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PERSONAL STATEMENT

I am a physician-scientist with a doctorate in neurogenetics, residency in neurology, and a fellowship in neurodegenerative disorders. I have gained multi-disciplinary domain knowledge, clinical, scientific, and technical skills required for therapeutically oriented translational research in neurodegenerative diseases. I joined the UCSF faculty of Neurology in 2018 where I built a therapeutic discovery program for genetic vasculopathies, and in 2022, was recruited to the Icahn School of Medicine at Mount Sinai to establish a world-class fluid biomarker research program in neurodegenerative disorders and to build a bed to bedside translational research program focused on vascular neurodegenerative diseases. In my clinical practice, I evaluate and treat patients with progressive neurobehavioral dysfunctions, cerebrovascular disease, leukodystrophies, classical diagnosis of Alzheimer's disease, frontotemporal dementias, and Parkinson's spectrum disorders. My research has focused on developing biomarkers and approaches for quantification of immuno-vascular diseases, with an all-in-human pipeline. We combine molecular and cellular phenotyping using human biospecimens and iPSC-derived in vitro cellular models with clinical and imaging data to identify the molecular and cellular correlates of human phenotypes suitable for therapeutic interventions. My collaborations involve investigations of fluid biomarkers across neurological disorders, especially vascular and neuropsychiatric disorders, and my lab's work is currently focused on using our bed to bedside pipeline for discovery of therapeutics for monogenics of vascular cognitive impairment and dementia, CADASIL (Cerebral Autosomal Dominant Arteriopathy Subcortical Infarcts and Leukoencephalopathy), with relevance to brain vascular aging and dementia.

ACADEMIC APPOINTMENTS

- 2024 - pres. **Associate Professor (Investigator Track), Icahn School of Medicine at Mount Sinai**
 Departments of Neurology, Neuroscience, and Pathology, Molecular and Cell-based Medicine
 Friedman Brain Institute, Ronald M. Loeb Center for Alzheimer's Disease, and
 Cardiovascular Research Institute
- 2022 – 2024 **Assistant Professor (Investigator Track), Icahn School of Medicine at Mount Sinai**
 Departments of Neurology, Neuroscience, and Pathology, Molecular and Cell-based Medicine
 Friedman Brain Institute, Ronald M. Loeb Center for Alzheimer's Disease, and
 Cardiovascular Research Institute
- 2018 – 2022 **Assistant Professor (In Residence), University of California San Francisco (UCSF)**
 Department of Neurology
- 2015 – 2018 **Behavioral Neurology Fellow & Instructor, University of California San Francisco**
 Department of Neurology

EDUCATION

- 2007 – 2011 **Icahn School of Medicine at Mount Sinai**
Doctor of Medicine (MD)
- 2004 – 2007 **University of Oxford**
DPhil, Neurogenetics, WTCHG
Advisor: Drs. Simon Fisher, Anthony Monaco, and Christopher Pugh
- 1999 – 2003 **Columbia University**
BA, Comparative Literature and Society
Hons. Advisors: Drs. Rita Charon and Gil Anidjar

POST-GRADUATE TRAINING

- 2015 – 2018 **Fellowship, Behavioral Neurology**
Memory and Aging Center, University of California San Francisco (UCSF)
- 2012 – 2015 **Residency, Neurology**
Department of Neurology, University of California Los Angeles (UCLA)
- 2011 – 2012 **Medical Internship**
Department of Medicine, BGDMC, University of Arizona

LICENSURE & BOARD CERTIFICATION

- 2015 – pres. **Board Certification, Neurology**
American Boards of Psychiatry and Neurology
- 2012 – pres. **Medical License**
California and New York (A125494)

CURRENT GRANT SUPPORT

- 2023 – 2028 **U24 AG082930: Alzheimer Diagnosis in older Adults with Chronic Conditions ADACC Network (PI: Mielke)**
NIH/NIA; Role: Co-investigator / Subaward PI
- 2023 – 2025 **Davos Alzheimer's Collaborative for the Healthcare System, Preparedness Project: Accurate Diagnosis of Alzheimer's Disease and Related Disorders**
Role: Principal Investigator
- 2023 – 2028 **UH2 AG083258: Research Infrastructure for the study of Alzheimer's Disease and Alzheimer's Disease-related dementias in older Asian Americans (PI: Li)**
Role: Co-Investigator
- 2023 – 2024 **U19 AG06391: ARTFL-LEFFTDS Longitudinal Frontotemporal Lobar Degeneration**
Role: Site Principal Investigator
- 2023 – 2024 **Friedman Brain Institute Research Scholars Partnership — Pilot Grants**
Role: Principal Investigator (Multi-PI)
- 2022 – 2026 **Chan-Zuckerberg Initiative**
Patient-Partnered Collaborations for Rare Neurodegenerative Disease
Role: Contact Principal Investigator
- 2022 – 2024 **Rainwater Charitable Foundation**
Competing Bridge Grant
Tau Consortium; Role: Principal Investigator
- 2022 – 2027 **Women's Economic Future Fund**

- Seneca Women & Rockefeller Philanthropy Advisors; Role: Principal Investigator
- 2021 – 2026 **VA - NIA (IK2 CX002180)**
VA and NIH; Role: Principal Investigator
- 2021 – 2026 **UF1 NS100608 MarkVCID: Biomarkers of Vascular Cognitive Impairment and Dementia (PI: Kramer)**
NIH-funded Consortium; Role: Co-investigator and Co-chair of Biofluid Committee
- 2020 – 2026 **U19 NS120384 DiverseVCID/INDEED (PIs: DeCarli & Fornage)**
NIH/NINDS; Role: Co-investigator / Subaward PI
- 2020 – 2025 **R01 NS116990 (PI: Wilcock)**
NIH/NINDS; Role: Co-investigator/ Subaward PI
- 2019 – 2025 **U19 Post-Stroke Vascular Contributions to Cognitive Impairment and Dementia (PI: Rost)**
NIH; Role: Co-investigator
- 2019 – 2024 **Donors Cure Foundation: New Vision Award in Alzheimer's Disease**
Role: Principal Investigator

PAST GRANT SUPPORT

- 2019 – 2024 **AHA - Paul Allen Frontiers Group Initiative in Brain Health and Cognitive Impairment**
Role: Co-investigator/ Subaward PI
- 2019 – 2022 **Larry L. Hillblom Foundation Start-up Grant**
Role: Principal Investigator
- 2019 – 2021 **UH3 NS100614**
NIH/NINDS; PI: Wang; Role: Co-investigator
- 2017 – 2018 **UCSF Alzheimer's Disease Research Center Pilot Grant**
Role: Principal Investigator
- 2016 – 2021 **UH2/3 NS100608**
NIH; PI: Kramer/DeCarli; Role: Co-investigator and fluid biomarker lead
- 2016 – 2018 **American Academy of Neurology Research Fellowship**
Fellowship award
- 2004 – 2007 **Medical Research Council DPhil Scholarship**
Oxford University, Pre-doctoral award

AWARDS, HONORS & RECOGNITIONS

- 2023 **Friedman Brain Institute Scholar Award**
- 2023 - pres. **Chair, Vascular Cognitive Impairment Modeling Workgroup, Alz Association**
- 2021 – 2023 **Chair, Vascular Cognitive Disorders PIA**
International Society to Advance Alzheimer's Research and Treatment
- 2021 **Scientific Advisory Board**
Albert White Matter Research Institute
- 2019 – 2021 **Vice Chair, Vascular Cognitive Disorders PIA**
International Society to Advance Alzheimer's Research and Treatment
- 2019 **New Vision Award**
Charleston Conference on Alzheimer's Disease

- 2017 **Friday Harbor Genetics of Cognitive Aging Workshop Scholar**
- 2017 **Advanced Training in Clinical Research Scholar**
University of California San Francisco
- 2016 – 2018 **Clinical Research Training Fellowship in Alzheimer’s Disease**
American Academy of Neurology and Allergan Foundation
- 2015 **Best Research Poster**
UCLA Neuroscience Trainee Annual Meeting
- 2014 **Best Clinical Poster**
UCLA Neuroscience Trainee Annual Meeting
- 2013 **Records Stroke Response Time, “Door to Needle Time”**
UCLA Stroke Neurology
- 2008 **Carolyn L. Kuckein Research Scholarship**
Alpha Omega Alpha
- 2004 – 2008 **Medical Research Council (MRC) Doctor of Philosophy Scholarship**
- 2004 – 2007 **Northwick Park Institute for Medical Research Scholarship (NPIMR)**
- 2003 **Royal Society Student Scholarship**
- 2002 **Columbia University Departmental Honors Nomination**

PUBLICATIONS

**Indicates corresponding authorship*

Papers under review, in revision, or in press:

