

CURRICULUM VITAE
Rush University
Rush Medical College

Kumar B. Rajan, PhD

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Positions

2024 – The John & Alice Sabl Endowed Chair of Alzheimer’s Disease & Neurological Sciences
2020 – Professor, Department of Internal Medicine, Rush University
2020 – Director of Rush Institute for Healthy Aging, Rush University
2020 – Division Chief of Community Epidemiology, Department of Internal Medicine, Rush University
2020 – Adjunct Professor, Department of Neurology, University of California, Davis
2018 – Graduate Groups – Epidemiology, Public Health, and Biostatistics, University of California, Davis

Personal Data

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Education

1995 BSc, Economics, Madras Christian College, India
1997 MSc, Statistics, Madras Christian College, India
2000 MS, Applied Statistics & Operations Research, Bowling Green State University, Ohio
2005 MS, Biostatistics, School of Public Health, University of Washington, Seattle
2008 PhD, Biostatistics, School of Public Health, University of Washington, Seattle

Academic Training

2012 Genetic Epidemiology, Broad Institute of MIT & Harvard, Cambridge, MA
2013 Design & Analysis of Genomic Studies, Wellcome Trust Sanger Institute, Cambridge, UK

Previous Professional Experience

2018–2020 Professor, Department of Public Health Sciences, University of California, Davis, CA
2014–2017 Associate Professor, Department of Internal Medicine, Rush University, Chicago, IL
2012–2017 Director, Biostatistics & Bioinformatics, Rush Mentoring Program, Chicago, IL
2009–2014 Assistant Professor, Department of Internal Medicine, Rush University, Chicago, IL
2011–2012 Adjunct Assistant Professor, University of Illinois at Chicago, Chicago, IL
2000–2008 Research Associate, Fred Hutchinson Cancer Research Center, Seattle, WA

1999-2000 Teaching Assistant & Instructor, Bowling Green State University, OH
 1997-1999 Technical Engineer, Middle East Region, Schlumberger Oil Services Ltd, Sugar Land, TX

PEER-REVIEWED PUBLICATIONS

1. Zhou S, Conston J, Suthprasertporn N, Denis-Romero R, Lucente JD, White JL, Mielke MM, Harvey D, **Rajan KB**, Johnson DK, Fornage M, DeCarli C, Hinman JD, Jin LW; DVCID Study Investigators. Harmonizing biofluid specimen collection and biomarker quantification in Diverse Vascular Contributions to Cognitive Impairment and Dementia (DVCID) study. *Alzheimers Dement (Amst)*. 2026 Aug 17;18(3):e70435. doi: 10.1002/dad2.70435. PMID: 42614671; PMCID: PMC13482173.
2. Hutten CG, Beck T, Evans D, **Rajan KB**. The role of polygenic risk in Alzheimer's disease prediction for African Americans. *Alzheimers Dement*. 2026 Aug;22(8):e71712. doi: 10.1002/alz.71712. PMID: 42552753; PMCID: PMC13438189.
3. Ng TKS, Beck T, Sudhini Y, Wilson RS, Evans DA, **Rajan KB**. Salivary Cortisol and Cognitive Decline and Alzheimer Disease in Older Adults. *JAMA Netw Open*. 2026 Jul 1;9(7):e2622955. doi: 10.1001/jamanetworkopen.2026.22955. PMID: 42455572; PMCID: PMC13373666.
4. Sanderson-Cimino M, Gross AL, Gaynor LS, Paolillo EW, Saloner R, Albert MS, Apostolova LG, Boersema B, Boxer AL, Boeve BF, Casaletto KB, Heuer HW, Forsberg LK, Hallgarth SR, Diaz VE, Clark LR, Eloyan A, Farias ST, Maillard P, Gonzales MM, Hammers DB, La Joie R, Cobigo Y, Wolf A, Hampstead BM, Mechanic-Hamilton D, Miller BL, Rabinovici GD, Ringman JM, D'Orazio LM, Rosen HJ, Ryman SG, Prestopnik JL, Salmon DP, Smith GE, DeCarli C, **Rajan KB**, Jin LW, Hinman JD, Johnson DK, Harvey DJ, Fornage M, Carrillo MC, Dickerson BC, Kramer JH, Staffaroni AM; ALLFTD consortium, MarkVCID study, LEADS consortium, and Diverse Vascular Contributions to Cognitive Impairment and Dementia (Diverse VCID) Study Investigators. Development and validation of a harmonized memory score for multicenter Alzheimer's disease and related dementia research. *Alzheimers Res Ther*. 2026 Jun 15. doi: 10.1186/s13195-026-02100-w. Epub ahead of print. PMID: 42298651.
5. Desai P, Ng TKS, Krueger KR, Wilson RS, Evans DA, **Rajan KB**. Social network size and cognitive decline in older adults experiencing depressive symptoms and loneliness. *Aging Ment Health*. 2026 Feb;30(2):377-384. doi: 10.1080/13607863.2025.2566292. Epub 2025 Oct 9. PMID: 41064990.
6. Dhana A, DeCarli CS, Dhana K, Desai P, Krueger K, Dennis K, Ng TKS, Evans D, **Rajan KB**. Impact of kidney function on biomarkers of neurodegeneration, white matter hyperintensities, and cognition in older adults. *Alzheimers Dement*. 2025 Oct;21(10):e70397. doi: 10.1002/alz.70397. PMID: 41085221.
7. Dhana K, Aggarwal NT, Voigt RM, Ventrelle J, **Rajan KB**, Kaddurah-Daouk R, Marcovina SM, Liu X, Agarwal P, Tangney C, Arfanakis K, Sacks FM, Barnes LL. Effect of weight loss through dietary interventions on cardiometabolic health in older adults. *Int J Obes (Lond)*. 2025 Oct 3. doi: 10.1038/s41366-025-01902-6. Epub ahead of print. PMID: 41044190.
8. Liu X, Sacks FM, Beck T, Tangney CC, Willett WC, Yassine H, Dhana K, Aggarwal NT, **Rajan KB**, Barnes LL. APOE-ε4-Dependent Associations between Carotenoids and Cognitive Decline: Findings from the MIND Randomized Controlled Trial. *Am J Clin Nutr*. 2025 Aug 26:S0002-9165(25)00469-1. doi: 10.1016/j.ajcnut.2025.08.012. Epub ahead of print. PMID: 40876538.

9. Andrews RM, Grady ST, Aggarwal NT, Beck TL, Dhana K, Evans D, Maillard P, Rothbard S, Stuart EA, Szpiro AA, Virkar S, Adar SD, DeCarli CS, Kaufman JD, **Rajan KB**, Weuve J. Association of tailpipe-related and nontailpipe-related air pollution exposure with neuroimaging outcomes. *Environ Epidemiol*. 2025 Aug 26;9(5):e413. doi: 10.1097/EE9.0000000000000413. PMID: 40881066; PMCID: PMC12384963.
10. Desai P, Ng TKS, Krueger KR, Wilson RS, Evans DA, **Rajan KB**. Social Engagement, Depressive Symptoms, and Loneliness, and Longitudinal Cognitive Decline in a Population-Based Cohort of Older Adults. *Am J Geriatr Psychiatry Open Sci Educ Pract*. 2025 Jun;6:39-48. doi: 10.1016/j.osep.2025.02.004. Epub 2025 Mar 28. PMID: 40575494; PMCID: PMC12199416.
11. Chen H, Ding Y, Dhana K, Agarwal P, Beck T, **Rajan KB**, Melo van Lent D, Ma Y, Zong G, Bjornevik K, Yuan C. Sweetened Beverages and Incident All-Cause Dementia Among Older Adults. *JAMA Psychiatry*. 2025 Jun 18:e251230. doi: 10.1001/jamapsychiatry.2025.1230. Epub ahead of print. PMID: 40531522; PMCID: PMC12177730.
12. Ng TKS, Beck T, Boyle P, Dhana K, Desai P, Evans DA, **Rajan KB**. APOE4, Blood Neurodegenerative Biomarkers, and Cognitive Decline in Community-Dwelling Older Adults. *JAMA Netw Open*. 2025 May 1;8(5):e258903. doi: 10.1001/jamanetworkopen.2025.8903. PMID: 40332937; PMCID: PMC12059971.
13. Sanderson-Cimino M, Gross AL, Gaynor LS, Paolillo EW, Saloner R, Albert MS, Apostolova FG, Boersema B, Boxer AL, Boeve BF, Casaletto KB, Hallgarth SR, Diaz VE, Clark LR, Maillard P, Eloyan A, Farias ST, Gonzales MM, Hammers DB, Joie R, Cobigo Y, Wolf A, Hampstead BM, Mechanic-Hamilton D, Miller BL, Rabinovici GD, Ringman JM, Rosen HJ, Ryman SG, Prestopnik JL, Salmon DP, Smith GE, DeCarli C, **Rajan KB**, Jin LW, Hinman J, Johnson DK, Harvey D, Fornage M, Kramer JH, Staffaroni AM. Development and validation of a harmonized memory score for multicenter Alzheimer's disease and related dementia research. *Alzheimer Dementia*, 2025. PMID: 40236433; PMCID: PMC11998833.
14. Ng TKS, Beck T, Liu X, Desai P, Holland T, Dhana K, Krueger K, Wilson RS, Evans DA, **Rajan KB**. Longitudinal associations between lipid panel and cognitive decline modified by APOE 4 carrier status in biracial community-dwelling older adults: Findings from the Chicago health and aging project. *Arch Gerontol Geriatr*. 2025 Mar 18;134:105825. doi: 10.1016/j.archger.2025.105825. Epub ahead of print. PMID: 40179541.
15. Desai P, Bond J, Dhana A, Ng TKS, Krueger KR, Dhana K, Liu X, Evans DA, **Rajan KB**. The Social Vulnerability Index and Incidence of Alzheimer's Disease in a Population-Based Sample of Older Adults. *Neurology*. 2025 Apr 22;104(8):e213464. doi: 10.1212/WNL.00000000000213464. Epub 2025 Mar 26. PMID: 40138617.
 - a. **Editorial Commentary:** Paretsky MS. The Impact of Social Vulnerability on Cognitive Decline and Incident Alzheimer's Disease. *Neurology*. 2025 April 22;104(8). <https://doi.org/10.1212/WNL.00000000000213582>.
16. Dhana A, DeCarli CS, Dhana K, Desai P, Ng TKS, Evans DA, **Rajan KB**. Cardiovascular Health and Biomarkers of Neurodegenerative Disease in Older Adults. *JAMA Netw Open*. 2025 Mar 3;8(3):e250527. doi: 10.1001/jamanetworkopen.2025.0527. PMID: 40067299.
17. Liu X, Akhtar US, Beck T, Dennis K, Evans DA, **Rajan KB**. Hearing loss, diet, and cognitive decline: interconnections for dementia prevention. *J Prev Alzheimers Dis*. 2025 Mar;12(3):100052. doi: 10.1016/j.tjpad.2024.100052. Epub 2025 Jan 3. PMID: 40015758.

