## **Curriculum Vitae, Harvard Medical School Format**

Date Prepared: July, 2019

Name: Amar Dhand

Office Address: Brigham and Women's Hospital

Department of Neurology

75 Francis Street Boston, MA 02115

#### **Education:**

Year	Degrees (Honors)	Fields of Study (Thesis advisor for doctoral research degrees)	Institution
2001	A.B. Magna cum Laude	Biology modified with Psychological and Brain Sciences (major); English (minor)	Dartmouth College
2006	D.Phil. Rhodes scholar	Educational Studies (Supervisor: Geoffrey Walford)	Oxford University
2008	M.D.	Medicine	Harvard Medical School

## **Postdoctoral Training:**

Month/Year(s)	Title	Specialty/Discipline (Lab PI for postdoctoral research)	Institution
07/08-07/09	Intern	Internal Medicine	University of California, San Francisco
07/09-07/12	Resident	Neurology	University of California, San Francisco
07/12-07/13	Fellow	Neurohospitalist Medicine	University of California, San Francisco

## **Faculty Academic Appointments:**

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Month/Year(s)	Academic Title	Department	Academic Institution
07/13-07/16	Assistant Professor	Neurology	Washington University School of Medicine
07/13-07/16	Assistant Professor	George Warren Brown School of Social Work	Washington University in St. Louis
07/16-present	Assistant Professor	Neurology	Harvard Medical School
07/16-present	Visiting Assistant Professor	Computer and Information Science	Northeastern University

## Appointments at Hospitals/Affiliated Institutions:

Month/Year(s)	Position Title	Department (Division, if applicable)	Institution
07/13-07/16	Attending Neurologist	Neurology General and Stroke	Barnes-Jewish Hospital
07/16-present	Associate Neurologist	Hospital Neurology, Stroke and Cerebrovascular Diseases	Brigham and Women's Hospital

## **Major Administrative Leadership Positions:**

#### Local

Year(s)	Position Title	Institution (note if specific department)
2014	Chair and Conference Organizer, Washington	Washington University School of
	University Landau Speaker Committee	Medicine
2016-	Secretary of Division Meetings, Division of	Brigham and Women's Hospital
present	Neurohospitalist Medicine	
2017-	Co-founder, Neuroscience Internal Brigham	Brigham and Women's Hospital
present	Study Section (NIBSS)	
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## **National**

Year(s)	Position Title	Institution (note if specific department)
2011-2013	Representative, Neurology Residency	American Council of Graduate Medical
	Review Committee	Education (ACGME)
2012	Representative, Neurology Milestones	American Council of Graduate Medical
	Committee	Education (ACGME)
2019-	Delegate, National Diversity Leadership	American Heart Association
present		

## International

Year(s)	Position Title	Institution (note if specific department)
2012-2017,	Member, Canadian Western Region Rhodes	Rhodes Scholarship Trust
2019-	Selection Committee	
present		

## **Committee Service:**

#### Local

Local		
Year(s) of Membership	Name of Committee	Institution/Organization
	Dates of Role(s)	Title of Role(s)
2002-2003	Harvard Search Committee for Dean of Medical Education	Harvard Medical School
	2002-2003	Student Representative
2011-2012	Neurology Education Committee	University of California, San Francisco
	2011-2012	Resident Representative
2013-2014	Neurology Medical Students Committee 2013-2014	Washington University School of Medicine Faculty Representative
2014-2016	Neurology Residents as Teachers Committee 2014-2016	Washington University School of Medicine

Faculty Representative

Hospital Neurology Division	Brigham and Women's Hospital
2016-present	Secretary
Partners Human Research Committees	Brigham and Women's Hospital
(IRBs)	
2018-present	Faculty Member
	2016-present Partners Human Research Committees (IRBs)

# Regional

Year(s) of Membership	Name of Committee	Institution/Organization
	Dates of Role(s)	Title of Role(s)
2014	St. Louis Harvard College Interview Committee	Harvard College
	2014	Regional Interviewer
2017- present	Partners Stroke Quality Leaders Committee 2017-present	Partners Healthcare BWH Faculty Representative

## **National and International**

Year(s) of Membership	Name of Committee	Institution/Organization
	Dates of Role(s)	Title of Role(s)
2011-2013	Residency Review Committee	American Council of Graduate Medical Education (ACGME)
	2011-2013	Committee Member
2012	Neurology Milestones Committee	American Council of Graduate Medical
	2012	Education (ACGME) Committee Member
	20.2	
2012-2017	Canadian Western Region Rhodes Selection	Rhodes Scholarship Trust
	Committee	·
	2012-2019	Committee Member
2019-present	National Diversity Leadership	American Heart Association
•	2019	Committee Member

## **Professional Societies:**

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Year(s) of Membership	Society Name	
	Dates of Role(s)	Title of Role(s)
2009-present	American Academy of Neurology 2009-present 2014-2018	Member, Neurohospitalist section Medical Education Research Committee
2011-2013	California Neurology Society 2011-2013	State Resident Representative
2013-present	American Heart Association 2013-present 2019-present	Member, Stroke Association Delegate, National Diversity Leadership
2013-present 2013-present 2016-present	Neurohospitalist Society American Neurological Association International Network for Social Network Analysis	Member Member Member