90. Tan LX, Oertel FC, Cheng A, Cobigo Y, Keihani A, Fonseca C, Bennett DJ, Abdelhak A, Montes SC, Chapman M, Chen RY, Cordano C, Ward ME, Casaletto K, Kramer JH, Rosen HJ, Boxer A, Miller BL, Green AJ, **Elahi FM***, Lakkaraju A*. A feed-forward cycle of mitochondrial hyperfusion and C3a Receptor signaling mediates microglial activation and retinal degeneration in progranulin-deficient frontotemporal dementia. *Neuron* - under review.
89. Me Xi, Yang Z, Wang X, Shi A, Blanchard J, **Elahi FM**, Kang H, Orive G, Zhang YS. Strategies to Mimic Tissue Vascularization with Microfluidic and Bioprinting Technologies. *Lab on a Chip* - in revision.
88. Tan LX, Oertel FC, Cheng A, Cobigo Y, Keihani A, Bennett DJ, Abdelhak A, Montes SC, Chapman M, Chen RY, Cordano C, Ward ME, Casaletto K, Kramer JH, Rosen HJ, Boxer A, Miller BL, Green AJ, **Elahi FM**, Lakkaraju A. Targeting complement C3a receptor resolves mitochondrial hyperfusion and subretinal microglial activation in progranulin-deficient frontotemporal dementia. *bioRxiv*.
DOI: <https://doi.org/10.1101/2024.05.29.595206>
87. Keller JN, Radabaugh H, Karvelas N, Fitzsimons S, Treiman S, Palafox MF, McDonnell L, Quiroz YT, Lopera FL, Banerjee D, Wang MM, Arbolde-Velasquez JF, Meschia JF, Ferguson AR, **Elahi FM** Plasma proteomics of genetic brain arteriosclerosis and dementia syndrome identifies signatures of fibrosis, angiogenesis, and metabolic alterations. *bioRxiv: Science Advances* - submitted.
DOI: <https://doi.org/10.1101/2024.03.28.587249>
86. Paolillo EW, Casaletto KB, Clark AL, Taylor JC, Heuer HW, Wise AB, Dhanam S, Sanderson-Cimino M, Saloner R, Kramer JH, Kornak J, Kremers W, Forsberg L, Appleby B, Bayram E, Bozoki A, Brushaber D, Darby R, Day GS, Dickerson BC, Domoto-Reilly K, **Elahi FM**, Fields JA, Ghoshal N, Graff-Radford N, Hall MGH, Honig LS, Huey ED, Lapid MI, Litzan I, Mackenzie IR, Masdeu JC, Mendez MF, Mester C, Miyagawa T, Naasan G, Pascual B, Pressman P, Ramos EM, Rankin KP, Rexach J, Rojas JC, VandeVrede L, Wong B, Wszolek ZK, Boeve BF, Rosen HJ, Boxer AI,

- Staffaroni AM. Examining Associations Between Smartphone Use and Clinical Severity in Frontotemporal Dementia: Proof-of-Concept Study. *Journal of Medical Internet Research* - *accepted*.
85. Hao Q, Wang E, Wang J, Wu Z, Crary JF, Sharma S, Thorn EL, **Elahi FM**, Zhang B, Peng J. Proteomic profiling of intracranial atherosclerotic plaque in the human brain. *bioRxiv*. DOI: <https://doi.org/10.1101/2024.02.10.579787>
84. Paolillo EW, Casaletto KB, Clark AL, Taylor JC, Heuer HW, Wise AB, Dhanam S, Sanderson-Cimino M, Saloner R, Kramer JH, Kornak J, Kremers W, Forsberg L, Appleby B, Bayram E, Bozoki A, Brushaber D, Darby R, Day GS, Dickerson BC, Domoto-Reilly K, Elahi FE, Fields JA, Ghoshal N, Graff-Radford N, Hall MGH, Honig LS, Huey ED, Lapid MI, Litzan I, Mackenzie IR, Masdeu JC, Mendez MF, Mester C, Miyagawa T, Naasan G, Pascual B, Pressman P, Ramos EM, Rankin KP, Rexach J, Rojas JC, VandeVrede L, Wong B, Wszolek ZK, Boeve BF, Rosen HJ, Boxer AL, Staffaroni AM. Reduced smartphone usage associates with greater clinical severity in frontotemporal dementia: Proof of concept for smartphone-based capture of real-world neurobehavior. *Journal of Medical Internet Research* - submitted.
83. Radabaugh RL, Treiman S, Keller J, Brathaban N, Meyer-Franke A, Casaletto K, Kramer JH, Pico A, Akassoglou K, Ferguson AR, **Elahi FM***. Blood brain barrier dysfunction is associated with changes in plasticity and the aging brain's decline in processing speed. *In prep*.
82. Clelland CD, Fan L, Etchegaray JI, Altobelli CR, Salomonsson S, Maltos AM, Sachdev A, Li Y, Zhou Y, Le D, Wang C, Carling G, Kodama L, Sayed F, Perez-Bermejo JA, Geier EG, Yokoyama JS, Rosen H, Alissa NL, Spina S, Grinberg LT, Seeley WW, **Elahi FM**, Arkin MR, Gan L. Opposing role of phagocytic receptors MERTK and AXL in Progranulin deficient FTD. *Nature Aging* - *in revision*.
81. Younes K, Cobbigo Y, Tsuie T, Wang E, Wolf A, Schwartz D, La Joie R, Soleimani-Meigooni DN, Asken B, Mundada NS, Tosun D, Kramer JH, Ferguson A, Mormino E, Miller BL, Silbert L, Rabinovici G, Rosen HJ, **Elahi FM**. Enlarged perivascular space volumes in early versus late age-of-onset Alzheimer's disease. *medRxiv; Alzheimer's and Dementia* - *submitted*. DOI: <https://doi.org/10.1101/2023.08.01.23293514>
80. Owens CD, Pinto CB, Mukli P, Gulej R, Velez FS, Detwiler S, Olay L, Hoffmeister JR, Szarvas Z, Muranyi M, Peterfi A, Pinaffi-Langley ACC, Adams C, Sharps J, Kaposzta Z, Prodan CI, Kirkpatrick A, Tarantini S, Csiszar A, Ungvari Z, Olson A, Li G, Balasubramanian P, Galvan V, Bauer A, Smith ZA, Dasari TW, Whitehead S, Medapati MR, **Elahi FM**, Thanou A, Yabluchanskiy A. Neurovascular coupling, functional connectivity and cerebrovascular endothelial extracellular vesicles as biomarkers of mild cognitive impairment. *Alzheimer's & Dementia* - *accepted*.
79. Gupta A, Pires PW, Barone FC, Billinger SA, Carmichael ST, Cortes CJ, Daneman R, Hu X, Kaufer D, Levendovszky SR, Sorond FA, Stillman CM, Tarantini S, Wilcock DM, Williamson JD, Yabluchanskiy A, **Elahi FM*** & Zuloaga KL. From dark horse to front-runner: Vascular contributions to brain health. Proceedings of the 2022 Annual Workshop of the Albert Research Institute for White Matter and Cognition. *GeroScience* - *accepted*.
78. Graff RE, Swinnerton K, Ackley SF, Ospina-Romero M, Zimmerman SC, Wang J, Buto P, Chen DM, Nierenberg JL, **Elahi FM**, Lu, KP, Witte JS, Glymour MM. Evaluation of polygenic risk scores for a possible inverse genetic basis of the inverse association between cancer and cognitive decline. *Alzheimer's & Dementia* - *accepted*.
77. Torres-Espin A, Radabaugh H, Harvey D, Chou A, Lindberg C, Rivera-Contreras W, Casaletto KC, Goldberger L, Staffaroni AM, Maillard P, Miller BL, DeCarli C, Hinman JD, Ferguson AR, Kramer JH, **Elahi FM***. Sexually dimorphic differences in angiogenesis markers predict brain aging trajectories. *bioRxiv; Science Translational Medicine* - *Accepted*. DOI: <https://doi.org/10.1101/2023.07.16.549192>
PMID: 37503183

76. Cosima Oertel F, Younes K, Cobigo Y, Keihani A, Fonseca C, Bennett DJ, Abdelhak A, Saias A, Condor Montes S, Chen RY, Cordano C, Ward M, Casaletto K, Kramer JH, Rosen HJ, Miller BL, Green AJ & **Elahi FM***. Retinal changes predict cognitive decline in progranulin haploinsufficient frontotemporal dementia. *Science Translational Medicine* – in revision.

2024

75. Singhal N, Manwani B, Brathaban N, Baqai A, Munshi Y, Ahnstedt HW, Zhang M, Arkelius K, Llerra T, Amorim E & **Elahi FM**. Small RNA signatures of acute ischemic stroke in L1CAM positive extracellular vesicles. *Scientific Reports*.