18. Ng TKS, Beck T, Dennis KR, Desai P, Krueger K, Dhana K, Wilson RS, Evans DA, **Rajan KB**. Social isolation, loneliness, and their joint effects on cognitive decline and incident Alzheimer's disease: Findings from the Chicago health and aging project. *J Prev Alzheimers Dis*. 2025 Mar;12(3):100046. doi: 10.1016/j.tjpad.2024.100046. Epub 2025 Jan 1. PMID: 40015756.
19. Krueger KR, Desai P, Beck T, Barnes LL, Bond J, DeCarli C, Aggarwal NT, Evans DA, **Rajan KB**. Lifetime Socioeconomic Status, Cognitive Decline, and Brain Characteristics. *JAMA Netw Open*. 2025 Feb 3;8(2):e2461208. doi: 10.1001/jamanetworkopen.2024.61208. PMID: 39982722.
20. Hayes-Larson E, Andrews RM, Kezios KL, Bercu A, Rouanet A, Helmer C, Crane PK, Gibbons L, Klinedinst BS, McEvoy LK, Nichols E, Weuve J, **Rajan KB**, Hwang PH, Mez J, Farina M, Shaw C, Sims KD, Therneau T, Petersen RC, Bouteloup V, Gross A, Albert M, Morris JC, Masters CL, Resnick SM, Maruff P, Manly JJ, Turney I, Vonk JMJ, Avila-Rieger J, Weigand A, Chen R, Wang J, Proust-Lima C, Mayeda ER. Approaches to timescale choice in cognitive aging research and potential implications for estimated exposure effects: coordinated analyses in ten cohorts of older adults. *Epidemiology*. 2025 Mar 31. doi: 10.1097/EDE.0000000000001859. Epub ahead of print. PMID: 40164562.
21. Dhana A, DeCarli CS, Dhana K, Desai P, Evans DA, **Rajan KB**. Blood Pressure Variability and Cognition in Black and White Older Adults Over 18 Years of Follow-up: A Population-Based Cohort Study. *Neurology*. 2025 Jan 14;104(1):e210151. doi: 10.1212/WNL.000000000000210151. Epub 2024 Dec 11. PMID: 39661919; PMCID: PMC11637574.
22. Ng TKS, Udeh-Momoh C, Lim MA, Gleerup HS, Leifert W, Ajalo C, Ashton N, Zetterberg H, Rissman RA, Winston CN, O' Bryant S, Jenkins R, Carro E, Orive G, Tamburin S, Olvera-Rojas M, Solis-Urra P, Esteban-Cornejo I, Santos GAAD, **Rajan KB**, Koh D, Simonsen AH, Slowey PD; Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment: Biofluid Based Biomarkers Professional Interest Area Salivary Biomarkers for Dementia Research Working Group (ISTAART-BBB-PIA-SWG). Guidelines for the standardization of pre-analytical variables for salivary biomarker studies in Alzheimer's disease research: An updated review and consensus of the Salivary Biomarkers for Dementia Research Working Group. *Alzheimers Dement*. 2025 Feb;21(2):e14420. doi: 10.1002/alz.14420. Epub 2024 Dec 30. PMID: 39737743; PMCID: PMC11848381.
23. Andrews RM, Adar SD, Szpiro AA, Kaufman JD, Christopher CN, Beck TL, Dhana K, Wilson RS, **Rajan KB**, Evans D, Weuve J. Association of Tailpipe-Related and Nontailpipe-Related Air Pollution Exposure with Cognitive Decline in the Chicago Health and Aging Project. *Environ Health Perspect*. 2024 Dec;132(12):127002. doi: 10.1289/EHP14585. Epub 2024 Dec 6. PMID: 39641998; PMCID: PMC11623384.
24. Dhana A, DeCarli CS, Dhana K, Desai P, Krueger K, Evans DA, **Rajan KB**. Association of subjective memory complaints with serum biomarkers of neurodegeneration and cognition: A population-based study. *J Am Geriatr Soc*. 2025 Mar;73(3):859-866. doi: 10.1111/jgs.19300. Epub 2024 Dec 3. PMID: 39625703; PMCID: PMC11908938.
25. DeCarli C, **Rajan KB**, Jin LW, Hinman J, Johnson DK, Harvey D, Fornage M; Diverse VCID Study Investigators. WMH Contributions to Cognitive Impairment: Rationale and Design of the Diverse VCID Study. *Stroke*. 2025 Mar;56(3):758-776. doi: 10.1161/STROKEAHA.124.045903. Epub 2024 Nov 15. PMID: 39545328; PMCID: PMC11850211.
26. Ng TKS, Beck T, Desai P, Dhana K, Wilson RS, Evans DA, **Rajan KB**. Prospective associations of interleukin-6 and APOE allele with cognitive decline in biracial community-dwelling older adults:

- The Chicago Health and Aging Project (CHAP). *Alzheimers Dement (Amst)*. 2024 Oct 21;16(4):e70002. doi: 10.1002/dad2.70002. PMID: 39435276; PMCID: PMC11492147.
27. Dhana K, Barnes LL, Beck T, Dhana A, Liu X, Desai P, Ng TKS, Evans DA, **Rajan KB**. External validation of dementia prediction models in Black or African American and White older adults: A longitudinal population-based study in the United States. *Alzheimers Dement*. 2024 Oct 12. doi: 10.1002/alz.14280. Epub ahead of print. PMID: 39394865.
 28. Agarwal P, Barnes LL, Dhana K, Liu X, Zhang Y, Beck T, Cornelis MC, Tangney C, **Rajan KB**. Association of MIND diet with cognitive decline among Black and White older adults. *Alzheimers Dement*. 2024 Oct 16. doi: 10.1002/alz.14277. Epub ahead of print. PMID: 39410855.
 29. Desai P, Ng TKS, Krueger KR, Wilson RS, Evans DA, **Rajan KB**. Perceived Stress, Blood Biomarkers, and Cognitive Functioning in Older Adults. *Psychosom Med*. 2024 Apr 16. doi: 10.1097/PSY.0000000000001317. Epub ahead of print. PMID: 38648023.
 30. Liu X, Beck T, Dhana K, Tangney CC, Desai P, Krueger K, Evans DA, **Rajan KB**. Dietary fats and the APOE-e4 risk allele in relation to cognitive decline: a longitudinal investigation in a biracial population sample. *J Nutr Health Aging*. 2024 Mar 19;28(5):100211. doi: 10.1016/j.jnha.2024.100211. Epub ahead of print. PMID: 38507884.
 31. **Rajan KB**, McAninch EA, Wilson RS, Dhana A, Evans-Lacko S, Evans DA. Statin Initiation and Risk of Incident Alzheimer Disease and Cognitive Decline in Genetically Susceptible Older Adults. *Neurology*. 2024 Apr 9;102(7):e209168. doi: 10.1212/WNL.00000000000209168. Epub 2024 Mar 6. PMID: 38447103.
 - a. Rajan KB and Evans DA. Author's Reply on Statin Initiation and ADRD. *Neurology*, 2025.
 32. Dhana K, Agarwal P, James BD, Leurgans SE, **Rajan KB**, Aggarwal NT, Barnes LL, Bennett DA, Schneider JA. Healthy Lifestyle and Cognition in Older Adults With Common Neuropathologies of Dementia. *JAMA Neurol*. 2024 Feb 5:e235491. doi: 10.1001/jamaneurol.2023.5491. Epub ahead of print. PMID: 38315471; PMCID: PMC10845037.
 33. Desai P, Krueger KR, Mendes de Leon C, Wilson RS, Evans DA, **Rajan KB**. Depressive Symptoms, Glial Fibrillary Acid Protein Concentrations, and Cognitive Decline in a Cohort Study. *J Gerontol A Biol Sci Med Sci*. 2024 Feb 1;79(2):glad129. doi: 10.1093/gerona/glad129. PMID: 37209409; PMCID: PMC10799753.
 34. Desai P, Halloway S, Krueger KR, **Rajan KB**, Evans DA. Temporal Patterns of Change in Physical and Cognitive Performance. *J Gerontol A Biol Sci Med Sci*. 2024 Mar 1;79(3):glad274. doi: 10.1093/gerona/glad274. PMID: 38071669; PMCID: PMC10878249.
 35. Liu X, Beck T, Dhana K, Desai P, Krueger KR, Tangney CC, Holland TM, Agarwal P, Evans DA, **Rajan KB**. Association of Whole-Grain Consumption and Cognitive Decline: An Investigation from a Community-Based Biracial Cohort of Older Adults. *Neurology*. 2023 Nov 22;102(23):e209168. doi: 10.1212/WNL.00000000000209168. Epub ahead of print. [PMID: 37993270].
 - a. **Press Release:** Adding a Few Servings of Whole Grains May Slow Memory Decline in African Americans. American Academy of Neurology. *Neurology Journal*.
 - b. **Media Report:** Cuevas E. Whole grains linked to slower cognitive decline among elderly Black people in a new study. *USA Today*, November 22, 2023.

<https://www.usatoday.com/story/news/health/2023/11/22/whole-grains-dementia-alzheimers-study/71635561007/>

36. Liu X, Finno CJ, Beck T, Dhana K, Tangney C, Desai P, Krueger K, Evans DA, **Rajan KB**. Association of Vitamin E and Cognitive Decline in Older Adults with and without the APOE ϵ 4 Allele: A Biracial Population-Based Community Study. *J Alzheimers Dis*. 2023;96(3):1129-1138. doi: 10.3233/JAD-230797. [PMID: 37955092].
37. Desai P, Beck T, Krueger KR, Wilson RS, Evans DA, **Rajan KB**. Neuroticism, physical activity, and cognitive functioning in a population-based cohort of older adults. *BMC Geriatr*. 2023 Nov 6;23(1):717. doi: 10.1186/s12877-023-04399-8. [PMID: 37926833; PMCID: PMC10626783].
38. Halloway S, Evans DA, Desai P, Dhana K, Beck T, Rajan KB. Serum total tau, neurofilament light, and glial fibrillary acidic protein are associated with mortality in a population study. *J Am Geriatr Soc*. 2024 Jan;72(1):149-159. doi: 10.1111/jgs.18632. Epub 2023 Oct 11. PMID: 37818793; PMCID: PMC10842309.
39. Agarwal P, Ford CN, Leurgans SE, Beck T, Desai P, Dhana K, Evans DA, Halloway S, Holland TM, Krueger KR, Liu X, **Rajan KB**, Bennett DA. Dietary sugar intake associated with a higher risk of dementia in community dwelling older adults. *J Alzheimers Dis*. 2023. Sep 2. Doi: 10.3233/JAD-230013. [PMID: 37694364].
40. Dhana K, Beck T, Desai P, Wilson RS, Evans DA, **Rajan KB**. Prevalence of Alzheimer's disease dementia in the 50 US states and 3142 counties: A population estimate using the 2020 bridged-race postcensal from the National Center for Health Statistics. *Alzheimers Dement*. 2023 Oct;19(10):4388-4395. doi: 10.1002/alz.13081. Epub 2023 Jul 17. [PMID: 37458371; PMCID: PMC10593099].
 - a. **Media Report:** CNN, LA Times, Boston Globe, Dallas News, Miami Herald, Alzheimer's Association press release, and many more.
41. Dhana A, DeCarli CS, Dhana K, Desai P, Holland TM, Evans DA, **Rajan KB**. Cardiovascular health and cognitive outcomes: Findings from a biracial population-based study in the United States. *Alzheimers Dement*. 2023 Oct;19(10):4446-4453. doi: 10.1002/alz.13421. Epub 2023 Aug 3. [PMID: 37534894; PMCID: PMC10592212].
42. Krueger KR, Desai P, Beck T, Wilson RS, Evans D, **Rajan KB**. Cognitive Activity is Associated with Cognitive Function Over Time in a Diverse Group of Older Adults, Independent of Baseline Biomarkers. *Neuroepidemiology*. 2023 Jun 1. doi: 10.1159/000531208. Epub ahead of print. [PMID: 37263261].
43. Desai P, Krueger KR, Mendes de Leon C, Wilson RS, Evans DA, **Rajan KB**. Depressive Symptoms, Glial Fibrillary Acid Protein Concentrations, and Cognitive Decline in a Cohort Study. *J Gerontol A Biol Sci Med Sci*. 2023 May 20;glad129. doi: 10.1093/gerona/glad129. Epub ahead of print. [PMID: 37209409].
44. Dhana A, DeCarli C, Aggarwal NT, Dhana K, Desai P, Evans DA, **Rajan KB**. Serum neurofilament light chain, brain infarcts, and the risk of stroke: a prospective population-based cohort study. *Eur J Epidemiol*. 2023 Apr;38(4):427-434. doi: 10.1007/s10654-023-00978-6. Epub 2023 Mar 3. [PMID: 36867286; PMCID: PMC10081967].
45. Desai P, Krueger KR, de Leon CM, Wilson RS, Evans DA, **Rajan KB**. Race and Apolipoprotein E-e4 Allele Status Differences in the Association Between Loneliness and Cognitive Decline. *Psychosom*