#### **Grant Review Activities:**

Year(s) of Membership	Name of Committee	Institution/Organization
	Dates of Role(s)	Title of Role(s)
2014-2018	Medical Education Research Grants Review Committee	American Academy of Neurology
	2014-2018	Member

#### **Editorial Activities:**

#### Ad hoc Reviewer:

Journals for which you serve as a reviewer

New England Journal of Medicine

Circulation

Neurology

JAMA Neurology

**Neurocritical Care** 

Neurohospitalist

Journal of Stroke and Cerebrovascular Disease

Archives of Physical Medicine and Rehabilitation

Journal of Medical Case Reports

Oxford University Press

Ethnography and Education

## Other Editorial Roles:

Year(s)	Role	Journal Name
1999-2001	Co-Founder and Editor-in-chief	Dartmouth Undergraduate Journal of
		Science
2014- present	Editorial board member	The Neurohospitalist

#### **Honors and Prizes:**

Year	Name of Honor/Prize	Awarding Organization	Achievement for which awarded (if unclear from award title)
1999	Ernest T. Saeger 1914 Scholarship	Dartmouth College	Academic scholarship
2000	Barry Goldwater National	Barry Goldwater	Academic scholarship
	Scholarship	Foundation	
2001	Presidential Scholar	Dartmouth College	Academic scholarship
			for research
2001	Christopher G. Reed Biologist	Dartmouth College	Academic scholarship
	Award		for outstanding
			biology research
2001	Raw W. Smith Award for	Dartmouth College	Outstanding
	Community Service		community service
2001	Alfred K. Priest Fellowship for study at Harvard University	Dartmouth College	Academic scholarship
2003	Rhodes Scholarship, Canada	Rhodes Scholarship Trust	Academic scholarship

2008	Rose Seegal Prize for best paper on community and medicine	Harvard Medical School	
2011	Annual Meeting Resident	American Academy of	
	Scholarship	Neurology	
2011	Clinical Teaching Excellence	University of California,	
	Award for Cherished Housestaff	San Francisco	
2012	Alpha Omega Alpha	AΩA, University of	Honor society in
		California, San Francisco	medicine
2014,	Neurology Clerkship Student	Washington University	
2015	Teaching Award Honor Roll	School of Medicine	
2015	Excellence in Skills Lab Teaching	Washington University in	
	Award	St. Louis	
2015	Best Doctors in America	Best Doctors, Inc.	Excellence in patient
			care
2016	Best Doctors in America	Best Doctors, Inc.	Excellence in patient
		·	care .

# **Report of Funded and Unfunded Projects**

# **Funding Information:**

## Past

Year(s)	Grant title Grant type and number Role of Project Description of the major goals
1998	Visuospatial processing in Parkinson's Disease First Year Summer Research Grant, Dartmouth College PI (\$5000) The goal was to use cognitive neuroscience methods to show the impact of Parkinson's
	disease on higher visual processing pathways compared to normal controls.
2002	A culturally appropriate peer education model for Vietnam Paul Dudley White/Andrew Sellard Travelling Fellowship, Harvard Medical School PI (\$5000 and travel costs)
	I worked with the Center for Disease Control Field Station in Hanoi to research and develop a Vietnamese model of peer education.
2003- 2006	Peer learning among a group of heroin addicts in India The Rhodes Trust, Oxford University PI (\$150,000)
	This was an ethnographic study to examine the range of peer learning practices such as poetry and street medicine engaged by heroin addicts in New Delhi.
2008	The culture of neurology in a hospital in Beijing: An ethnographic study Paul Dudley White/Andrew Sellard Travelling Fellowship, Harvard Medical School PI (\$5000 and travel costs)
	I studied the diagnostic and management methods of neurologists at Capital Medical University in Beijing.
2010- 2011	Ethnography of the clinical practice of neurology Flexible Residency in Neurology, University of California, San Francisco PI (\$35,000 salary support)

I studied the diagnostic process of experienced neurologists in Northern California.

2014- Social networks and stroke recovery

2016 AHA Mentored Clinical & Population Research Award 14CRP20080001

PI (\$154,000)

The aims are to evaluate the change of social networks after ischemic stroke and assess whether initial network characteristics influence recovery outcomes.

2015- Improving stroke recovery using body worn cameras

2016 Clinical and Translational Research Funding Program, Barnes-Jewish Hospital

PI (\$50.000)

This grant aims to determine the accuracy of body worn camera images to capture social interactions when used by stroke survivors.

#### Current

Year(s)	Grant title
	Grant type and number
	Role of Project (if PI or site PI, total direct costs)
0045	Description of the major goals
2015-	Impact of Social Network Structure on Stroke Recovery
2020	NIH/K23 K23HD083489
	Principal Investigator (\$619,645)
	The major goals are to train in clinical research, determine the evolution of social
	networks after stroke, and assess the impact of networks on patient reported recovery
	outcomes.
2018-	Study of social networks and their inter-relations with diet, physical activity, and obesity.
2020	Pilot and Feasibility Award, Boston Nutrition Obesity Research Center
	Principal Investigator (\$50,000)
	The goal of this research study is to examine the interplay of social networks, physical
	activity, and diet in relation to obesity.
2018-	Social networks of football players: Association with functional, cardiac, and cognitive
2019	outcomes.
	Football Players Health Study, Harvard University
	Principal Investigator (\$150,000)
	The goal of this research study is to assess the social network characteristics of retired
	professional football players, and the relationship to functional, cardiac, and cognitive
	outcomes.