DOI: <https://doi.org/10.1038/s41598-024-63633-4>

74. Nyúl-Tóth Á, Patai R, Csiszar A, Ungvari A, Gulej R, Mukli P, Yabluchanskiy A, Benyo Z, Sotonyi P, Prodan CI, Liotta EM, Toth P, Elahi F, Barsi P, Maurovich-Horvat P, Sorond FA, Tarantini S, Ungvari Z. Linking peripheral atherosclerosis to blood-brain barrier disruption: elucidating its role as a manifestation of cerebral small vessel disease in vascular cognitive impairment. *Geroscience*.

DOI: 10.1007/s11357-024-01194-0.

73. Windon, C, **Elahi, FM**. Vascular Cognitive Impairment. In: Ovbiagele, B., Kim, A.S. (eds) *Ischemic Stroke Therapeutics* (pp. 399-424). Springer, Cham.

DOI: https://doi.org/10.1007/978-3-031-49963-0_30

72. Karvelas N, Oh B, Wang E, Cobigo Y, Tsuei T, Fitzsimons S, Younes K, Ehrenberg A, Geschwind M, Schwartz D, Kramer J, Ferguson A, Miller BL, Silbert L, Rosen H, **Elahi FM***. Enlarged perivascular spaces are associated with white matter injury, cognition and inflammation in cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. *Brain Communications*.

DOI: <https://doi.org/10.1093/braincomms/fcae071>

2023

71. Kelly L, Brown C, Michalik D, Hawkes CA, Aldea R, Agarwal N, Salib R, Alzetani A, Ethell DW, Counts SE, de Leon M, Fossati S, Koronyo-Hamaoui M, Piazza F, Rich SA, Wolters FJ, Snyder H, Ismail O, **Elahi FM**, Proulx ST, Verma A, Wunderlich H, Haack M, Dodart JC, Mazer N, Carare RO. Clearance of interstitial fluid (ISF) and CSF (CLIC) group-part of Vascular Professional Interest Area (PIA), updates in 2022-2023. Cerebrovascular disease and the failure of elimination of Amyloid- β from the brain and retina with age and Alzheimer's disease: Opportunities for therapy. *Alzheimer's & Dementia*.

DOI: <https://doi.org/10.1002/alz.13512>

70. Meschia JF, Worrall BB, **Elahi FM**, Ross OA, Wang MM, Goldstein ED, Rost NS, Majersik JJ, Gutierrez J. Management of inherited CNS small vessel diseases: the CADASIL example. *American Heart Association Scientific Statement*. 2023;54:e452–e464.

DOI: <https://doi.org/10.1161/STR.0000000000000444>

PMID: 37602377

69. Hainsworth AH, Arancio O, **Elahi FM**, Isaacs JD & Cheng F. PDE5 inhibitor drugs for use in dementia? *Alzheimer's & Dementia: Translational Research and Clinical Interventions*. 2023 Jul-Sep; 9(3): e12412.

DOI: <https://doi.org/10.1002/trc2.12412>

PMID: 37766832

68. **Elahi FM**, Castellano JM, Goate AM. Advances in neurodegenerative disease research: Setting the stage for new therapeutics. *The Frontiers of Medical Research: Brain Science* (Science/AAAS, Washington, DC).

67. Karvelas N & **Elahi FM**. White Matter Hyperintensities: Complex Predictor of Complex Outcomes. *Journal of the American Heart Association*. 2023;0:e030351.
DOI: <https://doi.org/10.1161/JAHA.123.030351>
PMID: 37349890
66. Anisetti B, Greco E., Stojadinovic E, Sakusic A, Badi MK, Lin MP, Chiang C, Liu MD, **Elahi FM**, Goldstein E, Worrall B, Petrosian D, Ross O, Meschia JF. Novel Grading System for CADASIL Severity: A Multicenter Cross-sectional Study. *Cerebral Circulation - Cognition and Behavior*. 2023; 5:100170
DOI: <https://doi.org/10.1016/j.cccb.2023.100170>
PMID: 37441712
65. **Elahi FM**, Alladi S, Black SE, Claassen JAHR, DeCarli C, Hughes TM, Moonen J, Pajewski NM, Price BR, Satizabal C, Shaaban CE, Silva NCBS, Snyder HM, Sveikata L, Williamson JD, Wolters FJ, Hainsworth AH. Clinical trials in vascular cognitive impairment following SPRINT-MIND: An international perspective. *Cell Reports Medicine*. 2023; 4(6):101089.
DOI: <https://doi.org/10.1016/j.xcrm.2023.101089>
PMID: 37343515
64. **Elahi FM**, Wang M, Meschia J. Cerebral small vessel disease (CSVD)-related dementia: more questions than answers. *Stroke*. 2023; 54:648–660.
DOI: <https://doi.org/10.1161/STROKEAHA.122.038265>
PMID: 36848423
63. Roseborough AD, Myers SJ, Khazee R, Zhu Y, Zhao L, Iorio E, **Elahi FM**, Pasternak SH, Whitehead SN. Plasma derived extracellular vesicle biomarkers of microglia activation in an experimental stroke model. *Journal of Neuroinflammation*. 2023; 20.
DOI: <https://doi.org/10.1186/s12974-023-02708-x>
PMID: 36721258
62. Snyder A, Grant H, Chou A, Lindbergh CA, Kramer JH, Miller BL, **Elahi FM***. Immune cell counts in cerebrospinal fluid predict cognitive function in aging and neurodegenerative disease. *Alzheimer's & Dementia*, 2023; 1-11.
DOI: <https://doi.org/10.1002/alz.12956>
PMID: 36791265
61. Hinman JD, **Elahi FM**, Chong D, Radabaugh H, Ferguson A, Maillard P, Thompson JF, Rosenberg GA, Sagare A, Moghekar A, Lu H, Lee T, Wilcock D, Satizabal CL, Tracy R, Seshadri S, Schwab K, Helmer K, Singh H, Kivisäkk P, Greenberg S, DeCarli C, Kramer J. Placental growth factor as a sensitive biomarker for vascular cognitive impairment. *Alzheimer's & Dementia*
DOI: <https://doi.org/10.1002/alz.12974>
PMID: 36815663.
- 2022**
60. Piehl N, Olst LV, Ramakrishnan A, Teregulova V, Simonton B, Zhang Z, Tapp E, Channappa D, Oh H, Losada PM, Rutledge J, Trelle AN, Mormino EC, **Elahi FM**, Galasko DR, Henderson VW, Wagner AD, Wyss-Coray T, Gate D. Cerebrospinal fluid immune dysregulation during healthy brain aging and cognitive impairment. *Cell* 185, 5028–5039.
DOI: <https://doi.org/10.1016/j.cell.2022.11.019>
PMID: 36516855
59. Abdelhak A, Solomon I, Montes SC, Saias A, Cordano C, Asken B, Fonseca C, Cosima Oertel F, Arfanakis K, Staffaroni AM, Kramer JH, Geshwind M, Miller BL, **Elahi FM*** & Green AJ. Retinal arteriolar parameters as a surrogate marker of intracranial vascular pathology. *Alzheimer's & Dementia*, 14:e12338.

DOI: <https://doi.org/10.1002/dad2.12338>

PMID: 35814617

58. Abdelhak A, Cordano C, Boscardin WJ, Caverzasi E, Kuhle J, Chan B, Gelfand JM, Yiu HH, Oertel FC, Beaudry RA, Condor Montes S, Oksenberg JR, Lario Lago A, Boxer A, Rojas-Martinez JC, **Elahi FM**, Chan JR & Green AJ. Plasma neurofilament light chain levels suggest neuroaxonal stability following therapeutic remyelination in people with multiple sclerosis. *Journal of Neurology, Neurosurgery & Psychiatry*, Jun 16;jnnp-2022-329221.

DOI: <https://doi.org/10.1136/jnnp-2022-329221>

PMID: 35710320

57. Younes K, Borghesani V, Montembeault M, Spina S, Mandelli ML, Welch AE, Weis E, Callahan P, **Elahi FM**, Hua AY, Perry DC, Karydas A, Geschwind D, Huang E, Grinberg LT, Kramer JH, Boxer AL, Rabinovici GD, Rosen HJ, Seeley WW, Miller ZA, Miller BL, Sturm VE, Rankin KP & Luisa Gorno-Tempini M. Right temporal lobe and socioemotional semantics: semantic behavioral variant frontotemporal dementia. *Brain*, Jun 22;awac217.