- Med. 2023 Apr 1;85(3):231-237. doi: 10.1097/PSY.0000000000001168. Epub 2023 Jan 8. [PMID: 36626598; PMCID: PMC10073257].
46. Dhana A, DeCarli C, Dhana K, Desai P, Wilson RS, Evans DA, **Rajan KB**. White matter hyperintensity, neurofilament light chain, and cognitive decline. *Ann Clin Transl Neurol*. 2023 Mar;10(3):321-327. doi: 10.1002/acn3.51720. Epub 2022 Dec 21. [PMID: 36542548; PMCID: PMC10014007].
 47. Holland TM, Agarwal P, Wang Y, Dhana K, Leurgans SE, Shea K, Booth SL, **Rajan KB**, Schneider JA, Barnes LL. Association of Dietary Intake of Flavanols With Changes in Global Cognition and Several Cognitive Abilities. *Neurology*. 2023 Feb 14;100(7):e694-e702. doi: 10.1212/WNL.0000000000201541. Epub 2022 Nov 22. [PMID: 36414424; PMCID: PMC9969915].
 48. **Rajan KB**, McAninch EA, Aggarwal NT, Barnes LL, Wilson RS, Weuve J, DeCarli CS, Evans DA. Longitudinal Changes in Blood Biomarkers of Clinical Alzheimer Disease in a Biracial Population Sample. *Neurology*. 2023 Feb 21;100(8):e874-e883. doi: 10.1212/WNL.0000000000201289. Epub 2022 Nov 29. [PMID: 36446595; PMCID: PMC9984218].
 49. Dhana K, Aggarwal NT, Beck T, Holland TM, Dhana A, Cherian LJ, Desai P, Evans DA, Rajan KB. Lifestyle and Cognitive Decline in Community-Dwelling Stroke Survivors. *J Alzheimers Dis*. 2022 Aug 1. doi: 10.3233/JAD-220305. Epub ahead of print. [PMID: 35938251].
 50. Liu X, Dhana K, Barnes LL, Tangney CC, Agarwal P, Aggarwal N, Holland TM, Beck T, Evans DA, **Rajan KB**. A healthy plant-based diet was associated with slower cognitive decline in African American older adults: a biracial community-based cohort. *Am J Clin Nutr*. 2022 Oct 6;116(4):875-886. doi: 10.1093/ajcn/nqac204. [PMID: 35906190; PMCID: PMC9535523].
 51. Vu THT, Beck T, Bennett DA, Schneider JA, Hayden KM, Shadyab AH, **Rajan KB**, Morris MC, Cornelis MC. Adherence to MIND Diet, Genetic Susceptibility, and Incident Dementia in Three US Cohorts. *Nutrients*. 2022 Jul 3;14(13):2759. doi: 10.3390/nu14132759. [PMID: 35807939; PMCID: PMC9268772].
 52. Dhana K, Barnes LL, Agarwal P, Liu X, Dhana A, Desai P, Aggarwal N, Evans DA, **Rajan KB**. Vitamin D intake and cognitive decline in Blacks and Whites: The role of diet and supplements. *Alzheimers Dement*. 2023 Apr;19(4):1135-1142. doi: 10.1002/alz.12729. Epub 2022 Jul 22. [PMID: 35867354; PMCID: PMC9867781].
 53. Desai P, Dhana K, DeCarli C, Wilson RS, McAninch EA, Evans DA, **Rajan KB**. Examination of Neurofilament Light Chain Serum Concentrations, Physical Activity, and Cognitive Decline in Older Adults. *JAMA Netw Open*. 2022 Mar 1;5(3):e223596. doi: 10.1001/jamanetworkopen.2022.3596. [PMID: 35315915].
 54. Dhana K, Barnes LL, Liu X, Agarwal P, Desai P, Krueger KR, Holland TM, Halloway S, Aggarwal NT, Evans DA, **Rajan KB**. Genetic risk, adherence to a healthy lifestyle, and cognitive decline in African Americans and European Americans. *Alzheimers Dement*. 2022 Apr;18(4):572-580. doi: 10.1002/alz.12435. Epub 2021 Jul 26. [PMID: 34310036; PMCID: PMC8789942].
 55. Halloway S, Desai P, Beck T, Aggarwal N, Agarwal P, Evans D, **Rajan KB**. Association of Neurofilament Light With the Development and Severity of Parkinson Disease. *Neurology*. 2022 Apr 13;102(16):e200338. doi: 10.1212/WNL.0000000000200338. Epub ahead of print. [PMID: 35418452].
 56. Pa J, Aslanyan V, Casaletto KB, Renteria MA, Harrati A, Tom SE, Armstrong N, **Rajan KB**, Avila-Rieger J, Gu Y, Schupf N, Manly JJ, Brickman A, Zahodne L. Effects of Sex, APOE4, and Lifestyle

- Activities on Cognitive Reserve in Older Adults. *Neurology*. 2022 Jul 20;10.1212/WNL.0000000000200675. doi: 10.1212/WNL.0000000000200675. Epub ahead of print. [PMID: 35858818].
57. Dhana K, Franco OH, Ritz EM, Ford CN, Desai P, Krueger KR, Holland TM, Dhana A, Liu X, Aggarwal NT, Evans DA, **Rajan KB**. Healthy lifestyle and life expectancy with and without Alzheimer's dementia: population-based cohort study. *BMJ*. 2022 Apr 13;377:e068390. doi: 10.1136/bmj-2021-068390. [PMID: 35418416].
 58. Dhana A, DeCarli C, Dhana K, Desai P, Krueger K, Evans DA, **Rajan KB**. Association of Subjective Memory Complaints With White Matter Hyperintensities and Cognitive Decline Among Older Adults in Chicago, Illinois. *JAMA Netw Open*. 2022 Apr 1;5(4):e227512. doi: 10.1001/jamanetworkopen.2022.7512. [PMID: 35426922].
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 - b. Press Release: Arehart-Treichel. Depression, Gene Variant Combine to Affect Cognitive Decline. *Psychiatric News*. <http://psychnews.psychiatryonline.org/newsarticle.aspx?articleid=1863901>
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HONORS AND AWARDS

- 2024 John & Alice Sabl Chair of Alzheimer's Disease and Neurological Sciences, 2024
- 2022 Denis A. Evans, MD, Lectureship Award, Rush University, 2022
- 2020 Ranked 26th in NIH funding for Public Health PIs, Blue Ridge Institute for Medical Research
- 2019 Ranked 29th in NIH funding for Public Health PIs, Blue Ridge Institute for Medical Research
- 2019 Well-Funded Investigator (WFI), National Institutes of Health (NIH)
- 2008 Runner-up, Best Student Presentation, International Biometric Society
- 2008 Runner-up, Best Student Paper, International Biometric Society
- 2006 Best Student Poster Award, School of Public Health, University of Washington
- 2004 Meritorious Student Paper, Society for Behavioral Medicine
- 1997 Class Topper, Natarajan's Prize for Academic Performance, Madras Christian College
- 1996 Class Topper, Special Prize for Statistics, Madras Christian College
- 1995 Class Topper, Sarathy's Scholarship for Academic Performance, Madras Christian College

EXTRAMURAL FUNDING

Current

1. Preserving cognitive resilience: A midlife parent-offspring study. NIH grant, R01AG058679 (Rajan), *Contact Principal Investigator*, 2019-2026 (\$11 million, 30% FTE).
2. A population-based Latino study of older adults. NIH grant, UH3AG083289 (Rajan), *Contact Principal Investigator*, 2023-2028 (\$4.5 million, 20-25% FTE).
3. Impact of neuroinflammation on AD occurrence: An intergenerational population study. NIH grant, R01AG073627 (Rajan), *Contact Principal Investigator*, 2021-2027 (\$15 million, 25-30% FTE).

4. Genetics of cerebral small vessel disease in multi-ethnic cohorts. Core Leader: UC Davis Alzheimer's Disease Center (\$4 million, PI: DeCarli, U19NS120384, 15% FTE), *Rush Principal Investigator*, 2020-2027.
5. A Pharmacoepidemiologic Study of Proton Pump Inhibitors and Alzheimer's Disease Risk. NIH grant, R21AG09887(PI: Dhana, 5% FTE), 2026-2029.
6. A 16-Week Randomized Controlled Trial of Peanut Consumption and Biomarkers of Brain Health in Older Adults. Peanut Association (PI: Lui, 0% FTE), Co-investigator, 2026-2029.
7. When are blood-based biomarkers informative in multimorbidity? Alzheimer's Association Research Grant (PI: Ng, 5% FTE), Co-investigator, 2026-2029.
8. Stress and cognitive aging across the life course. NIH grant, R01AG100025 (PI: Ng, 5% FTE), Co-investigator, 2026-2031.

Under Review

9. Structural and biological pathways of ADRD in older rural communities. NIH grant, R01AG081623 (Rajan), *Principal Investigator*, 2027-2032 (\$13 million, 30% FTE). Under Review, June 2026.
10. A Sequential, Risk-Adapted Whole-Person Lifestyle Intervention to Reduce Hospitalizations, Falls, and Cognitive Decline among Medicare Fee-for-Service. Center for Medical Services grant (Rajan). *Principal Investigator*, 2026-2029 (\$3.3 million, 20% FTE). Under Review, May 2026.

Upcoming

11. Need-Based, AI-Personalized Multidomain Alzheimer's Risk Reduction Randomized Clinical Trial. NIH grant, R01AGXXXXX (Rajan), Contact Principal Investigator, 2027-2032 (\$35 million, 30% FTE). October 2026.
12. Life-Course Determinants of Accelerated Cognitive Decline and Superaging. NIH grant, R01AGXXXXX (Rajan), Contact Principal Investigator, 2027-2032 (\$4 million, 20% FTE).

Past

1. Air pollution and noise exposures in relation to dementia: from biomarkers of brain aging to clinical disease. NIH grant R01AG065359 (\$1M, R01AG065359, PI: Wueve, 10% FTE), Rush Principal Investigator, 2020-2026.
2. Genetic modifiers of the Mediterranean-DASH diet intervention for neurodegenerative delay response (R01AG082714, PI: Cornelius, 10% FTE), *Co-investigator*, 2020-2025.
3. Lifestyle factors and life expectancy with and without Alzheimer's disease. Alzheimer's Association Grant (PI: Dhana, 0% FTE), *Co-investigator*, 2022-2025.
4. Dietary vitamins, ApoE4, and risk of Alzheimer's disease. Alzheimer's Association Grant (PI: Liu, 0% FTE), *Co-investigator*, 2022-2025.
5. Alzheimer's Disease Research Center. Core C: Data Management and Statistical Core. UC Davis Alzheimer's Disease Center (P30AG010129, 10% FTE), *Rush Principal Investigator*, 2019-2024.
6. Factors influencing the decline in AD trends in a biracial population study. NIH Grant, RF1AG057532 (Rajan), *Principal Investigator*, 2017-2022 (\$1.8 million, 30% FTE).
7. Administrative supplement on COVID-19: R01AG058679 (Rajan), *PI*, 2020-2021 (\$425,000, 5%).
8. Nonlinear changes in cognition preceding development of AD and non-AD in a biracial population. NIH Grant, R01AG051635 (Rajan), *Principal Investigator*, 2016-2022 (\$1.3 million, 30% FTE).

