



Date Submitted: 2017-02-28 17:25:41

Confirmation Number: 659790

Template: NSHRF CV

Dr. Javeria Ali Hashmi

Correspondence language: English

Date of Birth: 3/10

Contact Information

The primary information is denoted by (*)

Address

Primary Affiliation (*)

Nova Scotia Health Authority
Pain Management Unit
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Protected when completed

Dr. Javeria Hashmi

Degrees

- | | |
|-----------------|--|
| 2006/1 - 2010/6 | Doctorate, PhD, Neuroscience, University of Toronto
Degree Status: Completed
Supervisors: Dr. Karen Davis |
| 2001/9 - 2004/2 | Master's Thesis, MSc, Pharmacology and Toxicology, University of Western Ontario
Degree Status: Completed
Supervisors: Dr. James L Henry |

Recognitions

- | | |
|--------|--|
| 2014/6 | Research award
Organization of Human Brain Mapping
Prize / Award |
| 2014/5 | Neal Alan Mysell Research Award in Psychiatry, Harvard Medical School
Harvard Medical School
Prize / Award |
| 2012/6 | Research Award
Organization of Human Brain Mapping
Prize / Award |

Employment

- | | |
|------------------|---|
| 2015/8 | Canada Research Chair Tier II (Pain), Assistant Professor
Anesthesia, Pain Management and Perioperative Medicine, Medical School, Dalhousie University |
| 2012/9 - 2015/7 | Harvard Research Fellow
Psychiatry and Neurology, Harvard Medical School |
| 2010/2 - 2012/8 | Postdoctoral Research Fellow
Physiology, Northwestern University Medical School |
| 2004/3 - 2004/12 | Research Assistant
Physiology and Pharmacology, University of Western Ontario |

Affiliations

The primary affiliation is denoted by (*)

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| (*) 2015/8 | Assistant Professor, Anesthesia, pain management and perioperative medicine, Dalhousie University |
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Research Funding History

Awarded [n=5]

Co-applicant	Radiology Research Foundation Principal Applicant : Steven Beyea Funding Sources: 2016/5 - 2017/5 Dalhousie University Total Funding - 5,000 (Canadian dollar) Funding Competitive?: Yes
Principal Applicant	Canada Research Chair Tier II in Pain Funding Sources: 2016/10 - 2021/10 Canadian Institutes of Health Research (CIHR) Total Funding - 500,000 (Canadian dollar) Funding Competitive?: Yes
Principal Applicant	Canada Foundation for Innovation (CFI) & John R. Evans Leaders Fund (now in process for matching funds from NSRIT) Funding Sources: 2017/5 - 2018/5 Canada Foundation for Innovation (CFI) John R. Evans Leaders Fund Total Funding - 312,000 (Canadian dollar) Funding Competitive?: Yes
Principal Applicant	NSERC Discovery Grant Funding Sources: 2016/5 - 2020/5 Natural Sciences and Engineering Research Council of Canada (NSERC) Total Funding - 159,000 (Canadian dollar) Funding Competitive?: Yes
Co-applicant	Nova Scotia Health Research Foundation (NSHARF) Principal Applicant : John Hanly Funding Sources: 2016/5 - 2018/5 Capital District Health Authority (The) (CDHA) (Nova Scotia) Total Funding - 15,000 (Canadian dollar) Funding Competitive?: Yes

Student/Postdoctoral Supervision

Master's Thesis [n=1]

Co-Supervisor	Christopher O'Grady (In Progress) , Dalhousie University Student Degree Start Date: 2015/9
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Post-doctorate [n=1]

Principal Supervisor Manyoel Lim (Completed) , Dalhousie University
 Student Degree Start Date: 2010/3
 Project Description: Neuromagnetic studies on cortical somatosensory and auditory functions in healthy subjects and patients with fibromyalgia
 Present Position: Postdoctoral Fellow

Research Associate [n=1]

Principal Supervisor Andrew McIntyre (Completed) , Dalhousie University
 Student Degree Start Date: 2004/9
 Present Position: Research Associate

Community and Volunteer Activities

2017/5 Panelist, Pain Research Forum
 Invited panelist for online webinar on www.painresearchforum.org. Speaker: Dr. Luana Colloca

2015/12 Scientific Consultation, BBC One
 Scientific consultation for documentary on the topic of the brain's role in chronic back pain, Program title: 'Doctor in the House' by Jack Rampling