DOI: <https://doi.org/10.1093/brain/awac217>

PMID: 35731122

56. Sexton CE, Anstey KJ, Baldacci F, Barnum CJ, Barron AM, Blennow K, Brodaty H, Burnham S, **Elahi FM**, Götz J, Jeon YH, Koronyo-Hamaoui M, Landau SM, Lautenschlager NT, Laws SM, Lipnicki DM, Lu H, Masters CL, Moyle W, Nakamura A, Pasinetti GM, Rao N, Rowe C, Sachdev PS, Schofield PR, Sigurdsson EM, Smith K, Srikanth V, Szoeki C, Tansey MG, Whitmer R, Wilcock D, Wong TY, Bain LJ & Carrillo MC. Alzheimer's disease research progress in Australia: The Alzheimer's Association International Conference Satellite Symposium in Sydney. *Alzheimer's & Dementia*, Jan;18(1):178-190.

DOI: <https://doi.org/10.1002/alz.12380>

PMID: 34058063

55. Whitehead SN, Bruno A, Burns JM, Carmichael ST, Csiszar A, Edwards JD, **Elahi FM**, Faraco G, Gould DB, Gustafson DR, Hachinski V, Rosenberg G, Sorond FA, Shih AY, Tse KH, Ungvari Z, Wilcock DM, Zuloaga KL & Barone FC. Expanding the horizon of research into the pathogenesis of the white matter diseases: Proceedings of the 2021 Annual Workshop of the Albert Research Institute for White Matter and Cognition. *Geroscience*, Feb;44(1):25-37.

DOI: <https://doi.org/10.1007/s11357-021-00461-8>

PMID: 34606040

54. Asken BM, VandeVrede L, Rojas JC, Fonseca C, Staffaroni AM, **Elahi FM**, Lindbergh CA, Apple AC, You M, Weiner-Light S, Brathaban N, Fernandes N, Boxer AL, Miller BL, Rosen HJ, Kramer JH & Casaletto KB. Lower White Matter Volume and Worse Executive Functioning Reflected in Higher Levels of Plasma GFAP among Older Adults with and Without Cognitive Impairment. *Journal of the International Neuropsychological Society*, Jul;28(6):588-599.

DOI: <https://doi.org/10.1017/S1355617721000813>

PMID: 34158138

2021

53. **Elahi FM***, Ashimatey BS, Bennett DJ, Jiang X, Walters SM, La Joie R, Wolf A, Cobigo Y, Staffaroni AM, Rosen HJ, Miller BL, Rabinovici GD, Kramer, JH, Green AJ & Kashani AH. Retinal imaging demonstrates reduced capillary density in clinically unimpaired APOE4 gene carriers. *Alzheimer's & Dementia*, May 11;13(1):e12181.

DOI: <https://doi.org/10.1002/dad2.12181>

PMID: 34013017

52. **Elahi FM***, Harvey D, Altendahl M, Casaletto KB, Staffaroni AM, Maillard P, Hinman JD, Miller BL, DeCarli C, Kramer JH & Goetzl EJ. Elevated complement mediator levels in

endothelial-derived plasma exosomes implicate endothelial innate inflammation in diminished brain function of aging humans. *Scientific Reports*, 11, 16198.

DOI: <https://doi.org/10.1038/s41598-021-91759-2>

PMID: 34376699

51. Lindbergh CA, Asken BM, Casaletto KB, **Elahi FM**, Goldberger LA, Fonseca C, You M, Apple AC, Staffaroni AM, Fitch R, Rivera Contreras W, Wang P, Karydas A, Kramer JH; Hillblom Aging Network. Interbatch Reliability of Blood-Based Cytokine and Chemokine Measurements in Community-Dwelling Older Adults: A Cross-Sectional Study. *Journals of Gerontology Series A Biological Sciences and Medical Sciences*, Oct 13;76(11):1954-1961.

DOI: <https://doi.org/10.1093/gerona/glab162>

PMID: 34110415

50. Hainsworth AH, **Elahi FM** & Corriveau RA. An introduction to therapeutic approaches to vascular cognitive impairment. *Cerebral Circulation – Cognition and Behavior*, 2:100033.

DOI: <https://doi.org/10.1016/j.cccb.2021.100033>

PMID: 34950896

49. Pajewski NM, **Elahi FM**, Tamura MK, Hinman JD, Nasrallah IM, Ix JH, Miller LM, Launer LJ, Wright CB, Supiano MA, Lerner AJ, Sudduth TL, Killeen AA, Cheung AK, Reboussin DM, Wilcock DM & Williamson JD. Plasma amyloid beta, neurofilament light chain, and total tau in the Systolic Blood Pressure Intervention Trial (SPRINT). *Alzheimer's & Dementia*, Aug;18(8):1472-1483.

DOI: <https://doi.org/10.1002/alz.12496>

PMID: 34786815

48. Memel M, Staffaroni AM, Cobigo Y, Casaletto KB, Fonseca C, Bettcher BM, Yassa MA, **Elahi FM**, Wolf A, Rosen HJ & Kramer JH. APOE moderates the effect of hippocampal blood flow on memory pattern separation in clinically normal older adults. 2021. *Hippocampus*, Aug;31(8):845-85.

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Included on reading list for Neurology Board Exams for the past 5 years

8. **Elahi FM***, Marx G, Cobigo Y, Staffaroni AM, Kornak J, Tosun D, Boxer AL, Kramer JH, Miller BL & Rosen HJ. Longitudinal white matter change in frontotemporal dementia subtypes and sporadic late onset Alzheimer's disease. *NeuroImage: Clinical*, Sep 14;16:595-603.

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2011

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1. Vernes SC, **Elahi FM**, Coventry JA, Kenny N, Coupe AM, Bird LE, Davies KE & Fisher SE. Functional genetic analysis of mutations implicated in a human speech and language disorder. *Human Molecular Genetics*, Nov 1;15(21):3154-67.

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INVITED PRESENTATIONS**Role**

2024	CADASIL Clinical Research Meeting November 28-29, Paris, France	Invited Speaker
	Clinical Trials on Alzheimer's Disease Conference (CTAD) October 29-November 1, Madrid, Spain	Invited Speaker
	Alzheimer's Association International Conference <i>Featured Research Session</i> <i>Understanding blood-brain barrier and neurovascular alterations in VCID and CAA: cellular, molecular mechanisms and therapeutic targets</i> July 31, Philadelphia, PA	Session Chair & Speaker
	Alzheimer's Association International Conference <i>Developing Topics Session</i> <i>Results from the SPRINT MIND Extended Follow-up: Long-Term Effects of Intensive vs. Standard Blood Pressure Control on Probable Dementia</i> July 31, Philadelphia, PA	Session Chair
	Alzheimer's Association International Conference <i>ISTAART Immersives</i> <i>Neuroimmune interactions and its impact on VCID</i> July 26, Philadelphia, PA	Organizer
	cureCADASIL Patient-Investigator Meeting June 29, Itasca, IL	Invited Speaker
	Grand Rounds, Clinical Neuroscience, NINDS June 25, Bethesda, MD	Invited Speaker
	MIND Seminar Series, University of California, Irvine June 13, Irvine, CA	Invited Speaker
	Grand Rounds, Department of Neurology, The University of Chicago May 17, Chicago, IL	Invited Speaker
	Mount Sinai Women's Health Symposium May 8, New York, NY	Invited Speaker

	Targeting ALS Annual Meeting May 7-9, Boston, MA	Invited Speaker
	The Friedman Brain Institute 16th Annual Neuroscience Retreat April 26, New York, NY	Meeting Moderator
	Seminars in Translational and Advanced Research Series, University of Arizona - <i>Postponed</i> April 23, Tucson, AZ	Invited Speaker
	Appel Diversity and Community Initiative Seminar Series, Weill Cornell Medicine April 17, New York, NY	Invited Speaker
	Diverse Vascular Contributions to Cognitive Impairment and Dementia Meeting, hosted by UCDavis April 5, Houston, TX	Invited Participant
	Tau Consortium Global Conference March 24-26, Washington, DC	Invited Speaker
	NIH Clinical Neuroscience Grand Rounds March 19, Bethesda, MD	Invited Speaker
	NIA/NINDS Workshop on Clinically Meaningful Outcomes in AD/ADRD <i>Considerations for use of fluid biomarkers in clinical trials of ADRD</i> March 12-24, Virtual	Invited Participant
	Imagine Solutions Conference March 4, Naples, FL	Invited Speaker
	Neuroscience Research Seminar, Mayo Clinic Jacksonville March 1, Jacksonville, FL	Invited Speaker
	Albert Research Institute for White Matter and Cognition Translational Workshop February 25-28, Tampa, FL	Invited Speaker
	Grand Rounds, Neurology Department, Mount Sinai Health System February 23, New York, NY	Invited Speaker
	Neuroscience Colloquium, Rutgers Newark <i>Modeling vascular contributions to cognitive impairment and dementia with blood proteomics</i> February 21, Newark, NJ	Invited Speaker
	American Heart Association, International Stroke Conference <i>Modeling vascular disease using proteomics and iPSCs</i> February 7-9, Phoenix, AZ	Invited Speaker
2023	Diagnosis and biomarkers in Alzheimer's disease: current scenario and future perspectives, AD/PD Education Webinar <i>Ethnic group disparities in blood-based Amyloid and Tau biomarkers</i> December 19, Virtual	Invited Speaker
	Multiple Sclerosis Fellows Lecture, Icahn School of Medicine at Mount Sinai December 11, New York, NY	Invited Speaker
	New Vision Research Webinar Series	Panelist