9. Lifestyle education to promote healthy brain aging in the East Bay: Application of an adapted T2D Prevention Program (DPP). California Department of Public Health Grant (Johnson), Co-Investigator, 2019-2024 (5% FTE).
10. Biospecimens for UC Davis Alzheimer Disease Center (P30AG010129). Administrative Supplement to UC Davis Alzheimer's Disease Center, Co-Investigator, 2018-2019.
11. Genetic epidemiology of cognitive decline in an aging population sample. NIH Grant, R01-AG030146 (Evans), Biostatistician, 2013-2018.
12. Predictive index for elder self-neglect in diverse populations. Department of Health and Human Services grant, 90EJIG0005-01-00 (Dong), Biostatistician, 2016-2018.
13. Epidemiology of psychological distress in a Chinese aging population. NIH Grant, R01-AG042318 (Dong), Biostatistician, 2012-2019.
14. Suicide prevention in Chinese older adults. NIH Grant, R34-MH100443 (Dong), Biostatistician, 2014-2017.
15. Clinical data research network project: Chicago area patient centered outcomes research network (CAPriCORN). PCORI grant, CDRN 1306-04737 (Mazany), Biostatistician, 2014-2018.
16. Development of co-morbid PTSD and chronic pain among inner-city women. NIH Grant, R01-DA039522 (Hobfoll & Burns), Biostatistician, 2015-2020.
17. Bright light treatment at home to manage chronic pain In U.S. veterans. NIH Grant, R34-AT008347-01 (Burgess), Co-investigator, 2014-2017.
18. Morning light treatment at home to improve glucose metabolism in people at risk for type 2 diabetes. NIH Grant, R21-NR016377 (Knudson & Burgess), Co-investigator, 2016-2018.
19. Culture and caregiving need for Chinese elderly with cognitive impairment. NIH Grant, R01-NR014846 (Dong & McCann), Biostatistician, 2015-2019.
20. The relationship between live, performing arts attendance and the cognitive function and well-being of older adults. The National Endowment for Arts (NEA) (Rajan), Consultant, 2015-2017.
21. Filial piety and psychosocial wellbeing in Chinese population. NIH Grant, R01-MD006173A1 (Dong), Biostatistician, 2012-2017.
22. Corrosion Induced Hip Implant Failure: Synergistic Interactions of Patient, Material, Design, and Surgical Factors. NIH Grant, R01-AR070181 (Lundberg et al.), Co-investigator, 2016-2021.
23. The Life Program: A behavioral approach to glycemic control in African Americans. NIH Grant, R01-DK092271 (Lynch), Biostatistician, 2011-2017.
24. Use of a novel prebiotic fiber for treatment of irritable bowel syndrome. NIH Grant, SBIR R44-DK088525-02 (Cisernos), Co-investigator, 2013-2016.
25. Biological and psychological factors as predictors and indicators of mindfulness-based stress reduction (MBSR) response. NIH Grant, R01-AT007143 (Keshavarzian & Hobfoll), Biostatistician, 2011-2016.
26. Role of lifestyle activities on genetic risk of neurodegeneration by race/ethnicity. International Alzheimer's Association. NIRG302587 (Rajan), Principal Investigator, 2014-2016.

27. Exposure to Traffic-Related Air Pollution and Disability in Older Adults, National Institutes of Environmental Health, R21-ES020404-01 (Weuve), Biostatistician, 2012-2014.
28. Building Research Infrastructure and Network in Chicago Chinatown, National Institutes of Health, RC4-AG039085 (Dong), Biostatistician, 2010-2013.
29. Chinese Health and Aging Project: Building Support through Community Engagement, National Institute on Aging, R21-AG038815 (Dong), Biostatistician, 2011-2013.
30. Selection models and pattern-mixture models for missing data due to non-participation and death in epidemiologic studies. Rush Alzheimer's disease center, grant K3021231, Principal Investigator, 2010-2011
31. Early and Mid-Life Social Determinant of Racial Disparities in Late-Life Health, National Institute on Aging, grant R01AG032247, Biostatistician, 2009-2012.
32. Mortality of Self-Neglect in a Community-Dwelling Population, National Institutes of Health, Grant K23 AG030944-02S1, Biostatistician, 2009-2013.
33. Risk Factors for Incident AD in a Biracial Community, National Institutes of Health, grant R01AG11101 (Evans), Biostatistician, 2009-2012
34. Epidemiologic Study of Persons with Alzheimer's Disease, National Institute on Aging, grant R01AG09966, Biostatistician, 1991-2012.
35. SES and Age-Related Disability in a Biracial Community, National Institute on Environmental Health Services, grant R01ES10902-01, Biostatistician, 2000-2010.
36. Statistical Methods for Dental Research, National Institute for Dental Research, grant R01DE15651, Statistician, 2004-2009.
37. Data Coordinating Center for the Pacific Northwest Research Center, National Institute for Dental Research, grant U01DE16752, Statistician, 2005-2009.
38. Role of Social Environments on Youth Smoking Acquisition, National Cancer Institute, R01CA96971, Statistician, 2003-2007.
39. Parent Protective Factors for Youth Smoking, National Cancer Institute, R01CA77581, Statistician, 1999-2002.
40. Randomized controlled trial of a one-year moderate-to-vigorous exercise intervention on various biomarkers of colon cancer risk, National Cancer Institute, R01CA77572, Statistician, 2001-2003.
41. Physical Activity for total health among sedentary women, National Cancer Institute, R01CA69334, Statistician, 2000-2003.

SCIENTIFIC AND SCHOLARLY ACTIVITIES

Journal Reviewer

- JAMA, Nature Medicine, Nature Communications, Nature Neuroscience, JAMA Neurology, Neurology, European Journal of Neurology, Neurology and Neuromedicine, Brain Research Bulletin, Biomolecules, BMJ Medicine.
- Circulation, Stroke, American Journal of Preventive Medicine, Journal of Racial and Ethnic Health Disparities, Journal of Affective Disorders, Current Cardiology Reviews.
- BMC Public Health, Lancet Public Health, PLOS ONE, PLOS Health & Aging.

- Alzheimer's & Dementia, Alzheimer's Research & Therapy, Journal of Alzheimer's Disease, Alzheimer's Disease and Associated Disorders, International Journal of Alzheimer's Disease.
- American Journal of Epidemiology, Annals of Epidemiology, Epidemiology, Journal of American Public Health, Journal of Epidemiology & Community Health.
- Journal of Gerontology Medical Sciences, Journal of Gerontology Social Sciences, Journal of Aging and Health, Psychosomatic Medicine, International Journal of Geriatric Psychiatry, Journal of the American Aging Association, Disability and Rehabilitation.
- Statistics in Medicine, International Journal of Statistics & Applications, Journal of Biopharmaceutical Statistics, Journal of Applied Statistics, Journal of Modern Applied Statistical Methods.

Editorial Board

Associate Editor, Journal of Alzheimer's Disease

Guest Editor, PLOS Aging and Health

National and International Invited Committees

1. Chair, NIH/NIA Review Committee. R61/R33 Health Equity and Cost Effectiveness of AD/ADRD Treatments Review Committee. RFA-AG-24-050. Special emphasis panel ZAG1 ZIJ-9 (M4). March 2024. [SRO: Carmen Moten].
2. Panel Member. National Institute of Neurological Disorders (NINDS) Committee for the Impact of COVID-19 on Neurological Disorders, 2022.
3. National Institutes of Health (NIH/NIA) and the International Alzheimer's Association. Leader of short- and mid-term US projections for Alzheimer's Dementia prevalence and case counts in the United States (2020-2025), 2021.
4. Chair, Public Health and Epidemiology, Alzheimer's Association International Conference, 2020.
5. National Institutes of Health (NIH/NIA) and the International Alzheimer's Association. Member of long-term biomarker-based prevalence estimates of Alzheimer's Dementia in the United States and worldwide, 2020.

NIH Grant Review Study Sections

1. NIH/NIA. U19 Program Review for Collaborative Applications Review of Complex Integrated Multi-Component Projects in Aging Research. 2026/05 ZRG1 NV-N (60). National Institutes of Health, Bethesda, MD. 06/07/26-07/08/2026.
2. NIH. Population Sciences and Epidemiology Integrated Review Group. Analytics and Statistics for Population Research Panel A (ASPA) Study Section. National Institutes of Health, Bethesda, MD. 06/23/2026-06/24/2026.
3. NIH/NINDS. U19 Program Review for Collaborative Applications Review of Complex Integrated Multi-Component Projects in Aging Research. 2025/10 ZRG1 AN-E(60) C. National Institutes of Health, Bethesda, MD. 08/20/2025 – 08/21/2025.

4. NIH/NIA. Program Projects P01: Alzheimer's Disease and Aging. 2026/01 ZRG1 AN-Y (41) P. National Institutes of Health, Bethesda, MD, 10/15/2025-10/16/2025.
5. NIH/NIA. P01 Program Review. Center for Scientific Review, ZRG1 AN-Y(41) Special Emphasis Panel, August 2025.
6. NIH/NIA Review Committee. Aging, Infections, Musculoskeletal, and Rheumatology (AIMR) study section August 2024.
7. NIH/NIA Review Committee. R61/R33 Health Equity and Cost Effectiveness of AD/ADRD Treatments Review Committee. RFA-AG-24-050. Special emphasis panel ZAG1 ZIJ-9 (M4). March 2024.
8. Panel Member, NIH Study Section. U01 grant funding mechanisms. ZAG1 ZIJ-S (03). July. 2024.
9. National Institutes of Health Minority Health and Disparities (NIH/NIHMD). ZMD1 MLS J1 R, NIMHD Centers of Excellence in Investigator Development and Community Engagement (P50 - Clinical Trial Optional). November 2023.
10. National Institutes of Health. Special Emphasis Panel on Alzheimer's research training grants. R32 AD/ADRD Clinical Trials. October 2023.
11. National Institutes of Health. Population Sciences & Epidemiology (PSE H-55). June 2022.
12. National Institutes of Health. Special Review Panel for U19. May 2022.
13. National Institutes of Health. Population Sciences & Epidemiology. Feb 12, 2022.
14. National Institutes of Health. Special Scientific Review Group: ZAG1 ZIJ-1 (02) U19, Early Diagnosis and Prediction. July 15, 2020.
15. National Institutes of Health. Special Scientific Review Group: ZAG1 ZIJ-P (M3) U19, Early Diagnosis and Prediction. Feb 13, 2020.
16. National Institutes of Health. Early-stage clinical trials for the spectrum of Alzheimer's disease and age-related cognitive deficits. ZRG1 BBBP-B:(55) R. Oct 13, 2019.
17. National Institutes of Health. Early-stage clinical trials for the spectrum of Alzheimer's disease and age-related cognitive deficits. ZRG1 BBBP-B (55). April 2019.
18. National Institutes of Health. Center for Scientific Review. Small business: Risk prevention and health behavior across the lifespan special emphasis panels. 2018/07 RPHB 12.
19. National Institute on Aging. A global perspective on dementia. Special Emphasis Panel, 2017/02 ZAG1 ZIJ-9 (03).
20. International Alzheimer's Association research grant, 2017.
21. International Alzheimer's Association Young Investigator research grant, 2016.
22. International Alzheimer's Association Young Investigator research grant, 2015.