## **Pending**

Year(s)	Grant title
	Grant type and number
	Role of Project (if PI or site PI, total direct costs)
	Description of the major goals
2019-	SocialBit: Establishing the accuracy of a wearable sensor to detect social interactions
2024	after stroke
	NIH/R01 R01 HD099176-01 – scored at last review, pending council decision.
	Principal Investigator (\$2,388,765)
	The major goal is to determine the accuracy of a wearable sensor to detect social
	interactions after stroke and the relationship with measures of social isolation.

## Report of Local Teaching and Training

## **Teaching of Students in Courses:**

Year(s)	Course Title	Location
	Type of student/audience	Level of Effort
2002-2003	Student teacher training elective	Harvard Medical School
	1 <sup>st</sup> and 2 <sup>nd</sup> year medical students	3 hours per week for 8 weeks
2003-2006	Neuroscience tutorial	Oxford University
	1 <sup>st</sup> -3 <sup>rd</sup> year medical students	15 hours per week for 16 weeks
2015, 2016	Skills lab: Qualitative data analysis	Washington University in St. Louis
	Students in Masters of Public Health	15 hours over 3 days
2015	Social Network Analysis	Washington University in St. Louis
	Graduate students in Public Health	3 hours per week for 8 weeks
2017-2019	Management S-4150: Leadership	Harvard Summer School
	Students at Harvard Summer School	3 hours guest lecturer
2019	Neurology Clerkship, Stroke	Harvard Medical School
	2 <sup>nd</sup> and 3 <sup>rd</sup> year medical students	1 hour guest lecturer

## Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):

fornia, San Francisco
4 weeks
niversity School of Medicine
week
Vomen's Hospital
k plus 1:1 time
Vomen's Hospital, Medicine
General Hospital,
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## **Clinical Supervisory and Training Responsibilities:**

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Year(s)	Type of responsibility	Level of Effort
2013-2016	Neurology Inpatient Attending	10-12 weeks per year
	Washington University School of Medicine	
2016-	Neurology Inpatient Attending	10 weeks per year
present	Brigham and Women's Hospital	
2017-	Preceptor, HMS MS3 students in Stroke	One half session per every other week
present	Clinic	•
•	Brigham and Women's Hospital	

## Laboratory and Other Research Supervisory and Training Responsibilities:

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Year(s)	Type of responsibility	Level of Effort
2014-	Principal Investigator, Dhand Lab.	10 hours per week.
	Mentoring trainees in research thinking,	
	data science techniques, and presentation	
	skills.	

#### **Formally Supervised Trainees:**

\/\/-\	Name and degree of Comment and ities
Year(s)	Names and degrees/ Current position

Documed as a direct result of your supervision (maximum one sentence)		Describe the type of supervision and the specific accomplishments of your trainee that
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## **Local Invited Presentations:**

Year(s)	Title of presentation/ Type of presentation
	Department and Institution where presented (Sponsor, if any)
2006	Using learning theory to understand access in ethnographic research

		Education, Oxford
20	09	Emergency Medical Services-Bases Community Stroke Education: Study Review
		Neurology, UCSF
20	09	Carotid and vertebral artery transluminal angioplasty study: Study Review
		Neurology, UCSF
20	09	Maintaining ethnographic practices during medical residency
		Medical Anthropology, UCSF
20	10	History of the neurological examination
		Internal Medicine, UCSF
20	10	Case presentation for Dr. Martin Samuels
		Neurology, UCSF
20	10	Localization theory
		Neurology, UCSF
20	11	39 year old man with right facial droop
		Neurology, UCSF
20	11	Status epilepticus
		Neurology, UCSF
20	11	Stroke: A Clinical Approach
		Neurology, UCSF
20	11	The pathophysiology of spasticity
		Neurology, UCSF
20	11	Neurology of the tongue
		Neurology, UCSF
20	12	Observations on the practice of diagnosis in neurology
		Neurology, UCSF
20	12	Inherited Muscle Diseases of Childhood
		Neurology, UCSF
20	12	NMDA Receptor Limbic Encephalitis
		Neurology, UCSF
20	12	Functional disorders in Neurology
		Neurology, UCSF
20	13	Diagnostic practice of community neurologists
		Neurology, UCSF
20	13	The Neurology of Itch
		Neurology, UCSF
20	13	Grand rounds case discussant
		Neurology, WUSM
20	14	International Stroke Conference 2014: Thrombosis after pregnancy
		Neurology, WUSM
20	14-	Evidence-based approach to risk factor management in stroke
		Neurology, WUSM
20	15	What did I learn at ISC? Disability trajectories
		Neurology, WUSM
20	15	Evidence-based practice in Inpatient Neurology
		Neurology, WUSM
20	15	Neurological emergencies for Internists
		Internal Medicine, WUSM
20	15	Social networks and hospital arrival after ischemic stroke
		Neurology, WUSM
20	15	Neurology Grand Rounds: Social networks and stroke outcomes
		Neurology, WUSM
20	16	International Stroke Conference 2016 Review