<i>Managing Your Lab & Personnel: How to Handle Difficult Conversations</i>	
December 4, Virtual	
Genentech	Invited Speaker
<i>CADASIL-centered modeling of vascular leukoencephalopathy</i>	
October 6, San Francisco, CA	
Altos Labs	Invited Speaker
<i>Modeling vascular aging and dementia from the vantage point of monogenic disease</i>	
October 5, San Francisco, CA	
Key Opinion Leader Panel, Goldman Sachs Alzheimer's Conference	Panelist
October 3, New York, NY	
The Future of Neuroscience Panel, Friedman Brain Institute 15th Anniversary Celebration	Panelist
October 3, New York, NY	
Advances in Alzheimer's Disease from AAIC and CTAD: Disseminating New Evidence to the Global Clinical Community	Invited Faculty
<i>CME Outfitters</i>	
<i>What do the data on new and emerging ATTs mean to clinical practice?</i>	
November, Virtual	
Philanthropic Leadership Council, Friedman Brain Institute	Invited Speaker
September 27, New York, NY	
International Society for Vascular Behavioural and Cognitive Disorders Conference (VasCog)	Invited Debater
<i>VasCog Plenary Session Debate</i>	
September 13-16, Gothenburg, Sweden	
International Society for Vascular Behavioural and Cognitive Disorders Conference (VasCog)	Invited Speaker
September 13-16, Gothenburg, Sweden	
Grand Rounds, Department of Neurology, Columbia University	Invited Speaker
September 8, New York, NY	
Alzheimer's Association International Conference	Session Co-Chair & Speaker
<i>Perspectives Session</i>	
<i>Closing the sex/gender gap in dementia: homing in on the vasculature</i>	
July 16-20, Amsterdam, Netherlands	
Alzheimer's Association International Conference	Invited Speaker
<i>Perspectives Session</i>	
<i>Emerging biomarkers for common co-pathologies</i>	
July 16-20, Amsterdam, Netherlands	
Alzheimer's Association International Conference	Invited Speaker
<i>Early biomarkers of vascular brain dysfunction</i>	
July 16-20, Amsterdam, Netherlands	
Alzheimer's Association International Conference ISTAART Immersives Workshop	Co-Organizer & Co-Chair
<i>Evaluating the human vasculature for VCID</i>	

July 14-15, Amsterdam, Netherlands	
Aspen Ideas Festival <i>New Paths to Treat and Prevent Brain Disease</i> June 25	Panelist
Aspen Ideas Health <i>New Era for Alzheimer's Disease?</i> June 24	Invited Speaker
United Leukodystrophy Foundation Family Conference <i>CADASIL-centered modeling of vascular leukoencephalopathy</i> June 22, 2023, Itasca, IL	Invited Speaker
Alzheimer's Association ISTAART Webinar <i>Genetic entries into VCID pathobiology</i> June 13, Virtual	Invited Speaker
Chan Zuckerberg Initiative (CZI) Neurodegenerative Challenge Network (NDCN) Annual Meeting <i>Patient Partnered Collaboration Project Panel Discussion</i> June 7, San Diego, CA	Panelist
Alzheimer's Disease Research Center Lunch-Talk Series <i>Blood tests for dementia: how use of blood in research is changing diagnosis and care for aging adults</i> May 23, Virtual Meeting	Invited Speaker
Sanders-Brown Center Aging Series - Postponed University of Kentucky May 15, Lexington, KY	Invited Speaker
Aging Conference Series Wake Forest Baptist April 5, Winston-Salem, NC	Invited Speaker
Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART) Webinar <i>Disentangling Alzheimer's disease and vascular cognitive impairment through monogenic disorders</i> February 28, Virtual	Invited Speaker
Sutter Health Neurosciences Grand Rounds February 23, Virtual	Invited Speaker
Icahn School of Medicine at Mount Sinai Medical Scientist Grand Rounds <i>Cell Signaling and Transcriptional Regulation of Microglia in Alzheimer's Disease</i> February 14, New York, NY	Invited Speaker
Mount Sinai New York Community Presentation <i>New tools herald a new era in dementia research & care</i> February 3, Palm Beach Gardens, FL	Invited Speaker
Icahn School of Medicine at Mount Sinai MD/PhD Program - Monthly Speaker Series	Invited Speaker

	January 25, New York, NY	
	Icahn School of Medicine at Mount Sinai	Invited Speaker
	Board of Trustees Research Committee	
	<i>New Tools to End Dementia</i>	
	January 24, New York, NY	
2022	CADASIL Connect Webinar	Invited Speaker
	<i>CADASIL Patient-Partnered Therapeutic Discovery Pipeline</i>	
	November 18, Virtual	
	University of Connecticut, Mentorship Course	Invited Speaker
	Career Trajectory Presentation, MD-PhD program	
	November 17, Virtual	
	Friedman Brain Institute Webinar	Panelist
	<i>"Biomarkers" of Alzheimer's Disease and Related Dementias: How to Establish an Early Diagnosis</i>	
	November 9, Virtual	
	XLVI Annual Congress of the Mexican Academy of Neurology	Keynote Speaker
	<i>Advances in Vascular Dementia: From Research to Practice</i>	
	November 3, León, Mexico	
	Mount Sinai Alzheimer's Disease Research Center	Invited Speaker
	RADAR Accelerator Meeting	
	October 27, New York, NY	
	Neurobiology of Brain Disorders Gordon Research Conference	Discussion Leader
	<i>Biomarkers: Diagnoses and Theranostics</i>	
	August 11, Barcelona, Spain	
	Alzheimer's Association International Conference	Co-Chair & Speaker
	<i>Real world clinical perspective on PDE5i utility in dementia</i>	
	August 2, San Diego, CA	
	Alzheimer's Association International Conference	Poster Presenter
	<i>Sex modifies the association between hippocampal blood flow and episodic memory in cognitively unimpaired individual</i>	
	July 31-August 4, San Diego, CA	
	Alzheimer's Association International Conference	Invited Speaker
	<i>Think Tank: Prevention of Dementia by Treating Vascular and Metabolic Disorders</i>	
	July 29, San Diego, CA	
	Alzheimer's Association International Conference, Microvascular Dysfunction in VCID: From Bench to Bedside	Invited Speaker
	<i>Clinical In Vivo Human Biomarkers</i>	
	July 29, San Diego, CA	
	Tau Consortium	Invited Speaker
	<i>Panel Session: Mechanisms and Models</i>	
	July 18, Irving, TX	
	Buck Institute for Research and Aging	Invited Speaker
	<i>New Tools for In Vivo Studies of Human Vascular Aging & Vascular Neurodegenerative Disease</i>	
	June 17, Novato, CA	
	Grand Rounds, UCSF Memory and Aging Center	Invited Speaker

	June 17, UCSF MAC, San Francisco, CA	
	Albert Research Institute for White Matter and Cognition <i>Endothelial Inflammation and Blood-Brain Barrier Dysfunction in Aging</i> March 28, West Palm Beach, FL	Invited Speaker
	Breaking Bias: Moving Forward in Academic Science, Engineering and Medicine February 11, UCSF MAC, San Francisco, CA	Panelist
	International Stroke Conference (ISC) Symposium <i>MarkVCID Endothelial Inflammation Biomarkers</i> February 7-9, New Orleans, LA	Invited Speaker
	Hacettepe Neuroscience Institute <i>New Tools for Studying Vascular Cognitive Impairment Directly in Humans</i> January 17, Virtual Meeting	Invited Speaker
2021	6th Annual Hillblom Aging Symposium <i>Angiogenesis and Inflammation, Targetable Pathways in VCID</i> October 27, UCSF MAC, Virtual Meeting	Invited Speaker
	International Stroke Conference (ISC) Symposium <i>MarkVCID Biomarkers</i> March 17-19, Virtual Meeting	Invited Speaker
	San Francisco Neurological Society Annual Meeting <i>Cerebral Amyloid Angiopathy</i> March 19-20, Virtual Meeting	Invited Speaker
	Albert Research Institute on White Matter and Cognition March 4, Virtual Meeting	Invited Speaker
	MarkVCID Annual Conference <i>Endothelial inflammation Instrumental Validation Results</i> February 8-9, Virtual Meeting	Invited Speaker
2020	Ace Alzheimer Center Barcelona December 15, Barcelona, Spain	Invited Speaker
	Mexican Academy of Neurology <i>Endothelial Inflammation in VCID</i> November 21, Virtual Meeting	Invited Speaker
	AHA-Allen Brain Initiative Collaborative <i>Immunomodulation to Promote Cerebrovascular and Cognitive Health – a presentation on CADASIL as a model of VCID</i> June 1	Invited Speaker
	UCSF Vascular Neurology-Critical Care Fellowship Didactics <i>CADASIL: Model of Sporadic VCID</i> May 11, UCSF Department of Neurology, San Francisco, CA	Invited Speaker
	MarkVCID Annual Conference March 30-31, <i>Endothelial Inflammation as a Diagnostic Biomarker in VCID</i>	Invited Speaker
	Alzheimer's Disease Research Center External Advisory Board <i>Vascular Biofluid Biomarkers</i> March 2, UCSF, San Francisco, CA	Invited Speaker
2019	Alzheimer's Association International Conference	Invited Speaker