Media & Print Interviews

1. McPhillips, D (CNN). Alzheimer's among seniors is most common in these parts of the US, first-of-its-kind data shows. <https://www.cnn.com/2023/07/17/health/alzheimers-prevalence-by-county-wellness/index.html>
2. Fonseca R (LA Times). California has the most older adults with Alzheimer's disease, a new study finds. <https://www.latimes.com/california/newsletter/2023-07-27/alzheimers-study-california-counties-essential-california>
3. Roberts A (Baltimore Sun). Study: Baltimore ranks among jurisdictions with highest Alzheimer's disease prevalence. <https://www.baltimoresun.com/health/bs-hs-alzheimers-prevalence-baltimore-20230719-2tg25uxng5a53h6yn76cavmeii-story.html>
4. Alzheimer's Association. Researchers reveal first-ever county-level Alzheimer's prevalence estimates. https://aaic.alz.org/releases_2023/us-county-level-alzheimers-prevalence-estimates.asp#:~:text=For%20counties%20with%20a%20population,Baltimore%20City%2C%20Md.
5. <https://www.prnewswire.com/news-releases/researchers-reveal-first-ever-us-county-level-alzheimers-prevalence-estimates-301878251.html>
6. Johnson RS (US News). Counties with the worst Alzheimer's death rates. <https://www.usnews.com/news/healthiest-communities/slideshows/communities-with-the-highest-alzheimers-death-rates>
7. <https://www.medscape.com/viewarticle/994423?form=fpf>
8. <https://www.beckershospitalreview.com/rankings-and-ratings/10-counties-with-highest-alzheimers-prevalence-rates.html>
9. <https://www.webmd.com/alzheimers/news/20230718/new-report-shows-us-counties-highest-alzheimers-rates>
10. <https://www.marketwatch.com/story/the-highest-rates-of-alzheimers-are-in-these-u-s-counties-new-research-shows-f9880b64>
11. <https://www.smithsonianmag.com/smart-news/heres-where-the-highest-rates-of-alzheimers-are-in-the-united-states-180982559/>
12. <https://www.kxan.com/investigations/where-in-texas-is-alzheimers-most-prevalent-first-of-its-kind-county-level-data-released/>
13. <https://www.cbsnews.com/baltimore/news/baltimore-city-highest-alzheimers-disease-rate-prevalence/>
14. <https://www.wbalrtv.com/article/baltimore-alzheimers-disease-prevalence-high-ranking-united-states/44566113>
15. <https://www.nbcmiami.com/news/local/miami-dade-county-has-highest-prevalence-of-people-with-alzheimers-dementia-in-the-us-new-research-finds/3072904/>
16. <https://www.fox9.com/news/new-research-estimates-the-levels-of-alzheimers-county-by-county>
17. <https://abc7.com/alzheimers-disease-los-angeles-county-us-counties-zaldy-tan/13527907/>
18. <https://www.dallasnews.com/news/public-health/2023/07/17/alzheimers-rates-highest-in-texas-border-counties-new-study-shows/>

19. <https://www.azcentral.com/story/news/local/arizona-health/2023/07/18/yuma-county-seniors-may-have-the-highest-percent-of-alzheimers-in-az/70422064007/>
20. <https://chicagocaregiving.com/alzheimers-prevalence/>
21. <https://www.health.com/us-regions-with-most-alzheimers-disease-7564953>
22. <https://www.fox5dc.com/news/new-study-reveals-marylands-alarming-alzheimers-rates>
23. <https://www.houstonchronicle.com/news/houston-texas/health/article/This-Texas-county-mysteriously-has-the-2nd-17087902.php>
24. <https://www.mcknightsseniorliving.com/home/news/alzheimers-disease-most-prevalent-in-east-southeast-first-ever-county-level-data-show/>
25. <https://www.sacbee.com/news/california/article277710533.html>
26. <https://www.wifr.com/2023/07/18/dementia-rate-stephenson-county-residents-is-rapidly-growing-experts-say/>
27. <https://www.kxxv.com/alzheimer-s-disease-is-more-prevalent-in-these-parts-of-the-us>
28. <https://www.theguardian.com/us-news/2023/jul/18/where-alzheimers-most-common-us-counties>
29. <https://www.wvxu.org/health/2023-07-24/cuyahoga-hamilton-counties-highest-prevalence-alzheimers-ohio>
30. <https://www.neurologyadvisor.com/topics/alzheimers-disease-and-dementia/these-are-the-us-states-counties-with-rising-alzheimer-disease-prevalence/>
31. 2021 Alzheimer's disease facts and figures. <https://www.alz.org/media/Documents/alzheimers-facts-and-figures.pdf>
32. 2020 Alzheimer's disease facts and figures. <https://www.alz.org/media/Documents/alzheimers-facts-and-figures-2019-r.pdf>
33. UC Davis School of Medicine PHS faculty ranked 29th in Public Health PI NIH funding. <https://health.ucdavis.edu/health-news/research/24-uc-davis-school-of-medicine-researchers-ranked-in-top-10-for-nih-funding/2020/03>.
34. Alzheimer's Association, 5 March 2020. Researcher helps with facts and figures. <https://www.alzheimersblog.org/2020/03/05/uc-davis-researcher-helps-with-facts-and-figures/>.
35. 2019 Alzheimer's disease facts and figures. <https://www.alz.org/media/Documents/alzheimers-facts-and-figures-2019-r.pdf>
36. Journal summaries in internal medicine. October 22, 2018. <https://www.mdlinx.com/journal-summaries/dementia-trends-prevalence-incidence-epidemiological-study/2018/10/22/7547410/?rcid=14>
37. Matthew Baumgart. April 29, 2019. <https://aspe.hhs.gov/advisory-council-april-2019-meeting-presentation-medicare-dementia-care-planning>
38. Concordia-Chicago Faculty Member Awarded NEA Grant to Study Link Between the Arts and Aging. August 11, 2015. <https://cuchicago.edu/news-events/news/2015/08/concordia-chicago-faculty-member-awarded-nea-grant-to--study-link-between-the-arts-and-aging/>

39. Dallas ME. Memory, thinking tests may hint at Alzheimer's Risk. US News & World Report Health. June 24, 2015. <http://health.usnews.com/health-news/articles/2015/06/24/memory-thinking-tests-may-hint-at-alzheimers-risk>
40. Engel M. Memory tests may predict Alzheimer's 18 years early: study. New York daily News. <http://www.cbsnews.com/news/memory-test-could-signal-alzheimers-years-in-advance/>
41. Memory test could signal Alzheimer's years in advance. CBS News. June 26, 2015. <http://www.cbsnews.com/news/memory-test-could-signal-alzheimers-years-in-advance/>
42. DiSalvo D. Middle age memory failures can predict Alzheimer's disease 18 years before diagnosis. Forbes. June 28, 2015. <http://www.forbes.com/sites/daviddisalvo/2015/06/28/study-low-scores-on-memory-tests-during-middle-age-may-predict-alzheimers-18-years-later/>
43. Hughes S. Cognitive deficits present years before Alzheimer's Develops. Medscape. July 7, 2015. <http://www.medscape.com/viewarticle/847560>
44. Preidt R. Mental decline often precedes a stroke. US News & World Report Health. Aug 7, 2014. <http://health.usnews.com/health-news/articles/2014/08/07/mental-decline-often-precedes-a-stroke-study-finds>
45. Lowry F. Cognitive decline a harbinger of stroke? Medscape Medical News. Neurology. Aug 13, 2014. <http://www.medscape.com/viewarticle/829864>
46. Whiteman H. Cognitive decline may increase the risk of stroke. Medical News Daily. Aug 8, 2014. <http://www.medicalnewstoday.com/articles/280641.php>
47. Staff. Memory, thinking problems linked to stroke risk. The Nature World News. Aug 8, 2014. <http://www.natureworldnews.com/articles/8450/20140808/memory-thinking-problems-linked-stroke-risk.htm>
48. Robinson E. Medical decline in old age could be a warning of stroke to come. Medical Daily. Aug 10, 2014. <http://www.medicaldaily.com/mental-decline-old-age-could-be-warning-stroke-come-297360>
49. Lower cognitive function may increase stroke risk. Medical Practitioner's Research. Aug 18, 2014. <http://www.empr.com/lower-cognitive-function-may-increase-stroke-risk/article/366692/>
50. Mullaney T. Stroke risk spikes with declining cognition. Aug 11, 2014. <http://www.mcknights.com/stroke-risk-spikes-with-declining-cognition-researchers-say/article/365408/>
51. San Luis N. Brain function affected stroke risk. Aug 7, 2014. <http://www.dailyrx.com/cognitive-decline-linked-increased-risk-stroke-older-adults>
52. Ferfecir. Slowing brain capabilities connected to improved threat of stroke, demise. Health Loss. <http://healthloss.com/slowng-brain-capabilities-connected-to-improved-threat-of-stroke-demise>
53. Mental decline often precedes a stroke. Health24. 13 Aug, 2014. <http://www.health24.com/Medical/Stroke/New-studies/Mental-decline-often-precedes-a-stroke-20140808>.
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56. Slowing brain function linked to increased risk of stroke, death. <http://www.laggano.com/2014/08/slowing-brain-functions-linked-to.html>
57. Cognitive impairment linked to stroke. Barchester Healthcare. Aug 11, 2014. <http://www.barchester.ie/news/view/1114>
58. Seniors waning brain function tied to stroke, mortality risk. Medpage Today. Aug 8, 2014. <http://www.medpagetoday.com/Cardiology/Strokes/47117>
59. Alice. Cognitive decline may be warning sign of stroke. Good Health. Aug 12, 2014. <http://www.bs757.com/2014/08/cognitive-decline-may-be-warning-sign-of-stroke-research-suggests/>
60. Benz M. Stroke: Lower cognition function linked to increase risk, mortality. Medical Research. Aug 9, 2014. <http://medicalresearch.com/stroke/stroke-lower-cognitive-function-linked-increase-risk-mortality/6846/>
61. American Heart Association. "Slowing brain functions linked to increased risk of stroke, death." ScienceDaily. ScienceDaily, 7 August 2014. www.sciencedaily.com/releases/2014/08/140807163633.htm
62. Depression May Magnify APOE e4 Variant's Impact on Cognitive Decline. <http://alert.psychiatricnews.org/2014/03/depression-may-magnify-apoe-e4-variants.html>
63. Arehart-Treichel. Depression, Gene Variant Combine to Affect Cognitive Decline. Psychiatric News. <http://psychnews.psychiatryonline.org/newsarticle.aspx?articleid=1863901>

Genetic Consortiums

1. Genetic variation underlying traumatic brain injury (TBI) and Late Onset Alzheimer's Disease (LOAD). Sandra Barral-Rodriguez, Columbia University, NY.
2. Genome-wide association study of chronic heart disease (CHD) in African and European descents. Paul de Vries, University of Texas Medical Center.
3. Genome-wide association study of C-reactive protein in people of European origin. The Cohorts for Heart and Aging Research (CHARGE) consortium.
4. Genome-wide association study of cognitive decline in African Americans. Broad Institute for Population Genetics & Rush Institute for Healthy Aging. Philip De Jager, Brigham Women's Hospital, Cambridge, MA.
5. Genome-wide association of brain infarcts in European Americans and African Americans. The Cohorts for Heart and Aging Research in the Community (CHARGE) NEURO consortium. Sudha Seshadri, Boston University, MA.
6. Genome-wide association study of body mass index and C-reactive protein in European and African Americans. The Cohorts for Heart and Aging Research (CHARGE) CRP group.

Professional Memberships

International Society to Advance Alzheimer's Research and Treatment (ISTAART), American Statistical Association, International Genetic Epidemiology Society, American Geriatric Society, International Biometric Society, Society for Epidemiologic Research, Society for Behavioral Medicine

Invited Presentations at Regional, National, and International Meetings

1. **Rajan KB**, Evans DA. Projected number of people living with Alzheimer's dementia and mild cognitive impairment in the United States from 2020 to 2025. Alzheimer's Association International Conference, Amsterdam, Netherlands, 2020.
2. **Rajan KB**, Rajan RS, DeCarli CF. Arts Activities and MRI Measures of Brain Health and Cognition in Older Adults. Sponsored by Adult development and Aging Division. Symposium on Unleash the Artist Within---Arts-Based Therapies and Interventions Across the Lifespan. 2019 Annual Meeting of the American Psychological Association, Chicago.
3. **Rajan KB**. Racial differences in epidemiologically derived cognitive resilience from a population sample. 15th Advanced Psychometric Methods in Cognitive Aging Research. Lake Tahoe, CA, 2018.
4. **Rajan KB**. Regression methods for ROC curves in diagnostic studies with ordinal data. International Biometric Society, Portland State University, Oregon, 2009.

Oral and Poster Presentations at Regional, National, and International Meetings

Session Chair: Developing Topic Session: Public Health and Epidemiology, Thursday, July 30, 2020: 7:00 AM - 8:00 AM, Virtual AAIC, Virtual Room Name: Amsterdam.