2010/1 Peer reviewer, Scientific Journals
 PAIN, Journal of Pain, Scientific Reports, Journal of Neuroscience Methods, Plos One, Cerebral Cortex, Frontiers in Neuroscience and more

2013/9 - 2015/4 Organizer, Host and Facilitator, MGH/HST Martinos Center for Biomedical Imaging
 Brainmap Seminar Series, Harvard–MIT Martinos Center

2013/11 - 2014/7 Organizer, Host and Facilitator, MGH/HST Martinos Center for Biomedical Imaging
 New Advances in Pain Imaging Journal Club

Knowledge and Technology Translation

2015/9	<p>Steering committee member, Research Uptake Strategies Group/Organization/Business Serviced: Dal Pain Network Target Stakeholder: Academic Personnel Outcome / Deliverable: Dal Pain Network aims to develop a platform that will allow knowledge transfer and communication between pain experts from different disciplines and sub-disciplines. We currently have three mandates: 1. Research: To provide collaborative platform to foster research on the fundamental mechanisms of chronic pain 2. Socio-Economic: To engage local pain researchers in a global movement towards developing tools, technologies, agents and new ideas that can assist with developing a robust clinical strategy and health care policy to tackle the challenge imposed by chronic pain on society 3. Funding: To create a unified identity with a focus on pain research and translation excellence, which will improve access to major research funding sources Evidence of Uptake/Impact: The Dalhousie Pain Network has demonstrated a successful track record by hosting several public and academic forums to disseminate research findings and educate Nova Scotian pain patients. For the last 4 years this group has organized and put on Dal Pain Research Day (2016) which featured an acclaimed key note speaker (Dr. Irene Tracey) along with poster sessions with awards for trainees and fostered discussions and collaborations. This group has also hosted a Pain Colloquium (February 2017) on the topic of potential benefits and limitations of using opioids highlighting chronic pain management, and participated in an information workshop with Human Resources at Dalhousie University highlighting the question of dealing with chronic pain in the workplace. References / Citations / Web Sites: https://medicine.dal.ca/research/pain-group/about/Steering%20Committee.html Activity Description: Participated in organization of events, updating of website, planning activities for upcoming events.</p>
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International Collaboration Activities

2015/7	<p>Collaborator United States Collaboration with Dr Sara Lazar at Harvard Medical School to investigate the neural mechanisms of mindfulness meditation with fMRI and magnetoencephalography</p>
2015/7	<p>Collaborator, United States Collaboration with Dr Randy Gollub and Dr Jian Kong on investigating the neural mechanisms underlying placebo analgesia. Two abstracts from this collaboration were accepted by Society for Neuroscience meeting (2015) and International Association for the Study of Pain (2017).</p>
2015/7	<p>Collaborator, United States Collaborator with Dr Tal Kenet and Dr Sheraz Khan on a project investigating the development and maturation of brain networks with resting state magnetoencephalography. One manuscript co-authored with this collaborator is in revision for re-submission.</p>
2013/11	<p>Collaborator, Canada Collaboration on a review article with Dr Karen Davis at University of Toronto</p>