	<i>Vascular Contributions: Adding the “V” to ATN Framework: Plasma Exosome-Based Biomarkers of VCID</i>	
	September 26, Sydney, Australia	
	San Francisco Veterans Affairs	Invited Speaker
	<i>Biomarkers of CNS Disease</i>	
	June 20, San Francisco, CA	
	MarkVCID Annual Conference	Invited Speaker
	<i>Exosomes for Liquid Biopsy in VCID</i>	
	June 17, Charlestown, MA	
	ADC Clinical Core Leaders Meeting	Invited Speaker
	<i>Fluid Biomarkers of Cerebrovascular Disease</i>	
	May 2, Philadelphia, PA	
	F. Hoffman-La Roche	Invited Speaker
	<i>A Biomarker-driven Shift of therapeutic paradigms: Immuno-vascular contributions to neurodegenerative disease</i>	
	April 4, Basel, Switzerland	
	Gladstone Neurological Institute	Invited Speaker
	<i>RIP: Biomarkers of Cerebrovascular Degeneration: A molecular approach to understanding vascular contributions to neurodegenerative disease</i>	
	March 28, Gladstone Institutes, San Francisco, CA	
	Grand Rounds Cedars Sinai Medical Center	Invited Speaker
	<i>A molecular approach to understanding vascular contributions to neurodegenerative disease</i>	
	January 1, Depts. of Neurology and Neurosurgery, Los Angeles, CA	
2018	3rd Annual Hillblom Aging Symposium	Invited Speaker
	<i>In Search of Accuracy in Biomarkers of Cerebral Small Vessel Disease</i>	
	October 17, UCSF MAC, San Francisco, CA	
	Seneca Women, Metropolitan Museum of Art	Invited Panelist
	<i>Fast Forward Women’s Innovation Forum</i>	
	September 29, The Metropolitan Museum of Art, New York, NY	
	Knight ADRC Lecture, University of Washington School of Medicine	Invited Speaker
	<i>Vascular Neurodegenerative Pathways and Biomarkers</i>	
	July 31, UW School of Medicine, Seattle, WA	
	Alzheimer’s Association International Conference	Invited Speaker
	<i>Endothelial-Derived Exosome Biomarkers Suggest Activation of Innate Immunity in Subclinical Cerebrovascular Disease</i>	
	July 20-26, McCormick Place, Chicago, IL	
	International Vascular Biology Meeting	Project Lead & Presenter
	<i>Endothelial-Derived Exosome Biomarkers Suggest Activation of Innate Immunity in Subclinical Cerebrovascular Disease</i>	
	June 3-7, Helsinki, Finland	
	Columbia University Department of Neurology Special Lecture	Invited Speaker
	<i>Fluid Biomarkers in Neurodegenerative Disorders</i>	
	April 30, Columbia University, New York, NY	
	American Academy of Neurology Annual Meeting	Speaker
	<i>Platform Presentation: Novel Biomarkers in Aging & Dementia</i>	

	April 27, Los Angeles, CA	
	American Academy of Neurology Annual Meeting	Speaker
	<i>Data Blitz Presentation: Aging & Dementia Discussion Session</i>	
	April 24, Los Angeles, CA	
	MAC-Pitié-Salpêtrière Inaugural Collaborative Conference	Invited Speaker
	<i>Immuno-vascular contributions to neurodegenerative disorders</i>	
	April 9, San Francisco, CA	
	Special Lecture, CAA Research Center	Invited Speaker
	<i>Fluid Biomarkers of Vascular Cognitive Impairment in Dementia</i>	
	April 5, Mass General Hospital, Boston, MA	
	Special Lecture, Departments of Neurology and Neuroscience	Invited Speaker
	<i>Vascular Neurodegenerative Pathways and Biomarkers</i>	
	March 7, Icahn School of Medicine at Mount Sinai, New York, NY	
	MarkVCID Annual Conference	Invited Speaker
	<i>Markers of Endotheliopathy</i>	
	January 22-23, Los Angeles, CA	
2017	2nd Annual Hillblom Aging Symposium	Invited Speaker
	<i>Non-invasive Biomarkers in Aging and Disease States</i>	
	September 26, UCSF MAC, San Francisco, CA	
	MAC Tuesday Lecture, UCSF	Invited Speaker
	<i>Cerebral Small Vessel Disease: Lessons Learned from Autosomal Dominant Diseases and the Retina</i>	
	March 7, UCSF MAC, San Francisco, CA	
2016	Clinicopathological Case Conference, UCSF MAC Conference	Presenter
	May 10, San Francisco, CA	
	American Academy of Neurology (AAN) Annual Meeting	Poster Co-author
	<i>Differential longitudinal decline of white matter integrity in frontotemporal lobar degeneration and Alzheimer's disease</i>	
	April 19, Vancouver, BC, Canada	
	MAC Tuesday Lecture, UCSF MAC	Invited Speaker
	<i>The KE Family: The Story of an Inherited Speech and Language Disorder</i>	
	January 26, San Francisco, CA	
2014	Grand Rounds, UCLA	Invited Speaker
	<i>VA: Innate Immune Activation and Motor Neuron Disease</i>	
	Los Angeles, CA	
	Neurobehavioral Program Didactics for Fellows and Residents	Speaker
	<i>Categorization and Diagnostic Challenges: CBS, PSP, MSA</i>	
	VA Greater Los Angeles, Los Angeles, CA	
2013	UCLA Collins Day	Poster Presenter
	<i>A case of pediatric chorea-acanthocytosis (ChAC)</i>	
	UCLA, Los Angeles, CA	
	UCLA Collins Day	Poster Presenter
	<i>A case of steroid responsive encephalopathy: probable primary angiitis of the central nervous system</i>	
	UCLA, Los Angeles, CA	

	Neurology Grand Rounds, Olive View Medical Center	Speaker
	<i>Neurology: Primary CNS Angiitis</i> Olive View Medical Center, UCLA, Los Angeles, CA	
2012	Alzheimer's Association International Conference	Speaker
	<i>The epistatic effect of BDNF and APOE polymorphisms on amyloid-β deposition in cognitively normal individuals using PiB-PET imaging,</i> July 14-19, Vancouver, Canada	
2009	39th Annual Meeting of the Society for Neuroscience	Poster Presenter
	<i>Characterization of muscle-specific tyrosine kinase receptor expression in the rat brain</i> October 17-21, Chicago, IL	
2008	Special Lecture, Icahn School of Medicine at Mount Sinai	Invited Speaker
	<i>FOXP2 protein interactome investigated via LC/MS-MS</i> Department of Neuroscience, Icahn School of Medicine at Mount Sinai, New York, NY	
	14th Annual Student Research Day	Project Lead & Presenter
	<i>Molecular mechanisms underlying neuronal MuSK functions and their relationship to memory consolidation</i> Icahn School of Medicine at Mount Sinai, New York, NY	
2006	Harvard Medical School	Invited Speaker
	<i>FOXP Proteins in Neurodevelopment and Language Acquisition</i> Harvard Medical School, Boston, MA	
	36th Annual Meeting of the Society for Neuroscience	Project Lead & Presenter
	<i>The role of FOXP2 dimerization in brain development and language acquisition</i> October 14-18, Atlanta, GA	
	Keystone Symposia	Project Lead & Presenter
	<i>Multi-Protein Complexes Involved in Cell Regulation</i> <i>FOXP2 dimerization regulate its function in transcription</i> August 18-23, Cambridge, United Kingdom	
	Federation of European Neuroscience Societies	Speaker
	<i>Uncovering the impact of FOXP2 protein interactions on brain development and language acquisition</i> July 8-12, Vienna, Austria	
	Federation of European Neuroscience Societies	Project Lead & Presenter
	<i>Uncovering the impact of FOXP2 protein interactions on brain development and language acquisition.</i> July 8-12, Vienna, Austria	
2005	Wellcome Trust Centre for Human Genetics	Speaker
	<i>In Search of Interactions: Yeast-two hybrid Screen centered around FOXP2</i> Oxford University, Oxford, United Kingdom	