	Neurology, WUSM
2016	Neurological Emergencies for Rehabilitation Physicians
	Rehabilitation Medicine, WUSM
2016	Hospital Networks
	Center for Complex Network Research, Northeastern
2016	Social Networks and Health Outcomes
	Channing Center of Network Medicine, BWH
2017	Social Networks and Neurological Outcomes
	Neurology, BWH
2017	Social Networks and Stroke Outcomes
	Stroke Conference, MGH
2017	Social Networks and Stroke Outcomes
	Stroke Quality Leaders Conference, Partners
2017	Stroke for Internists
	Medical Residents Conference, BWH
2017	Social Networks and Stroke Outcomes
	Neurology for the Non-Neurologist, Kennebunkport, Maine
2017	Social Networks and Stroke Recovery
	Harvard 25 <sup>th</sup> Annual Update in Neurology, BWH
2017	Social Networks and Stroke Recovery
	Stroke Camp, BWH
2018	Social Networks and Stroke Recovery
	Neurorecovery Group, MGH
2018	Social Networks and Stroke Recovery
	Stroke Camp, BWH
2018	Networks Science and Stroke Outcomes
00.10	Stroke Conference, MGH
2018	Hospital networks and the foodome
0040	Network Science Institute, Northeastern
2018	Personal Network Study
	Football Players Health Study, HMS

# Report of Regional, National and International Invited Teaching and Presentations No presentations below were sponsored by outside entities.

## Regional

9	
Year(s)	Title of presentation or name of course/ Type of presentation/role(s) (note if presentation the result of a selected abstract)
	Location (Sponsor, if any)
2012	Recent Advances in Neurology: Clinicopathological Case Conference
	San Francisco, CA
2017	Social Networks, Course Lecture at Harvard Summer School
2018	Natural Intelligence: Social Networks
	Boston Society of Neurology and Neurosurgery
2018	Social Networks, Course Lecture at Harvard Summer School
2018	A Networked Life, Course Lecture at Harvard Summer School

#### National

Year(s)	Title of presentation or name of course/ Type of presentation/role(s) (note if
	presentation the result of a selected abstract)
	Location (Sponsor, if any)
2014	Falls and their prevention

	Neurohospitalist Meeting, Denver, CO
2014	ICU/Stroke Research Seminar: Examining patients' social networks to improve stroke
	recovery
	Columbia University, New York, NY
2015	Patients' social networks influence timing of hospital arrival after stroke
	Center for Complex Network Research, Northeastern University
2015	Neurology Grand Rounds: Social networks and stroke outcomes
	Washington University School of Medicine, St. Louis, MO
2016	Understanding hospital networks to improve patient outcomes and reduce healthcare
	costs
	Effective Use of the R Language (EARL) Conference, Boston, MA.
2017	Webinar: Diagnostic Process in Neurology
	Society to Improve Diagnosis in Medicine
2017	Neurology Grand Rounds: Social Networks and Neurological Outcomes
	George Washington University, Washington, DC.
2017	Neurology Grand Rounds: Social Networks and Stroke Outcomes
	University of Pittsburgh Medical Center, Pittsburgh, PA
2019	ICU/Stroke Research Seminar: Social Networks and Stroke Outcomes
	Yale University, New Haven, CT
2019	Neurology Grand Rounds: Social Networks and Stroke: Impact of Interpersonal
	Connections on Hospital Arrival Time and Recovery
	Henry Ford Health System, Detroit, MI
2019	Neurology Grand Rounds: Social Networks and Stroke: Impact of Interpersonal
	Connections on Stroke Outcomes
	University of Massachusetts Medical School, Worcester, MA

#### International

IIIternational	
Year(s)	Title of presentation or name of course/ Type of presentation/role(s) (note if presentation the result of a selected abstract) Location (Sponsor, if any)
2008	<b>Neurology Grand Rounds</b> : Deep learning in medicine: Ideas for teachers and students Capital Medical University, Beijing, China
2014	<b>Neurology Grand Rounds</b> : Examining patients' social networks to improve stroke recovery University of Saskatchewan, Saskatoon, Canada
2015	Patients' social networks influence timing of hospital arrival after stroke Effective Use of the R Language (EARL) Conference, London, England.
2018	Social networks and stroke rehabilitation, Rehabilitation Medicine, VU University Medical Center, Amsterdam, Netherlands
2019	Social networks and global health, NIH Fogarty International Center, Global Environmental and Occupational Health Workshop, Udaipur, India

# **Report of Clinical Activities and Innovations**

## **Current Licensure and Certification:**

Year	Type of License or Certification
2010-2014	Licensed Physician, California Medical License (A111868)
2012	Diplomate, American Board of Neurology and Psychiatry
2013-2016	Licensed Physician, Missouri Medical License (2013015294)
2016-	Licensed Physician, Massachusetts Medical License (266766)
present	