1. Rajan KB, Wilson RS, Barnes LL, Aggarwal NT, Evans DA. Racial differences in midlife cognitive function: Implications for AD/ADRD Risk. Alzheimer's Association International Conference, 2026.
2. Liu X, Beck T, Dhana K, Desai P, Evans DA, **Rajan KB**. Dietary Fat Intake, Blood Tau Levels, and Cognitive Decline in Older Adults. Alzheimer's Association International Conference, 2025.
3. Mansour P, Maillard P, **Rajan KB**, Jin LW, Hinman J, Johnson DK, Harvey H, Fornage M, DeCarli, C MD, Diverse Vascular Contributions to Cognitive Impairment and Dementia (Diverse VCID) Study Investigators. Vascular Risk Factors and Brain Structure in Diverse Vascular Cognitive Impairment and Dementia (DVCID) Study: Preliminary Findings. Alzheimer's Association International Conference, 2025.
4. Dhana A, DeCarli C, Dhana K, Aggarwal NT, Dennis K, Evans DA, **Rajan KB**. The Role of Elevated Midlife Blood Pressure on Cognition and White Matter Hyperintensities. Alzheimer's Association International Conference, 2025.
5. Dhana A, DeCarli C, Dhana K, Desai P, Evans DA, **Rajan KB**. The Role of Kidney Function on the Biomarkers of Neurodegeneration and Cognitive Decline in Older Adults. Alzheimer's Association International Conference, 2025.
6. Liu X, Beck T, Dhana K, Desai P, Evans DA, **Rajan KB**. Sex- and APOEε4-Specific Association Between Carotenoids and Cognitive Decline in Older Adults. Alzheimer's Association International Conference, 2025. Alzheimer's Association International Conference, 2025.
7. Desai PJ, DeCarli C, Aggarwal NT, **Rajan KB**. The Social Vulnerability Index and Neuroimaging Outcomes in a Population-Based Cohort Study. Alzheimer's Association International Conference, 2025. Alzheimer's Association International Conference, 2025.

8. Dhana K, Beck T, Liu X, Dhana A, Ng TKS, Desai P, Evans DA, **Rajan KB**. Association of Proton Pump Inhibitor Use with the Risk of Alzheimer's Dementia in a Bi-Racial Population-based Study. Alzheimer's Association International Conference, 2025. Alzheimer's Association International Conference, 2025.
9. Ng KS, Beck T, Desai P, Dhana K, Wilson RS, Evans DA, **Rajan KB**. Compounding Effects of APOE4 and Blood Neurodegenerative Biomarkers on Cognitive Decline in Community-dwelling Older Adults. Alzheimer's Association International Conference, 2025.
10. Ng KS, Beck T, Desai P, Dhana K, Wilson RS, Evans DA, **Rajan KB**. Prospective Associations of Interleukin-6 and APOE 4 Allele with Cognitive Decline in Biracial Community-dwelling Older Adults: the Chicago Health and Aging Project (CHAP). Alzheimer's Association International Conference, 2024.
11. Ng KS, Beck T, Liu X, Desai P, Holland T, Dhana K, Krueger KR, Wilson RS, Evans DA, **Rajan KB**. Critical Modifying Effect of APOE 4 Allele and Sex on the Prospective Associations between Lipid Species and 10-year Cognitive Decline in Biracial Community-dwelling Older Adults: The Chicago Health and Aging Project (CHAP). Alzheimer's Association International Conference, 2024.
12. Dhana A, DeCarli C, Dhana K, Desai P, Evans DA, **Rajan KB**. Visit-to-Visit Blood Pressure Variability and Global Cognition in Black and White Older Adults: A Population-Based Cohort Study. Alzheimer's Association International Conference, 2024.
13. Desai P, Ng T, Krueger K, Evans DA, Rajan KB. Social Vulnerability Index and Cognitive Decline in a Population-Based Cohort Study. Alzheimer's Association International Conference, 2024.
14. Dhana K, Beck T, Liu X, Dhana A, Ng TKS, Desai P, Evans DA, **Rajan KB**. External Validation of Dementia Prediction Models in Black or African American and White Older Adults: A Population-Based Study in the United States. Alzheimer's Association International Conference, 2024.
15. Dhana K, **Rajan KB**, Aggarwal NT, Arfanakis K, Carey VJ, Sacks FM, Barnes LL. Dietary intervention, biomarkers of brain pathology and neurodegeneration, and cognition: The MIND Trial Study. Alzheimer's Association International Conference, 2024.
16. Liu X, **Rajan KB**, Tagney CC, Dhana K, Sacks F, Willett WC, Aggarwal NT, Barnes LL. Higher blood antioxidant nutrient levels associated with slower cognitive decline among individuals with APOE-e4: an investigation on the MIND trial participants. Alzheimer's Association International Conference, 2024.
17. K Dhana, T Beck, P Desai, RS Wilson, DA Evans, **Rajan KB**. Prevalence of Alzheimer's dementia in the 50 US states and 3142 counties: A population estimate using the 2020 bridged-race postcensal from the National Center for Health. Alzheimer's Association International Conference, 2023.
18. Dhana A, DeCarli C, Dhana K, Desai P, Holland TM, Evans DA, **Rajan KB**. Cardiovascular health and the risk of Alzheimer's dementia in a biracial population-based study. Alzheimer's Association International Conference, 2023.

19. Liu X, Beck T, Evans DA, Rajan KB. Dietary Pattern and Risk of Hearing Loss: An Investigation of a Bi-Racial Cohort Among Older Adults. *Current Developments in Nutrition*, 2023.
20. Agarwal P, Barnes LL, Dhana K, Liu X, Zhang Y, Beck T, Cornelis MC, Tangney CC, Rajan KB. Association of MIND Diet with Cognitive Decline among African Americans and non-Hispanic White Older Adults. *Alzheimer's Association International Conference*, 2023.
21. Liu X, Beck T, Evans DA, Rajan KB. Association of Dietary Fat and the ApoE4 Allele with Cognitive Decline in a Biracial Population Sample. *Alzheimer's Association International Conference*, 2023.
22. Krueger KR, Desai P, Beck T, Wilson RS, Evans DA, Rajan KB. Cognitive Activity, Cognitive Function, and Neurological Blood Biomarkers. *Cognitive Activity, Cognitive Function, and Neurological Blood Biomarkers. Alzheimer's Association International Conference*, 2023.
23. Desai P, Krueger KR, Medn de Leon C, Wilson RS, Evans DA, **Rajan KB**. Associations between depressive symptoms, glial fibrillary acid protein, and cognitive decline in a population-based study. *Alzheimer's Association International Conference*, 2023.
24. Holland TM, Evans DA, Dhana K, **Rajan KB**. Chronic Anti-GERD Medication Association to Cognitive Decline in a Racially-Diverse Elderly Population. *Alzheimer's Association International Conference*, 2023.
25. Dhana K, Aggarwal NT, Beck T, Liu X, Barnes LL, Evans DA, **Rajan KB**. Healthy Lifestyle and Cognitive Decline in People Living with Stroke in the Community. *Alzheimer's Association International Conference*, 2022.
26. Desai P, Krueger K, Mendes de Leon, Wilson RS, **Rajan KB**, Evans DA. Loneliness and Cognitive Decline in the Community: Examining Demographic and APOE4 Status Differences. *Alzheimer's Association International Conference*, 2022.
27. Halloway S, Evans DA, Desai P, **Rajan KB**. Serum Total Tau, Neurofilament Light, and Glial Fibrillary Acidic Protein are Associated with Overall and Cardiovascular Mortality in a Biracial Longitudinal Population-based Cohort. *Alzheimer's Association International Conference*, 2022.
28. Dhana A, DeCarli C, Dhana K, Desai PJ, Krueger K, Evans DA, **Rajan KB**. Subjective Memory Complaints, White Matter Hyperintensities, and Cognitive Decline in a Population-Based Cohort Study. *Alzheimer's Association International Conference*, 2022.
29. Dhana A, DeCarli C, Dhana K, Desai PJ, Krueger K, Evans DA, **Rajan KB**. White matter hyperintensity, neurofilament light chain, and cognitive decline. *Alzheimer's Association International Conference*, 2022.
30. Liu, X, Beck T, Dhana K, Evans DA, **Rajan KB**. Association of Vitamin E, APOE E4 allele, and Cognitive Decline in Biracial Population Sample. *Alzheimer's Association International Conference*, 2022.
31. Racial Differences in the Association of MIND Diet/Physical Activity Combinations and Cognition in older adults. *Alzheimer's Association International Conference*, 2022.

32. Halloway S, Desai P, Aggarwal NT, Agarwal P, Evans DA, **Rajan KB**. Blood Neurofilament Light, Parkinson's Disease, Parkinsonism, and Physical Function in a Longitudinal Population Study. Alzheimer's Association International Conference, 2021.
33. Longitudinal Evaluation of Total Tau and Physical Activity on Cognitive Decline in a Population-Based Study. Alzheimer's Association International Conference, 2021.
34. Healthy Lifestyle and Cognitive Decline in People Living with Stroke in the Community. Alzheimer's Association International Conference, July 2021.
35. Effects of the MIND Diet and Physical Activity on Cognitive Domains in the Elderly. Alzheimer's Association International Conference, July 2021.
36. **Rajan KB**, Barnes LL, DeCarli C, Evans DA. The overlapping effect of population demographics and social characteristics on COVID-19 and Alzheimer's disease. Alzheimer's Association International Conference, Amsterdam, Netherlands, 2020.
37. Aggarwal NT, Barnes LL, Wilson RS, McAninch EA, Evans DA, **Rajan KB**. Sex differences on the association of APOE E4 allele with cognitive decline. Alzheimer's Association International Conference, Amsterdam, Netherlands, 2020.
38. Martinez P, Wilson RS, DeCarli CF, Whitmer RA, Evans DA, **Rajan KB**. Late-life cognitive activities, structural MRI, and cognitive function in a biracial population sample. Alzheimer's Association International Conference, Amsterdam, Netherlands, 2020.
39. Judy Pa, Vahan Aslayan, Kaitlin Casaletto³ Miguel A. Renteria, Amal Harrati⁴, Sarah E. Tom⁵, Nicole M. Armstrong⁶, **Kumar B. Rajan**⁷, Justina Avila², Yian Gu², Jennifer J. Manly², Adam M. Brickman², and Laura B. Zahodne. Effect of sex and lifestyle activities on cognitive reserve in a cohort of ethnically diverse, community-dwelling older adults. Alzheimer's Association International Conference, Amsterdam, Netherlands, 2020.
40. **Rajan KB**, DeCarli CF, Evans DA. MRI-based neuroimaging determinants of cognitive functioning in a biracial population sample. Alzheimer's Association International Conference, Los Angeles, CA 2019.
41. Klodian D, Evans DA, **Rajan KB**, Bennett DA, Morris MC. Impact of healthy lifestyle factors on the risk of Alzheimer's dementia: Findings from two prospective cohort studies. Alzheimer's Association International Conference, Los Angeles, CA 2019.
42. **Rajan KB**. Epidemiologically derived cognitive resilience in a biracial population sample. 15th Annual Advanced Psychometrics Methods in Cognitive Aging Research, Lake Tahoe, California, 2018.
43. Weuve J, D'Souza J, **Rajan KB**, Evans DA, Kaufman J, Adar SD. Long-term exposure to community noise in relation to Alzheimer's disease and related dementias. International Society for Environmental Epidemiology, 2018.
44. Agdamag AC, Gomez J, **Rajan KB**, Emma Fleisher, Aggarwal NT, Braun L, Shanghani R, Williams KA, Volgman A. Comparisons of Screening Electrocardiogram and transthoracic echocardiogram