CONFERENCE ACTIVITY**Role**

2024	AAIC, Workshop	Co-Organizer
	<i>Neuroimmune interactions and its impact on VCID</i>	
2023	International Society for Vascular Behavioural and Cognitive Disorders Conference (VasCog)	Session Chair
	<i>Inflammation and Other Mechanisms of VCI</i>	

2023	VasCog, Poster Blitz	Session Co-Chair
2023	TargetALS Annual Meeting	Session Moderator
2022	AAIC, Featured Research Symposium <i>Could PDE5 inhibitors benefit dementia?</i>	Organizer & Chair
2021 – 2022	Albert White Matter Research Institute Meeting, Organizing Committee	Member
2021	AAIC, Featured Research Symposium <i>Treating Dementia Through the Vascular Route: Multiple Shots on Goal</i>	Organizer & Chair
2018 – 2022	MAC-Pitié-Salpêtrière Biennial Collaborative Conference	Co-Organizer
2017	Inaugural UCSF MAC - Pitié-Salpêtrière Collaborative Meeting	Co-Organizer

ACADEMIC & PUBLIC SERVICE**Role**

2024 – pres.	PRARP TD-1 panel General Dynamics Information Technology	Scientist Reviewer
2024 – pres.	Alumni & Special Awards Committee ISSMS	Committee Member
2024 – pres.	Data Variables and Data Quality Workgroup National Alzheimer's Coordinating Center (NACC) Biomarker Core Steering Committee	Co-Lead
2023 – pres.	MD-PhD Admissions Committee ISSMS	Committee Member
2023 – pres.	Neuropathology and Brain Bank and Research CoRE Advisory Committee , ISMMS	Member
2022 – pres.	Faculty Search Committee Mount Sinai Center for Transformative Disease Modeling, ISMMS	Member
2022 – pres.	Genomics and Genetics Core Mount Sinai Alzheimer's Disease Research Center	Co-Director
2022 – pres.	Diverse VCID Consortium	Biofluid Biomarkers Project Lead
2022 – pres.	Target ALS	Review Committee Member
2022 – pres.	MarkVCID, Biospecimen Committee	Co-Chair
2021 – pres.	Vascular Cognitive Disorders Professional Interest Area Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment	Chair
2020 – 2022	Biospecimen Committee Division Service, UCSF - MAC	Member
2020	Faculty Search Committee Data Science and Neuroscience, Department of Neurology, UCSF – MAC	Member
2019 – pres.	cureCADASIL	Scientific Advisory Committee Member
2019 – 2022	Department of Neurology Space Committee, UCSF – MAC	Member

2019 – 2021	Vascular Cognitive Disorders Professional Interest Area Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment	Vice Chair
2019	Faculty Search Committee Johan Douglas French Alzheimer's Foundation Endowed Professorship, School of Medicine, UCSF – MAC	Member
2018 – 2022	Immune Activation in CNS Working Group, UCSF MAC	Co-Founder
2018 – 2022	Grant Day Event Division Service, UCSF – MAC	Member
2018 – 2022	UCSF MAC Research and Dissemination Committee	Member
2018 – 2022	Immune Activation in CNS Working Group UCSF – MAC	Co-Founder and Organizer
2016 – 2022	Methods in Neuroimaging Journal Club UCSF – MAC	Co-Founder
2016 – 2022	Curriculum Committee, UCSF Behavioral Neurology Training Fellowship	Member

REVIEWING ACTIVITIES**Role**

2024	Israel Science Foundation	Grant Reviewer
2023	Alzheimer's Association Clinician Scientist Fellowship	Grant Reviewer
2023	University of Utah Center on Aging	External Grant Reviewer
2023	American Academy of Neurology <i>Cerebrovascular Disease and Interventional Neurology</i>	Abstract Reviewer
2023 - pres.	Nature Communications	Reviewer
2023 – pres.	Nature Medicine	Reviewer
2022 – pres.	Alzheimer's & Dementia	Associate Editor
2022 - pres.	Journal of Cerebral Circulation <i>Fluid Biomarkers of VCI</i>	Guest Editor
2022 – pres.	Frontiers in Neurology <i>Dementia and Neurodegenerative Diseases</i>	Associate Editor
2022 – pres.	JAHA	Reviewer
2022	European Research Council	External Grant Reviewer
2021 – pres.	Neurology	Reviewer
2020 – pres.	Brain	Reviewer
2020	Medical Research Council, United Kingdom	Grant Reviewer
2019 – pres.	Nature Reviews Neurology	Reviewer
2019 – pres.	PLoS One	Reviewer
2019 – pres.	Journal of Stroke and Cerebrovascular Disease	Reviewer
2019 – pres.	Brain Imaging and Behavior	Reviewer
2019 – pres.	Human Brain Mapping	Reviewer

2019 – pres.	Journal of Neuroscience	Reviewer
2019 – pres.	Alzheimer's Research United Kingdom	Grant Reviewer
2019 – 2021	Alzheimer's Association International Conference (AAIC)	Abstract Reviewer
2019	Frontiers in Neurology: Lipids in the Brain, Special Issue	Guest Editor
2018 – pres.	Neuroimage Clinical	Reviewer
2018 – pres.	Alzheimer's and Dementia	Reviewer
2018 – pres.	Journal of Alzheimer's Disease	Reviewer
2018 – pres.	Stroke	Reviewer
2018 – pres.	Annals of Neurology	Reviewer
2018 – pres.	Neurobiology of Disease	Reviewer
2017 – pres.	Neurobiology of Aging	Reviewer
2017 – pres.	JAMA Neurology	Reviewer

PROFESSIONAL SOCIETIES & ORGANIZATIONS

Role

2018 – pres.	International Society to Advance Alzheimer's Research and Treatment	Member
2014 – pres.	New York Academy of Sciences	Member
2012 – pres.	American Academy of Neurology	Member
2012 – pres.	American Neurological Association	Junior Member

LECTURES & TEACHING

Role

2024	Innovations in the Treatments for Alzheimer's Disease American Neurological Association	Lecturer
2023 & 2024	Aging and Degeneration Module ISMMS Biomedical Sciences Course for MD/PhD Students	Lecturer
2023	Molecular Phenotyping in Neurodegenerative Disorders ISMMS Neurology Resident Didactic	Lecturer
2023	White Matter Disease/ Leukoencephalopathy ISMMS Neurology Resident Didactic	Lecturer
2023	Frontotemporal Dementias Part 1 ISMMS Neurology Resident Didactic	Lecturer
2023	Frontotemporal Dementias Part 2 ISMMS Neurology Resident Didactic	Lecturer
2020	CADASIL as a Model of Chronic Sporadic VCID to Stroke and Critical Care UCSF	Lecturer
2019	Mini Symposium on Dementia UCSF Medical School	Co-Leader
2019	White matter Degeneration and Cognition UCSF MAC	Lecturer
2018	Brain Movement and Behavior	Group Leader

	UCSF Second Year Medical School Course	
2018 – 2022	White Matter Degeneration and Cognition UCSF Memory and Aging Center	Lecturer
2016 – pres.	Precepting of Medical Students and Residents in Clinic Direct Teaching of Junior Trainees	Teaching
2016 – 2022	Research Coordination and Career Development UCSF MAC	Teaching & Mentorship
2014 – 2015	UCLA Neurology Resident Handbook University of California, Los Angeles	Co-Editor
2014 – 2015	Topics of Neurology UCSF Medical School	Teaching
2012 – 2015	Teaching & Mentorship UCLA Medical School	Teaching
2010	Department of Neurobiology ISMMS	Teaching Assistant
2006	Department of Genetics Oxford University	Teaching Assistant
2002	Department of Biology Columbia University	Laboratory Teaching Assistant

MENTORSHIP

Dates	Name	Position	Mentor Role	Location	Current Position
2023 – pres.	Mariana Lemos Duarte, PhD	Senior Scientist	Primary	ISMMS	-
2023 – pres.	Kayla Elias	Undergraduate Researcher	Primary	ISMMS	-
2023 – 2024	Loyca Jean	Undergraduate Researcher	Primary	ISMMS	-
2023 – pres.	Emma Kornberg	Undergraduate Researcher	Primary	ISMMS	-
2023 – 2024	Lauren Kim	Undergraduate Researcher	Primary	ISMMS	-
2023 – 2023	Jennifer Quisi	Undergraduate Researcher	Primary	ISMMS	-
2023 – pres.	Ruth Axton, BA	CRC	Primary	ISMMS	-
2023 – pres.	Harrison Chan, BA	Research Assistant/ CRC	Primary	ISMMS	-
2023 – pres.	Nikolaos Karvelas, MD	Postdoctoral Scholar	Primary	ISMMS	-
2023 – pres.	Pauline Maciel August, PhD	Postdoctoral Scholar	Primary	ISMMS	-
2022 – pres.	Stephen Fitzsimons, PhD	Postdoctoral Scholar	Primary	ISMMS	-