#### **Practice Activities:**

Year(s)	Type of activity	Name and location of practice	Level of activity
2013-2016	Inpatient Neurology Service Attending	Barnes-Jewish Hospital	4-6 weeks per year
2013-2016	Inpatient Neurology Consult Service Attending	Barnes-Jewish Hospital	4-6 weeks per year
2013-2016	Inpatient Neurology Stroke Service Attending	Barnes-Jewish Hospital	4-6 weeks per year
2013-2016	Outpatient Neurology Clinics, General and Stroke	Barnes-Jewish Hospital	½ per week
2016- present	Inpatient Neurology Service Attending	Brigham and Women's Hospital	10 weeks per year
2016- present	Outpatient Neurology Clinics, Stroke	Brigham and Women's Hospital	½ day per week

#### **Clinical Innovations:**

Name of clinical innovation	Describe the influence or potential influence of the innovation on clinical care or practice management, including how the innovation is used or has been implemented locally (at HMS), regionally, nationally or internationally; if developed as a member of a committee, describe your contribution.
Neurology Milestones	We created the Neurology Milestones in 2013-2014 to aid in evaluating neurology residents and residency programs by the Accreditation Council for the Graduate Medical Education (ACGME). The Neurology Milestones detail neurology-specific clinical domains that are relevant to neurological training and progression toward competence in independent practice. I was a neurology representative on the committee. Description published in the Journal of Graduate Medical Education 2014; 6(1 Suppl 1): 102-104.
Diagnosis monitoring tool for inpatient neurology	Diagnostic errors account for 40,000 to 80,000 deaths every year. The Institute of Medicine called for tools to monitor physicians' diagnostic process. We developed the first secure web application for clinicians to record and analyze their diagnostic process. This was implemented by the full neurohospitalist division at Washington University in St. Louis from 2014-2016. Results were published in The Neurohospitalist 2017; 7(3): 132-136.

## Report of Technological and Other Scientific Innovations

Year(s)	Innovation
2010-2014	NeuroBoard: A clinical teaching tool that is a dry erase map of the brain. It is copyrighted
	by the Regents of the University of California and it was sold internationally by the
	American Academy of Neurology.
2014	CardioBoard: A clinical teaching tool that is a dry erase map of the heart.
2018	Personal network instrument created by our lab was posted on REDCap Shared Library
	for international use. The codebase to analyze results is available on GitHub
	<a href="https://github.com/AmarDhand/PersonalNetworks">https://github.com/AmarDhand/PersonalNetworks</a> .

## Report of Education of Patients and Service to the Community

#### Activities

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Year(s)	Organization or institution/ Role (Sponsor, if any)
i car(3)	Organization of institution/ Note (Opensor, if any)

	One sentence description (optional)
2017	Social Networks and Stroke Recovery
	Stroke Camp, a 2-day camp for stroke survivors.
2017	Social Networks and Stroke Recovery
	Stroke Survivors Evening Meeting
2018	Rehabbing Together: A Social Network Intervention After Stroke
	Stroke Camp, a 2-day camp for stroke survivors.

#### **Educational Material for Patients and the Lay Community:**

#### Patient educational material

Year	Title	Type of contribution (Sponsor, if any)	Citation, if any	
2014	Hemicraniectomy Decision Aid	Booklet		

#### Report of Scholarship

Peer reviewed publications in print or other media (underline indicates a mentee):

#### Research investigations

- 1. **Dhand A**, Birdi S, Rajput AH. (1998). Frequency of respiratory disorders and bradycardia in essential tremor—consideration of treatment. *Parkinsonism and Related Disorders*, 4(1), 7-10.
- 2. **Dhand A** (2006). The practice of poetry among a group of heroin addicts in India: Naturalistic peer learning. *Ethnography and Education*, 1(1), 125-141.
- 3. **Dhand A** (2006). The roles performed by peer educators during outreach among heroin addicts in India: Ethnographic insights. *Social Science and Medicine*, 63(10), 2674-2685.
- 4. **Dhand A** (2007). Using learning theory to understand access in ethnographic research. In G. Walford (Ed.), *Developments in Ethnographic Methodology* (Vol. 12), pp.1-25. Oxford, UK: Elsevier.
- 5. **Dhand A** (2009). Street 'doctory' among a group of heroin addicts in India: Naturalistic peer learning. *Ethnography and Education*, 4(1), 101-116.
- Kamel H, Dhaliwal G, Navi BB, Pease AR, Shah M, Dhand A, Johnston SC, Josephson SA (2011). A randomized trial of hypothesis-driven vs screening neurological examination. *Neurology* 77(14), 1395-1400.
- 7. Grady E, Roise A, Barr D, Lynch D, Lee LBS, Daskivich T, **Dhand A**, Butler PD (2012). Defining scholarly activity in graduate medical education. *Journal of Graduate Medical Education* 4(4), 558-561.
- 8. **Dhand A**, Engstrom J, Dhaliwal G (2013). How experienced community neurologists make diagnoses during clinical encounters. *Neurology* 81(16), 1460-1466.
- 9. **Dhand A**, Harp J, Borgatti SP (2014). Leadership in neurology: a social network analysis. *Annals of Neurology* 75(3), 342-350.