- abnormalities with 10-year ASCVD risk score among community dwelling women. American Heart Association, 2018.
45. **Rajan KB**, Evans DA. Blood pressure and risk of cognitive decline in a population study. 21st International Association of Gerontology and Geriatrics (IAGG) World congress, San Francisco, CA, July 2017.
 46. Mendes de Leon CF, **Rajan KB**, Evans, DA. Longitudinal effects of social network diversity on mortality and disability among elderly. 21st International Association of Gerontology and Geriatrics (IAGG) World congress, San Francisco, CA, July 2017.
 47. McAninch EA, **Rajan KB**, Evans DA, Jo S, Chaker I, Peeters R, Bennett DA, Bianco A. A common DIO2 polymorphism and Alzheimer's disease dementia in African and European Americans. American Thyroid Association Annual Meeting, Denver, Colorado, Sept 21-25, 2016.
 48. **Rajan KB**, Evans DA. Understanding the attenuated association of APOE E4 allele among African Americans. Alzheimer's Association International Meeting, Toronto, July 24-27, 2016.
 49. Farran CF, **Rajan KB**. Effect of Activities, Social Environment, and Psychotropic Medication Use on Behavioral Symptoms of Nursing Home Residents with Dementia. Alzheimer's Association International Meeting, Toronto, July 24-27, 2016.
 50. Lynch EB, Mack L, Avery E, Keim KS, Appelhans B, Liebman R, Ventrelle J, Tahsin B, Wang Y, **Rajan KB**, Fogelfeld L. Lifestyle Improvement through Food and Exercise (LIFE): Randomized Trial of a Self-Management Intervention for Underserved African Americans with Type 2 Diabetes. American Diabetes Association, New Orleans, June 10-14, 2016.
 51. Cvetanovich GL, Farkas GJ, **Rajan KB**, Espinoza Orias AA, Nho SJ. Improved Squat and Gait Biomechanics 6-Months Post-Arthroscopic Surgery for Femoroacetabular Impingement. Annual Meeting of the American Orthopaedic Society for Sports Medicine. Colorado Springs, Colorado, July 7-10, 2016.
 52. Farkas GJ, Cvetanovich GL, **Rajan KB**, Espinoza Orias AA, Nho SJ. Six-Month Postoperative Improvements in Squat and Gait Biomechanics Following Arthroscopic Surgery For Symptomatic Femoroacetabular Impingement. Annual Meeting of the Orthopaedic Research Society. Orlando, Florida, March 5-8, 2016.
 53. Inventor B, Farran CJ, Paun O, Cothran F, **Rajan KB**, Swantek S, McCann J. Effect of Activities, Social Environment, and Psychotropic Medication Use on Behaviors of Persons with Dementia. Gerontological Society of America, Orlando FL, 2015.
 54. **Rajan KB**, Evans DA. Optimum covariate space in random change point models. Joint Statistical Meeting, American Statistical Association, 2015.
 55. Squat and Gait Biomechanics 6-Months Post-Arthroscopic Surgery for Symptomatic Femoroacetabular Impingement. American Association of Orthopedic Surgeons, 2015.
 56. Farran CJ, McCann JJ, Etkin C, Eisenstein A, **Rajan KB**, Castro CM, King AC, Navaie M. Impact of physical activity intervention on improving mental health outcomes in family caregivers of persons with dementia: Randomized control trial. Midwest Nursing Research Society, 2015.
 57. Trans-ethnic GWAS of MRI-defined brain infarcts: CHARGE consortium. International Stroke Conference, 2014.

58. **Rajan KB**, Aggarwal NT, Evans DA. Gene-environment interactions on cognitive decline: Findings from the Chicago Health and Aging Project. Annual meeting of Gerontology Society of America, 2013.
59. Mendes de Leon CF, Kelley-Moore J, **Rajan KB**, Evans DA. Neighborhood-Level Social Status and Change in Physical Function and Mortality. Annual meeting of Gerontology Society of America, 2013.
60. Farran C, McCann J, Etkin C, **Rajan KB**, Cynthia C, King A, Navaie M. Impact of a Lifestyle Physical Activity Intervention on Improving Mental Health Outcomes Among Family Caregivers of Persons with Dementia. Annual meeting of Gerontology Society of America, 2013.
61. Farran CF, Etkin C, Eisenstein A, **Rajan KB**, Castro CM, King AC, Smith JC, Navaie M. An individualized physical activity intervention for family caregivers of persons with dementia: Key findings from a randomized controlled trial. GSA 2013 late breaker poster session.
62. Kim Y, **Rajan KB**, Sims SA, Wroblewski KE, Reutrakul S. Hypoglycemia, not glycemic variability, is associated with adverse hospital outcomes in non-critically ill patients. Annual meeting of American Diabetes Association, 2013.
63. Soorya L, Wang T, Halpern D, Soffes S, Gorenstein M, **Rajan KB**, Beck TL, Buxbaum J. Seaver Nonverbal Synchrony, Emotion Recognition, and Theory of Mind Training (Seaver NETT): Short-term behavioral outcomes from a randomized, comparative trial of social skills group treatment, 2013.
64. Soorya L, Wang T, Halpern D, Soffes S, Gorenstein M, **Rajan KB**, Buxbaum J. Efficacy of social skills group treatments for school-aged children with ASDs: Short-term behavioral outcomes of randomized, comparative study. Presented at the International Meeting for Autism Research; 2013 May 2-4; San Sebastian, Spain.
65. Farran CJ, McCann JJ, Atkin C, Eisenstein A, **Rajan KB**, Castro CM, King AC, Navaie M. Effects of a lifestyle physical activity intervention on family caregivers of persons with dementia: A randomized controlled trial. Annual meeting of American Public Health Association, Boston, 2013.
66. Mendes de Leon CF, Barnes LA, **Rajan KB**. Exploring racial differences in the effect of depression on cognitive decline in older adults. Symposium on cognitive aging for International Association for Gerontology and Geriatrics, South Korea, 2013.
67. **Rajan KB**, Evans DA. Racial differences in onset and progression of physical disability in African Americans and European Americans. Society for Epidemiologic Research, 2012.
68. **Rajan KB**, Evans DA. Multi-Stage Random Effects Model for Disease Progression in Longitudinal Aging Studies. Joint Statistical Meeting, 2012.
69. Meltzer LA, McAuley JB, MD, **Rajan KB**, Hayden MK, Weinstein RA, Logan LK. A Multicenter Study of Extended Spectrum Beta-Lactamase producing Enterobacteriaceae Infections. Infection Disease Week Conference, 2012.
70. Balitz J, **Rajan KB**. Accuracy of Emergency Medicine Resident Ultrasound Trainees during Completion of ACEP Minimum Experiential Training Recommendations. Society for Emergency Medicine, 2012.
71. Sergel M, Nordquist E, Krieger B, Roche C, Lunceford N, Epsinoza E, Kysia R, **Rajan KB**, Gueret R, Balitz J. Does a simulation module educational intervention improve physician compliance and

- reduce patient mortality in severe sepsis and septic shock? Society of Academic Emergency Medicine, 2012.
72. Greenspan M, Jedel S, **Rajan KB**, Swanson G. Polyp detection and endoscopist personality. Digestive Disease Week, 2012.
 73. Scanzello CR, Albert A, **Rajan KB**, et al. Two-year post-surgical outcomes in patients undergoing arthroscopic partial meniscectomy: The influence of synovitis. The Orthopedic Research Society Meeting, 2011.
 74. **Rajan KB**. Modeling age at onset and progression of disability in longitudinal studies. Joint Statistical Meeting, 2011.
 75. **Rajan KB**, Evans DA. Physical Disability is Associated with Higher Decline in Cognitive Function of Older Adults. Society for Epidemiological Research, 2012.
 76. Scanzello CR, Albert A, **Rajan KB**, et al. Two-year post-surgical outcomes in patients undergoing arthroscopic partial meniscectomy: The influence of synovitis. The Osteo-arthritis Research Society Meeting, 2011.
 77. Farran CJ, Etkin CD, McCann, Eisenstein AR, Paun O, Barnes L, **Rajan KB**, Castro C, King CA. Development and implementation of a multi-component lifestyle physical activity intervention for family caregivers of persons with Alzheimer's disease. Annual National Institute for Nursing Research Conference, 2011.
 78. Farran CJ, Etkin CD, **Rajan KB**, McCann JJ, Paun O, Eisenstein AR. Professional Assessment of Family Caregiver Skill. International Conference on Alzheimer's Disease, 2011.
 79. **Rajan KB**, Evans DA, Mendes deLeon CF. Physical and mental risk factors for age at onset and progression of IADL disability among older adults. 3rd North American Congress of Epidemiology, 2011.
 80. Dhaliwal J, Gill HS, Chung BI, Harshman LC, **Rajan KB**, Srinivas S. Association of body mass index with progression-free survival in patients with advanced renal cell cancer treated with targeted therapies. American Society for Clinical Oncology Annual Meeting, 2011.
 81. Farran CJ, McCann JJ, Etkin C, Paun O, Eisenstein A, **Rajan KB**, Gitlin L. Implementing a Lifestyle Physical Activity Intervention with Caregivers of Persons with Dementia. GSA symposium, 2011.
 82. **Rajan KB**. Improving the power of the generalized score test with missing data. Joint Statistical Meeting, 2010.
 83. **Rajan KB**. Statistical methods for non-ignorable missing data with non-participation and death. Society for Epidemiological Research, Spotlight Session, 2010.
 84. **Rajan KB**. Joint modeling of missing data due to non-response and death in longitudinal aging studies. Joint Statistical Meeting, Washington DC, 2009.
 85. Mendes de Leon CF, Cagney KA, **Rajan KB**, Barnes LL, Scherr PA, Evans DA. Neighborhood Cohesion and Disorder in Relation to Change in Disability. The symposium of the epidemiology of aging interest group at GSA, 2009.
 86. **Rajan KB**. Regression methods for the area under the ROC curve for diagnostic studies with Ordinal Data. WNAR, International Biometric Society, 2008.
 87. **Rajan, KB**. The performance of biomarkers using ROC curves. University of Washington, Department of Biostatistics, (Best Student Poster Award), 2008.

88. Bricker JB, Andersen MR, **Rajan KB**, Peterson AV. (2006). Schoolmates and adolescent smoking: What is the prospective influence of same-age and older schoolmates' smoking on adolescents' smoking transitions? Society for Research on Nicotine and Tobacco, 2006.
89. **Bricker JB**, Peterson AV, Andersen MR, Sarason IG, Rajan KB, Leroux BG. (2006). Does the influence of parents' and siblings' smoking change during adolescence: A prospective study? Society for Research on Nicotine and Tobacco, 2006.
90. **Bricker JB**, Peterson AV, Rajan KB, Leroux BG, Andersen MR. Role of close friends' versus parents' and older sibling's smoking in children's 12th grade smoking: A prospective study. Society for Research on Nicotine and Tobacco, 2005.
91. **Bricker JB**, Peterson AV, Andersen MR, Rajan KB, Leroux, BG. Role of parents' and older sibling's smoking in children's smoking transitions: A prospective study. Society for Research on Nicotine and Tobacco, 2005.
92. **Rajan KB**, Bricker, J.B. Prospective influence of parental smoking on children's early versus late smoking acquisition. Society of Behavioral Medicine, 2004.
93. **Rajan KB**. Is parental smoking influence same from childhood to young-adulthood? Meritorious student paper. Society for Behavioral Medicine, 2004.
94. Bricker JB, **Rajan KB**. Eleven-year prospective relationship between parental smoking cessation and their children's smoking cessation. Society of Behavioral Medicine, 2004
95. **Rajan KB**. Influence of older siblings on adolescent smoking. Society for Behavioral medicine, 2002.
96. Bricker JB, Leroux, BG, **Rajan KB**. The timing of parent smoking cessation and the prevalence of their children's smoking. Society of Behavioral Medicine, 2002.
97. Andersen MR, Bricker JB, **Rajan KB**. Can parental anti-smoking practices prevent adolescent smoking? Society of Behavioral Medicine, 2002.

Invited Seminars and Lectures

44. Rajan KB. Use of joint models for longitudinal and time to event processes. Rush University Medical Center, 2014.
45. Rajan KB. A four-primer series for quantitative research methods. Rush Internal Medicine Training Program, 2013.
46. Rajan KB. A six-primer series for quantitative research methods. Rush Research Mentoring Program, 2013.
47. Rajan KB. Gene-environment interaction studies. Rush University Medical Center, 2013.
48. Rajan KB. Collaborating with biostatisticians. Rush Research Mentoring Program. Annual Retreat, 2011.
49. Rajan KB. Statistical methods for non-ignorable missing data in the presence of death. University of Illinois at Chicago, 2010.
50. Rajan KB. Pattern-mixture models for analyzing longitudinal data with non-participation and death. Rush University Medical Center, 2010.
51. Rajan KB. Statistical methods for non-ignorable missing data in the presence of death. Rush University Medical Center, 2010.