Presentations

1. (2017). Is large-scale brain connectivity functionally meaningful?. Lecture at Dr. Leslie Phillmore's course in the Department of Psychology and Neuroscience, Canada
Main Audience: Researcher
2. Dr. Karen D. Davis, PhD (Speaker) Dr. Jason J. McDougall, PhD (Speaker) Dr. Javeria Ali Hashmi, PhD (Chair and Speaker). (2017). Biomarkers for chronic pain. Canadian Pain Society Annual Meeting, Halifax, 2017, Canada
Main Audience: Researcher
3. (2016). Brain Analytics for Precision Medicine. Medical Neuroscience Seminar Series, Canada
Main Audience: Researcher
4. (2016). Role of large-scale neural communication in conscious perception. Department of Psychology and Neuroscience Colloquium, Halifax, Canada
Main Audience: Researcher
5. (2016). Role of large-scale neural communication in conscious pain perception. Speaker at Grand Rounds, Dalhousie University, Department of Anesthesia, Pain Management and Perioperative Medicine, Canada
Main Audience: Knowledge User
6. (2016). Brain analytics for precision medicine. Lecture at for Stan Matwin's course "Machine Learning for Big Data", Canada
Main Audience: Knowledge User
7. (2016). Brain Analytics for Precision Medicine. Grand Rounds, Dalhousie University, Department of Anesthesia, Pain Management and Perioperative Medicine., Canada
Main Audience: Knowledge User
8. (2015). Brain network properties predict individual variability in analgesia related to psychological aspects of treatment in chronic pain patients. Fifth International Meeting of the Special Interest Group on Neuropathic Pain (NeuPSIG). Session title: Brain Imaging in Neuropathic Pain: role in assessing mechanisms and treatment effects., Nice, France
Main Audience: Knowledge User
9. (2014). Spectral signatures of network development in resting state MEG. Oral session speaker. Session title: Lifespan Development. Annual meeting of the Organization for Human Brain Mapping, Hamburg, Germany
Main Audience: Researcher
10. (2013). Predictive dynamics in brain networks of chronic pain patients. Annual Pain Therapeutics Summit, Boston, United States
Main Audience: Decision Maker
11. (2013). Predictive dynamics in brain networks of chronic pain patients. Invited plenary lecture. Queens University, Kingston, Canada
Main Audience: Researcher
12. (2013). Predictive dynamics in brain networks of chronic pain patients. Speaker at Brainmap Seminar Series, MGH/HST Martinos Center for Biomedical Imaging, Boston, United States
Main Audience: Researcher
13. (2012). Brain networks for placebo analgesia in a clinical trial for chronic back pain. Nanosymposium speaker. Session title: Pain and Imaging II. Society of Neuroscience Annual Conference, Washington DC, United States
Main Audience: Researcher

14. (2012). Functional brain networks that predict transition from sub-acute to chronic pain. Speaker and awardee at interactive poster session. Annual meeting of the Organisation for Human Brain Mapping,, Beijing, China
Main Audience: Researcher

Text Interviews

- 2013/08/08 News, Pain Research Forum. Brain Activity Shifts as Pain Becomes Chronic. Lower back pain signals move from nociceptive regions to areas involved with emotional aspects of pain by Abdul-Kareem Ahmed, Pain Research Forum
- 2013/01/08 News, Pain research Forum. Peering at the Brain for Clues to Treatment Response. Imaging studies suggest potential biomarkers for inter-individual variability in placebo response and opioid analgesia by Megan Stephan, Pain Research Forum.

Publications

Journal Articles

1. Hashmi, J.A, Loggia, M, Khan, S, Gao,L.,Kim J, Napadow, V, Brown E.N, Akeju OJ.(2017). Dexmedetomidine Disrupts the Local and Global Efficiencies of Large-scale Brain Networks. Commentary by George Mashour. Title: Network Inefficiency: A Rosetta Stone for the Mechanism of Anesthetic-induced Unconsciousness. Anesthesiology -The Journal of the American Society of Anesthesiologists.126(3): 419-430.
First Listed Author
Accepted
Refereed?: Yes
2. Khan S*, Hashmi, J.A*. Gollub, R.L, Kong, J, Hamalainen, M.S, Stufflebeam S, Kenet T *equal contribution. (2017). Spectral signatures of network development in resting state MEG. Nature Communications.
First Listed Author
Revision Requested
Refereed?: Yes
3. Khan, S, Hashmi, J.A, Mamashli, F, Bharadwaj H.M, Ganesan, S, Michmizos,K.P, Kitzbichler, M.G, Zetino, M, Garell K.A, Hamalainen, M.S, Kenet T.(2016). Altered onset response dynamics in somatosensory processing in autism spectrum disorder. Frontiers in Neuroscience. 10
Co-Author
Published
Refereed?: Yes
4. Mamashli, F., Khan, S., Bharadwaj, H., Michmizos, K., Ganesan, S., Garell, K.-L. A., Ali Hashmi, J., Herbert, M. R., Hämäläinen, M. and Kenet, T.(2016). Auditory processing in noise is associated with complex patterns of disrupted functional connectivity in autism spectrum disorder.Autism Research.
Co-Author
Published
Refereed?: Yes
5. Vachon-Preseu, E, Tétreault, P, Petre, B, Huang, L, Berger, S, Torbey, S, Baria, A.T, Mansour,A.R, Hashmi, J.A, Griffith, J.W, Comasco, E, Schnitzer, T, Baliki, M.N, and Apkarian A.V.(2016). Corticolimbic anatomical characteristics predetermine risk for chronic pain. Brain.
Co-Author
Accepted
Refereed?: Yes