- 10. Luke DA, Carothers BJ, **Dhand A**, Bell RA, Moreland-Russell S, Sarli CC, Evanoff BA (2015). Breaking down silos: Mapping growth of cross-disciplinary collaboration in a translational science initiative. *Clinical and Translational Science* 8(2), 143-149.
- 11. **Dhand A**, Luke DA, Carothers BJ, Evanoff BA (2016). Academic Cross-Pollination: The role of disciplinary affiliation in research collaboration. *PLOS ONE* 11(1), p.e015916.
- 12. Ong CJ, **Dhand A**, Diringer MN (2016). Early withdrawal decision-making in patients with coma after cardiac arrest: A qualitative study of intensive care clinicians. *Neurocritical Care* 25(2), 258-265.
- 13. **Dhand A**, Dalton AE, Luke DA, Gage BF, Lee JM (2016). Accuracy of wearable cameras to track social interactions in stroke patients. *Journal of Stroke and Cerebrovascular Diseases*, 25(12), 2907-2910.
- 14. **Dhand A**, Bucelli R, Varadhachary A, Tsiaklides M, de Bruin G, Dhaliwal G (2017). Monitoring the diagnostic process on an inpatient neurology service. *Neurohospitalist*, 7(3): 132-136.
- 15. <u>Kumar P</u>, **Dhand A**, Tabak RG, Brownson RC, Yadama GN (2017). Adoption and sustained use of cleaner cooking fuels in rural India: A case control study protocol to understand household, network, and organizational drivers. *Archives of Public Health*, 75:70, DOI 10.1186/s13690-017-0244-2.
- 16. <u>Patel RR</u>, Luke DA, Proctor EK, Powderly WG, Chan PA, Mayer KH, Harrison LC, **Dhand A** (2018). Sex venue-based network analysis to identify HIV prevention dissemination targets for men who have sex with men. *LGBT Health*, 5(1): 78-85.
- 17. **Dhand A**, Longstreth Jr WT, Chaves PHM, Dhamoon MS (2018). Social network trajectories in myocardial infarction versus ischemic stroke. *Journal of the American Heart Association*, 7(8): e008029.
- 18. **Dhand A**, White CC, Johnson C, Xia Z, De Jager P (2018). A scalable online tool for quantitative social network assessment reveals potentially modifiable social environmental risks. *Nature Communications*, 9(1): 3930-3939.
- 19. <u>Prusaczyk B</u>, Kripanlani S, **Dhand A.** (2019). Networks of hospital discharge planning teams and readmissions. *Journal of Interprofessional Care*, 33(1): 85-92.
- 20. **Dhand A**, Luke DA, Lang CE, <u>Tsiaklides M</u>, Feske S, Lee JM (2019). Social networks and risk of delayed hospital arrival after acute stroke. *Nature Communications*, 10: 1206-1214.

21.

#### Scholarship without named authorship

22. Johnston SC, Easton JD, Farrant M, and the POINT Investigators\* (2018). Clopidogrel and aspirin in acute ischemic stroke and high-risk tia. *New England Journal of Medicine*, 379(3): 215-225.

#### Reviews, chapters, case reports, and commentaries

- 23. **Dhand A**, Dhaliwal G. (2010). Examining patient conceptions: A case of metastatic breast cancer in an African American male to female transgender patient. *Journal of General Internal Medicine*, 25(2), 158-61.
- 24. **Dhand A**, Nakagama K, Nagpal S, Gelfand JM, Kim AS, Smith WS, Tihan T (2010). Cardiac rupture after intravenous t-PA administration in acute ischemic stroke. *Neurocritical Care* 13(2), 261-2.
- 25. **Dhand A**, Zhang X, Josephson SA (2010). Increasing aerobic exercise in the community: The adult playground in Beijing, China. *Archives of Neurology* 67(10), 1283.
- 26. **Dhand A** (2012). Right Brain: The case library as a tool to enhance clinical observation. *Neurology* 78(7): 512-513.
- 27. **Dhand A**, Engstrom J, Dhaliwal G (2014). Author response. *Neurology* 82(17), 1568.
- 28. **Dhand A**, Aminoff MJ (2014). The neurology of itch. *Brain* 137(2), 313-322.
- 29. **Dhand A**, Landau WM (2014). Hemicraniectomy for middle-cerebral-artery stroke. *New England Journal of Medicine* 379(24), 2346.
- 30. Lewis SL, Jozefowicz RF, Kilgore S, **Dhand A**, Edgar L (2014). Introducing the Neurology Milestones. *Journal of Graduate Medical Education* 6(1s1), 102-104.
- 31. <u>Kang P</u>, **Dhand A** (2015). Teaching video neuroimages: Movement of a paralyzed arm with yawning. *Neurology* 84(16), e118.
- 32. **Dhand A** (2015). Quality metrics in inpatient neurology. Seminars in Neurology 35(6), 708-715.
- 33. **Dhand A**, Feske S (2016). Caregivers and families of critically ill patients. *New England Journal of Medicine* 375(10), 1000.
- 34. **Dhand A**, Luke DA, Lang CE, Lee JM (2016). Social networks and neurological illness. *Nature Reviews Neurology* 12(10), 605-612.
- 35. Renault S, **Dhand A** (2017). Converse well-being of locked-in patients and caregivers. *Annals of Neurology* 82(3):490-491.
- 36. Lee C, <u>Thon JM</u>, **Dhand A** (2017). Clival metastasis from a gastrointestinal adenocarcinoma causing multiple cranial neuropathies. *BMJ Case Reports*, pii: bcr-2017-222725. doi: 10.1136/bcr-2017-222725.
- 37. Luke DA, **Dhand A**, Carothers BJ (2017). Social network analysis. In Drs. Galea and El-Sayed (Eds.), *Systems Science and Population Health*.
- 38. Maamari RN, Stunkel L, Kung NH, Ferguson CJ, Tanabe J, Schmidt RE, Dahiya S, **Dhand A**, Van Stavern GP, Rajagopal R, Harocopos GJ (2019). Acute posterior multifocal placoid pigment epitheliopathy complicated by fatal cerebral vasculitis. *J Neuroophthalmol*, Epub ahead of print.
- 39. Zachrison K, **Dhand A**, Schwamm LH, Onnela J-P (in press). A network approach to stroke systems of care. *Circulation: Cardiovascular Quality and Outcomes*.

