Neurophysiology Department at the MCH, and Dr. Sylvain Chouinard, a pediatric neurologist at SJCH and Director of the Movement Disorders Clinic at CHUM-HD, have become research collaborators adding the department of psychiatry at McGill to the Montreal TS Group network tapping more than 500 individuals with TS. Being a part of and having access to this rare resource facilitates funding and clinical research opportunities heretofore unrealized.

JGH Psychiatry Library Committee

(2007–2010)

Worked with librarian Jocelyne Andrews until she transitioned with librarian Teodora Constantinescu. Responsibilities included developing guidelines and making decisions on purchases of hardcover and electronic materials, use of library space, and training of students in fundamental library skills for research through bi-weekly one-hour meetings.

Miscellaneous

Spoke at Psychiatry Research Day(s), sat on departmental committee to organize the annual Psychiatry Retreat 2010, and talked at various research forums at the Douglas Hospital. Currently mentoring seven graduate students through the Psychiatry Graduate Program (Dr. Marco Leyton); active member of Division of Transcultural Psychiatry, work closely with Dr. Laurence Kirmayer and his team on topics related to somatizations and expectations; active member of Division of Child Psychiatry, work closely with Dr. Jaswant Guzder and her team on attention training in developmental psychopathologies; helped organize the annual Lady Davis Research Day(s); contributor and co-organizer of monthly Wednesday lecture series in JGH Psychiatry.