6. Chen, X, Spaeth, RB, Freeman, SG, Scarborough, DM, Hashmi, J.A, Wey, H–Y, Egorova, N, Vangel, M, Mao, J, Wasan, AD. Edwards, RR, Gollub,RL, Kong,J.(2015). The modulation effect of longitudinal acupuncture on resting state functional connectivity in knee osteoarthritis patients.Molecular Pain. Co-Author
Accepted
Refereed?: Yes
- [7.](#) Hashmi, J.A, Kong J, Spaeth R, Khan S, Kaptchuk T, Gollub R.L.(2014). Functional Network Architecture Predicts Psychologically Mediated Analgesia Related to Treatment in Chronic Knee Pain Patients. Journal of Neuroscience. 34: 3924–3936. First Listed Author
Published
Refereed?: Yes
8. Spaeth R, Camhi S, Hashmi J.A, Vangel M, Wasan A.D, Edwards R.E, Gollub R.L, Kong, J.(2013). A Longitudinal Study of the Reliability of Acupuncture Deqi Sensations in Knee Osteoarthritis. Evidence-based Complementary and Alternative Medicine. Co-Author
Published
Refereed?: Yes
9. Hashmi J.A, Davis K.D.(2013). Deconstructing Sex Differences in Pain Sensitivity.PAIN. 155: 10-13. First Listed Author
Published
Refereed?: Yes
10. Hashmi J.A, Baliki M.N, Huang L, Torbey S, Herman K, Schnitzer T.J, Apkarian A.V.(2013). Shape shifting pain: Chronification of back pain shifts brain representation from nociceptive to emotional circuits. Brain. 136: 2751–2768. First Listed Author
Published
Refereed?: Yes
11. Hashmi J.A, Baria A, Baliki M.N, Huang L, Schnitzer TJ, Apkarian A.V.(2012). Brain networks predicting placebo analgesia in a clinical trial for chronic back pain. PAIN. 153: 2393–2402. First Listed Author
Published
Refereed?: Yes
12. Hashmi J.A, Baliki M.N, Huang L, Parks E.L, Chanda M.L, Schnitzer T.J, Apkarian A.V.(2012). Lidocaine patch (5%) is no more potent than placebo in treating chronic back pain when tested in a randomised double blind placebo controlled brain imaging study. Molecular Pain. 24: 8:29. First Listed Author
Published
Refereed?: Yes
13. Cecchi, G.A., Huang, Hashmi J.A, Centeno M, Rish, I Apkarian, A.V. (2012). Predictive Dynamics of Human Pain Perception. PLoS Computational Biology. 10: 1371. Co-Author
Published
Refereed?: Yes

Conference Publications

1. Anesthesia disrupts local and global communication in large-scale brain networks. Organization of Human Brain Mapping
Abstract
First Listed Author
Accepted
2. Hashmi, J.A, Khan, S, Lieser, J., Mincucci,D, Gollub R.L, Kong J.(2016). Local efficiency in resting state brain networks predicts experimental and clinical placebo analgesia in five separate studies. International Association for the Study of Pain
Abstract
First Listed Author
Submitted
3. Hashmi, J.A, Khan, S, Gollub, R.L, Kong, J.(2015). Intrinsic functional connectivity predicts task evoked responses and pain modulation in an experimental model of placebo analgesia. Society for Neuroscience
Abstract
First Listed Author
Published
4. Hashmi, J.A*, Khan S*, Gollub, R.L, Kong, J, Hamalainen, M.S, Stufflebeam S, Kenet T.(2014). Spectral signatures of network development in resting state MEG. Annual Meeting for the Organization of Human Brain Mapping
Abstract
First Listed Author
Published
5. Hashmi, J.A, Kong J, Spaeth R, Kaptchuk T, Gollub RL.(2013). Small World Brain Metrics Predict Placebo Analgesia in Osteoarthritis Patients. Organization for Human Brain Mapping,
Abstract
First Listed Author
Published
6. Hashmi, J.A , Baliki MN , Huang L , Torbey S, Herman K, Schnitzer TJ, Apkarian AV.(2012). Functional brain networks that predict transition from sub acute to chronic pain. Organization for Human Brain Mapping meeting
Abstract
First Listed Author
Published