#### Non-peer reviewed scientific or medical publications/materials in print or other media

- 1. **Dhand A**, Douglas V (2010). Neurology. Le, Bushan, Bagga (Eds), *First Aid for the USMLE Step* 3. New York: McGraw Hill, 235-256.
- 2. **Dhand A**, Douglas V (2010). Ethics and Statistics. Le, Bushan, Bagga (Eds), *First Aid for the USMLE Step 3*. New York: McGraw Hill, 91-102.

#### Professional educational materials or reports, in print or other media

- 1. **Dhand A**, Mandell J, Lieberman G (2007). http://www.lesionlocalizer.com. World Wide Web, available November 1, 2007.
- 2. **Dhand A** (2009). http://sites.google.com/site/neurologylaunchpad. World Wide Web, available November 1, 2009.
- 3. **Dhand A** (2010, 2011, 2012, 2013, 2014). NeuroBoard: A dry erase map of the brain.
- 4. **Dhand A** (2014). CardioBoard: A dry erase map of the heart.
- 5. **Dhand A** (2014). Hemicraniectomy Decision Aid.
- 6. **Dhand A** (2015, 2016, 2017, 2018, 2019). http://www.dhandlab.com. World Wide Web, available July 1, 2015.
- 7. Munz, Michelle (January 28, 2016). How social networks affect recovery after a stroke. *St. Louis Post-Dispatch*. https://www.stltoday.com/lifestyles/health-med-fit/health/how-social-networks-affect-recovery-after-a-stroke/article 8672f9e1-d87e-5cf0-bafe-b6b4a273c96c.html.
- 8. Bahrampour, Tara (September 12, 2016). To stay healthy as we age, large social networks trump close-knit ones. *Washington Post*. https://www.washingtonpost.com/local/social-issues/to-stay-healthy-as-we-age-large-social-networks-trump-close-knit-ones/2016/09/11/d1154376-7818-11e6-bd86-b7bbd53d2b5d story.html?utm term=.0e3fe3f723ba.

#### Thesis

**Dhand A** (2006). Peer learning among a group of heroin addicts in India: An ethnographic study. DPhil thesis. Green College, Oxford University.

#### Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings

- 1. **Dhand A**, <u>Harp J</u>, Borgatti S (2014). Social network analysis of presidents in neurology organizations since 1948. American Academy of Neurology 2014. Philadelphia, PA.
- 2. **Dhand A**, Varadhachary A, de Bruin G, Bucelli R. (2014). Neurohospitalist database to track diagnoses: Design and preliminary results. Neurohospitalist meeting 2014. Denver, CO.

- 3. Carothers B, Luke D, **Dhand A**, Moreland-Russell S, Sarli C, Evanoff B (2014). Mapping the Growth of Transdisciplinary Partnerships over Time in a Large Scientific Initiative. Sunbelt 2014. St. Pete Beach, FL.
- 4. **Dhand A**, Luke D, Tsiaklides M, Lang C, Lee J-M (2015). Patients' social networks influence timing of hospital arrival after acute ischemic stroke. 140th Annual Meeting of the American Neurological Association. Chicago, IL.
- 5. **Dhand A.** (2015). Personal networks influence timing of hospital arrival after stroke [oral abstract]. Sunbelt 2015. Brighton, United Kingdom.
- 6. **Dhand A** (2015). Social network analysis in R applied to stroke patients' health behaviors [oral abstract]. Effective Applications of R Conference, London, United Kingdom.
- 7. **Dhand A**, Luke D, <u>Tsiaklides M</u>, Lang C, Lee J-M (2016). Patients' social networks influence timing of hospital arrival after acute ischemic stroke: A mixed methods study. International Stroke Conference 2016. Los Angeles, CA.
- 8. **Dhand A**, Dalton A, Luke D, Gage BF, Lee J-M (2016). Accuracy of wearable cameras to tract social interactions in stroke patients. 141th Annual Meeting of the American Neurological Association. Baltimore, MD.
- 9. Bucelli R, Varadhachary A, de Bruin G, **Dhand A** (2016). Clinician-defined case mix on an academic inpatient neurology service. 141th Annual Meeting of the American Neurological Association. Baltimore, MD.
- 10. **Dhand A**, <u>Cornelius S</u> (2016). Understanding hospital networks to improve patient outcomes and reduce healthcare costs. Effective Applications of R Conference, Boston, MA.
- 11. **Dhand A** (2017). Patient-sharing hospital network centrality and its effect on inpatient mortality. NetSci 2017. Indianapolis, IN.
- 12. **Dhand, A.**, Longstreth Jr., W.T., Chaves, P.H.M., Dhamoon, M.S. (2017) Social network trajectories in ischemic stroke versus myocardial infarction. Neurocritical Care Society 2017. Big Island, HI.
- 13. **Dhand A**, Luke D, <u>Kim A</u>, Feske SK, Lang C, Lee J-M (2018). Network size at stroke onset is associated with 6-month stroke outcomes. International Stroke Conference 2018. Los Angeles, CA.
- 14. **Dhand A**, Luke DA, Lang CE, <u>Tsiaklides M</u>, Feske S, Lee JM (2018). Social network size at stroke onset is associated with 3 and 6-month stroke outcomes [oral abstract]. Neurohospitalist Conference 2018. St. Louis, MO.
- 15. **Dhand A**, <u>Kim A</u>, Li K, Feske S (2018). Egocentric networks in medicine [oral abstract]. Sunbelt 2018. Utrect, Netherlands.
- 16. <u>Levin S</u>, **Dhand A**, Riley C, De Jager P, Leavitt V (2018). Social network structure is a novel protective factor related to cognitive reserve in MS. ECTRIMS 2018. Berlin, Germany.