2022 – 2024	Lisa McDonnell, PhD	Project Scientist/ Lab Manager	Primary	ISMMS	-
2022 – 2024	Ryan Park, BS	Assistant CRC	Primary	UCSF & ISMMS	-
2022 – 2024	Bradley Oh, BS	Research Assistant	Primary	ISMMS	
2022 – pres.	Jonah Keller	Student Volunteer	Primary	Cornell	-
2022 – pres.	Hannah Radabaugh, PhD	Postdoctoral Scholar	Co-Mentor	UCSF	-
2021 – pres.	Scott Treiman, BS	Medical Student	Primary	UCSF	-
2021 – pres.	Connor MacLennan	Undergraduate Researcher	Primary	UCSF & ISMMS	-
2019 – 2024.	Daniel Bennett, BS	Medical Student	Primary	UCSF	-
2019 – pres.	Francisco Martinez, MD	Behavioral Neurologist	Co-Mentor	Mexico	-
2022 –2023	Luana Moury, MD	CRC	Primary	ISMMS	-
2021 – 2022	Krystal Belmonte, PhD	Postdoctoral Scholar	Primary	UCSF	Field Scientist, Mol. Devices
2021 – 2022	Emma Iorio, BS	Lab Manager	Primary	UCSF	Research Sci., Ferguson Lab
2021 – 2022	Yasmine Tabdili, BS	Junior Specialist	Primary	UCSF	-
2021 – 2022	Rafi Hadad, MS	GBHI Fellow	Co-Mentor	UCSF	Behav. Neurol. Israel
2020 – 2022	Bradley Oh, BS	Student Volunteer	Primary	UCSF & UC Berkeley	-
2020 – 2022	Alexandra Saias, BS	Assistant CRC	Primary	UCSF	-
2020 – 2022	Earnest Wang, BS	Student Volunteer	Primary	UCSF & UC Berkeley	MPH Student, Columbia
2020 – 2022	Austin Chou, MD	Postdoctoral Scholar	Co-Mentor	UCSF	Data Scientist, Datarobot
2019 – 2021	Charles Windon, MD	Behavioral Neurology Fellow	Co-Mentor	UCSF	Asst. Prof., UCSF
2019 – 2020	Nicole Fernandes, PhD	Postdoctoral Scholar	Primary	UCSF	Postdoc, GSK

2019 – 2020	Alison Snyder, MD	Behavioral Neurology Fellow	Co-Mentor	UCSF	Postdoc, NIH – Ward Lab
2018 – 2021	Kyan Younes, MD	Behavioral Neurology Fellow	Co-Mentor	UCSF	Asst. Prof., Stanford
2018 – 2020	Nivetha Brathaban, BS	Research Assistant	Primary	UCSF	RA, Nurix Therap.
2018 – 2020	Devyn Cotter, BS	Assistant CRC	Co-Mentor	UCSF	PhD Student, Neuroscienc e, USC
2018 – 2020	Lauren Goldberger	Assistant CRC	Co-Mentor	UCSF	Registered Nurse at U. Washington
2016 – 2018	Marie Altendahl, BS	Assistant CRC	Co-Mentor	UCSF	MD Student, UCLA

PRESS & MEDIA

- 2024 [What role does the brain's vascular system play in neurodegeneration?](#) NeuroCentral, March 6
- 2024 [Unlike. Any. Other. Imagine Solutions conference returns to Naples](#), Florida Weekly, February 15
- 2023 [Mount Sinai Experts See a New Era of Alzheimer's Disease Treatment](#), Mann About Town, November 2
- [New Era for Alzheimer's Disease?](#) Aspen Ideas Health, June 24, *Selected as a Top 10 Conversation of 2023*
- [Interview with Dr Fanny Elahi](#). Target ALS, May 3
- [Catheter treatment for atrial fibrillation may reduce dementia risk](#), Medical News Today, A. Lennon, April 20
- 2022 [Mount Sinai Scientists Awarded Grant from Chan Zuckerberg Initiative to Advance Understanding and Therapeutics for Rare Blood Vessel Disease](#), Mount Sinai, December 1
- [IWD2022 UCSF Women in Science Panel](#), WPSS UCSF Physician Scientists, March 17
- 2021 [Alzheimer's Could Lie in the Eyes of the Holder](#), GEN Edge, May 17
- [The Eyes Are a Window Into Alzheimer's Disease, Suggests New Study](#), Technology Networks, May 17
- [The Eyes Offer a Window into Alzheimer's Disease](#), UC San Francisco., V. Stein, May 13
- [Research Roundup: Explaining Rare Immune Response in Children with COVID-19 and More](#), BioSpace, M. Terry, May 21

- 2020 [Putting a Women's Lens on a "Women's Disease"](#), Here's Something Good Podcast, September 4
- [Dr. Jane Salmon and Dr. Fanny Elahi: Putting a "Women's Lens" on Medicine](#), Seneca's 100 Women to Hear Podcast, September 3
- [Lifestyle Choices Could Slow Familial Frontotemporal Dementia](#), UC San Francisco, N. Weiler, January 1
- 2019 [Understanding White Matter Changes in Aging Brains](#), Better Health While Aging Podcast, February 7
- 2018 [Alzheimer's and Cardiovascular Disease Share Common Genetics in Some Patients](#), UC San Francisco, N. Weiler, November 9

APPENDIX

CLINICAL PRACTICE

As a specialty-trained behavioral neurologist, I perform comprehensive evaluation of patients with cognitive, behavioral, psychiatric, motoric and sensorial changes. The diagnoses include: (1) Frontotemporal dementia syndromes, (2) Alzheimer's disease (typical and atypical), (3) Lewy body dementia syndromes, (4) vascular cognitive impairment and dementia, (5) rapidly progressive dementias, including encephalitis, and prion diseases. I have expertise in interpretation of clinical as well as research grade diagnostics. My research focus is genetic disorders affecting the blood-brain barrier and white matter of the brain. As such I see individuals with white matter changes diagnosed based on brain imaging. Given the therapeutic discovery program we have for CADASIL, I also have a dedicated clinic for individuals affected with CADASIL (Cerebral Autosomal Dominant Arteriopathy. In addition to my clinical responsibilities, I am the director of biomarkers for the Barbara and Maurice Deane Center for Cognitive Health. These biomarker efforts are focused on improving the precision of diagnoses and therefore the delivery of care for patients seen in clinic.

CONTRIBUTIONS TO DIVERSITY

I am committed to increasing diversity in research and academia. Throughout my professional career I have mentored women and minority trainees and plan to continue to do so. As an immigrant woman in neuroscience and medicine, I have experienced first-hand the positive impact of sponsorship and the negative impact of cultural ignorance and discrimination. I am committed to paying forward the invaluable sponsorship and mentorship I have received, without which I would not have been able to contribute to medical sciences. Beyond research in my laboratory, my commitment to medicine and discovery of impactful treatments will also translate into mentorship of the next generation of great minds in medical research. Therapeutic discoveries will require creativity and creativity needs diversity. My five first hires have been minority women from low SES, with great talent and promising careers ahead. One postdoc and technician now have great positions in industry. Every summer, I mentor medical students and seek to provide opportunities to individuals who have not been exposed to the laboratory environment. I have also mentored 3 women clinical fellows who have found faculty positions in academia and 5 women research coordinators who have obtained positions in graduate programs (MD and PhD).

In 2018, I was an invited speaker at the Fast Forward Women's Innovation Forum, Metropolitan Museum of Art, New York City organized by Seneca Women--a global leadership platform centered on the principle that advancing women and girls will fast forward us to a more equitable and prosperous world.

I have volunteered with Virtue Foundation, a non-profit organization with Special Consultative Status to the United Nation with the mission to increase awareness, inspire action and render assistance through healthcare, education and empowerment initiatives. Efforts are geared toward education, healthcare (delivery and training), empowerment of women and minorities and social justice and equity. I have helped plan medical missions and assisted with the organization of conferences and meetings. I will continue to work toward inclusion of women and minorities in healthcare, be it locally or globally.

In summary, I am committed to providing professional opportunities to those from under-represented minorities and lower SES in science and medicine. In my clinical research, I am committed to recruiting a diverse cohort for studies of neurodegenerative disorders.