- 17. <u>Kumar P</u>, Yadama G, **Dhand A**, Tabak R, Brownson R (2019). Role of gender based networks in adoption of cleaner cooking fuels: Evidence from rural India. Energy and Society in Transition: 2<sup>nd</sup> International Conference on Energy Research and Social Science. Tempe, AR.
- 18. **Dhand A** (2019). Retired NFL players' personal networks and relation to general health metrics. Sunbelt 2019. Montreal, Canada.
- 19. Levin A, Dhand A, Xia Z, De Jagger P. Social network structure is associated with physical function and disability severity in adults with multiple sclerosis. ECTRIMS 2019. Stockholm, Sweden.

#### **Narrative Report**

The narrative should describe your major contributions and achievements and should be clear to those outside your field. Readers should understand your career trajectory and impact. Your need not reiterate your history of training, but the chronology of your accomplishments should be clear. You should make clear the extent of your reputation and the key achievements for which you are known. If your accomplishments bridge difference arenas (e.g., research and clinical care), you may wish to clarify any connections that are not readily apparent.

The narrative should be written in the first person and should be concise. In general, length should be commensurate with rank. Most narratives for Assistant Professor candidates should ≤ page; no narrative should exceed two pages.

#### Please include:

- Your contributions in your Area of Excellence (Investigation, Teaching and Educational Leadership, or Clinical Expertise and Innovation). You may want to include a description of work in progress that may otherwise not be reflected in your CV.
- Your contributions in teaching (if not already described under your Area of Excellence).
- Your contributions in any Significant Supporting Activities (Investigation, Clinical Expertise, Special Merit in Education, Administration & Institutional Service, Education of Patients and Service to the Community).

I have been a nationally-funded clinician investigator since 2014, leading my own laboratory in the innovative area of social networks in neurological disease. I have served as the PI on 1 NIH K23 grant, 1 AHA grant, and 4 foundation grants. As a board-certified neurologist and Assistant Professor of Neurology at Harvard Medical School, I supervise residents and medical students in inpatient and consult neurology services for 10-12 weeks per year. Currently, I spend 75% of my time on research and mentoring within the context of social networks and neurological disease.

In my clinical capacity, I have led innovative initiatives that have received national recognition. In 2013-2014, I was part of creating the Neurology Milestones with the ACGME. As the rubric to define the core domains of expertise of a graduating neurology resident, the Neurology Milestones have been adopted nation-wide. In 2014-2016, I created a diagnosis monitoring tool for inpatient neurology. This tool tracked the process of making a diagnosis by inpatient clinicians. The results were presented at national professional conferences and published in the *Neurohospitalist*. I was also the creator of the NeuroBoard, a hand-held dry erase map of the brain that serves as a teaching tool for trainees and patients. The tool was copyrighted by the Regents of the University of California and sold nationally and internationally by the American Academy of Neurology Store.

In my research capacity, I lead the Dhand Lab (www.dhandlab.com), a multi-disciplinary research group with an international reputation. We explore the longitudinal effects of social network risk factors underlying stroke. For this work, we've created new open source instruments for quantitative assessment of social networks in neurology patients. These instruments have been adopted for studies across diseases including traumatic brain injury, multiple sclerosis, amyotrophic lateral sclerosis, and prostate cancer. Our research has been nationally and internationally recognized as a new lens on neurological disease. I have discussed our work in 5 grand round presentations. Our work has been featured in national and international conferences, lay person outreach events, and public newspapers and radio shows. I have published 38 articles, including reports in high impact journals such as *Nature Communications*, *Annals of Neurology*, and *Neurology*.

A particular emphasis of mine throughout my career has been to mentor younger colleagues toward academic careers. Collectively, I have mentored 14 mentees who have published 5 first author papers in leading journals. They have also been successful in varied career paths including medical school, clinician investigator, and data scientist.