TEACHING & MENTORING

Mentee Awards

- 2021 Klodian Dhana, MD PhD. Cohn Research Fellow Award, Rush University Medical Center.
- 2022 Xiaoran Lui, PhD. Cohn Research Fellow Award, Rush University Medical Center.
- 2023 Xiaoran Lui, PhD. Association of dietary micronutrients and APOE4 with Alzheimer's disease and cognitive decline in a biracial population sample. International Alzheimer's Association Research Grant.
- 2024 Klodian Dhana, MD PhD. Developing a risk prediction model for Alzheimer's disease and cognitive decline in a biracial population sample. International Alzheimer's Association Research Grant.
- 2025 Ted Ng, PhD. Cohn fellowship. Mindfulness-based randomized clinical trial, Rush University Medical center.
- 2026 Xiaoran Lui, PhD. Best Junior faculty presentation at Neuroblitz. The processed brain: Ultra-processed foods and cognition, Rush University Medical Center.

Graduate Teaching

- 2000 Introductory Statistics (STAT 211), Bowling Green State University, Ohio, 2000
- 2005-8 Biostatistics Tutor, Department of Biostatistics, University of Washington, 2003-2008
- 2011 Bayesian Data Analysis (BSTT 566), Department of Epidemiology & Biostatistics, University of Illinois at Chicago
- 2018 Biostatistics for Biomedical Sciences (SPH245). Core course for MPH and MVet programs. 55 students, 4 credit hours.
- 2019 Biostatistics for Biomedical Sciences (SPH245). Core course for MPH and MVet programs. 54 students, 4 credit hours.
- 2019 Independent research study (SPH248). Morgan Bass, MS.
- 2019 Independent research study (SPH248). Domenica Del Pozo, MS.
- 2020 Independent research study (SPH248). Pauline Martinez, MS.
- 2020 BST 530. A Cox subpopulation-based competing risk model.

Faculty Advisor

1. Adam Furst, PhD Candidate. A partial likelihood approach to the ERR model. Qualifying exam committee, 2019.
2. Cassandra Leigh Fecho, 2018. MPH student. Faculty advisor.
3. Arvind Krishnachandran. Bachelor of Science in Statistical Data Science. University Honors Program at UC Davis, 2018. Project advisor. A stepwise adaptive debiased lasso regression model for genetic variants associated with cognitive functioning in older adults. Research Advisor.
4. Domenica Del Pozo, 2019 MPH student. Research Advisor.
5. Morgan Bass, 2019 MPH student. Research Advisor.

6. Pauline Martinez, 2020 Epidemiology Doctoral Student, Research Advisor.
7. Ben Inventor, PhD candidate, Department of Nursing, Rush University
8. Karen Mayer, PhD candidate, Department of Nursing, Rush University

Short Courses

1. Primer of a 6-short statistical course for Rush Research & Teaching Mentoring Program
2. Primer of a 4-short research methods course for Rush Internal Medicine Resident Training

Other Institutions

1. Bayesian Data Analysis (BSTT 566), Department of Epidemiology & Biostatistics, University of Illinois at Chicago, 2011
2. Biostatistics Tutor, Department of Biostatistics, University of Washington, 2003-2008
3. Introductory Statistics (STAT 211), Bowling Green State University, Ohio, 2000

Biostatistics & Bioinformatics Training Projects

1. Completion of specialty outpatient follow-up and rates of emergency department utilization and re-hospitalization for post-operative pediatric patients after a traumatic injury at a county hospital. Gabriel Siegel, MD.
2. 30 day and 90 day complications and readmissions after total knee, hip, and shoulder arthroplasty: a systematic review of rates, reasons, and risk factors. Brian Forsythe, MD.
3. Linking the femoroacetabular impingement deformity to hip function. Alexandra Espinoza, PhD.
4. Detecting performance strategies and markers of fatigue using wearable sensors to monitor baseball and softball pitches. Antonia Zaferiou, PhD.
5. Genetic and epigenetic biomarkers of rheumatoid arthritis. Tibor Rauch, MD.
6. Use of web-based program to improve effectiveness of cognitive therapy. Allison Wainer, PhD.
7. Effectiveness of partial thickness corneal transplant. Rachel Epstein, MD.
8. Risk stratification and care management assignment algorithm. Water Rosenberg, MD.
9. Evaluation of translational care program: navigator. Brittney Lange-Maia, PhD.
10. Frozen section as a diagnostic marker of mucor and aspergillus fungi pathology. Peter Papagiannopoulos, MD.
11. Intra-op and post-op deficits by the amount of tumor resected during surgery. Pouya Nazari, MD.
12. Post-operative hoarseness and dysphagia in patients who underwent neck fusion. Sepehr Sani, MD.
13. Development of a multi-gene signature radiosensitization of lung adenocarcinoma cells by metformin. Jeffery Borgia, PhD.
14. Epiretinal membrane removal study. John Pollack, MD.

15. A multi-center study to evaluate various techniques of locoregional therapy for patients with hepatocellular carcinoma. Sheila Eswaran, MD.
16. The effect of MDTP on quantifiable tongue strength measures following glossectomy. Lisa LaGorio, PhD.
17. Infectious complications after kidney transplantation: Analysis of the US renal database (USRDS) data. Carlos Santos, MD.
18. Rush University Medical Center Community Health Implementation Strategy 2014-2016 Evaluation. Rush University Patient-Centered Outcomes, 2015.
19. RNAseq to determine an expression signature that would predict patient response to cancer drugs. Abde Abukhdeir, PhD.
20. Factors leading to enhanced *Pseudomonas aeruginosa* infection in diabetic wounds. Sasha Shafikhani, PhD.
21. Development of DISCOVER repository data management program. Raj Shah, MD.
22. Clinical benefits of stem cells for chronic symptomatic systolic heart failure. Gary Schaer, MD.
23. Cardiovascular outcomes based on physical activity levels before and after cancer diagnosis. Tochi Okwuosa, MD.
24. Association of DIO2 polymorphism with the risk of incident Alzheimer's disease in general population. Elizabeth A McAninch, MD.
25. A randomized lifestyle improvement through food and exercise (LIFE) intervention for glycemic control over 12 months. Elizabeth B Lynch, PhD.
26. Quality of life predicting mortality in patients with SLE. Meenakshi Jolly, MD.
27. Natural language processing (NLP) identifying patients with heart failure with preserved ejection fraction. Sanjiv Shah, MD.
28. Racial disparities in patient health management and outcomes. Tricia J Johnson, PhD.
29. Racial disparities in breast cancer mortality in Chicago area. Domonique Sikhodo, PhD.
30. Effective of deep brain stimulation on seizures among patients with epilepsy. Sepeher Sani, MD.
31. Understanding flares in systemic lupus erythematosus, using the patient-centered clinical research network platform. Meenakshi Jolly, MD.

Research Mentoring and Teaching Program Projects

1. Association of IAT with sleep and behavioral measures. Megan Crawford, PhD, 2016.
2. Association of CD4 and CD8 with CSF VL and blood VL in patients with HIV infection. Maureen Richards, PhD, 2016.
3. Predictive ability of new scoring system for autism diagnosis. Anne Hoffman, PhD, 2015.
4. A pilot study of cognitive-behavioral resilience training for trauma survivors with subthreshold distress. Alyson Zalta, PhD, 2015.
5. Prospective clinical trial using biomarkers to detect penile prosthesis infections. Patrick Whelan, MD, 2015.

6. Translating disparities in vascular rates from electronic medical records to communities. Rajeev Garg, MD, 2015.
7. Effects of alcohol and diet on genetics of colorectal cancer. Faraz Bishehsari, MD, PhD
8. Health literacy and health outcomes in children with asthma. Paula Jo Belice, MD, 2015.
9. Characterization of metal alloys on hip replacement implants, Robin Pourzal, PhD, 2015.
10. Contingent cocaine and HIV proteins: sex influences on brain and behavior pathology. Celeste Napier, PhD, 2015.
11. Understanding protein expressions in methamphetamine regulatory processes. Amanda Pearson, PhD, 2015.
12. Epidermal growth factor receptor in breast cancer bone metastasis. Manish Tandon, PhD, 2015.
13. Validation of an EHR Algorithm to Identify Adult and Pediatric Patients with Asthma in west Chicago. Christopher Codispoti, MD, 2015.
14. Evaluation of pain, dyspnea, and goals of care among adults with cystic fibrosis: a comprehensive palliative care survey. Elaine Chen, MD, 2015.
15. Capsulotomy Size in Hip Specimens Has a Dose-Dependent Effect on Hip Joint Stability. Alejandro Espinoza Orias, PhD, 2015.
16. Pediatric-onset discoid lupus: natural history and risk factors for evolution to systemic disease. Lisa Arkin, MD, 2015.
17. Implicit association task and on sleep attitudes. Megan Crawford, MD, 2015.
18. Validate and evaluate the communication complexity scale (CCS) for individuals with fragile X syndrome. Anne Hoffman, PhD, 2015.
19. Role of microbiome alters the ability of inflammatory cells to function in HIV-infected patients. Edward Barker, MD, 2015.
20. Examine the relationship of immune markers with viral cerebrospinal fluid and plasma. Maureen Richards, PhD, 2015.
21. Coronary artery calcium and chest CT in cardio-oncologic patients. Tochukwu Okwuosa, MD, 2015.
22. Provide the kinetics of viremia and viruria in patients with relapse. Lauren Wiebe, MD, 2015.
23. Data analysis for educational resource for improvement in medical student development. Sharon Sholiton, MD, 2014.
24. A two-arm stratified random sample for assessing cognitive impairment. Mary Ellen Stoykov, PhD, 2014.
25. Evaluate the efficacy and safety of Metformin, an inhibitor of (AMPK) added to standard chemo-immunotherapy for the treatment of aggressive B-Cell non-Hodgkin Lymphomas. Reem Karmali, MD, 2014.
26. Neuron spikes in rats with HIV genotype and cocaine use. Wesley Wayman, PhD, 2014.
27. Vaccinations and resident interventions project. Josune Iglesius, MD, 2014

28. Role of transition clinics on reducing general medicine unit readmissions. Vidya Chakravarthy, MS, 2014.
29. Posttraumatic growth and resource loss predict greater distress amidst war and terrorism, Alyson Zalta, PhD, 2014
30. Imaging acquisition and procedure protocol to assess tumor angiogenesis. Mark Supanich, PhD, 2014
31. Pre-operative Lower Extremity Gait Correlations in Femoroacetabular Impingement Morphology: An Exploratory Study. Alejandro A. Espinoza Orías, PhD, 2014.
32. Study design for new educational resource for improvement in medical student development. Sharon Sholiton, MD, 2013.
33. Survival rates in patients with esophageal cancer. Department of Surgery, Ryan Knoper, MD.
34. Statistical support for NIMH career development award. Department of Behavioral Sciences, Natalie Stevens, PhD, 2013.
35. Statistical support for NIMH career development award. Department of Behavioral Sciences, Alyson Zalta, PhD, 2013.
36. Worsened symptoms of pain in patients with elevated levels of CCL19 and MCP1, Justin Gain, MD, 2013.
37. Does fluid bolus improve in-hospital morbidity for septic patients with out sepsis or shock? Micheal Marynowski, MD, 2013.
38. Natural history of patients with intracranial stenosis in the era of increased statin use. Shawna Cuttings, MD, 2013.
39. Retrospective review of diabetic foot infection algorithm. Jeffery Alexander, MD, 2013.
40. Primary Language Impairment (PLI) and interaction with general cognition in bilingual families. Kerry Danahy Ebert, PhD, CCC-SLP, 2012.
41. Claire M. Fagin 2013 Fellowship Application in Nursing. Fawn Cothran, PhD , 2012.
42. Common Errors in using analgesics in a hospice setting. Masako Mayahara, RN, PhD, 2012.
43. Role of IL-8 gene expression on human intervertebral disc pathophysiology. YeJia Yang, PhD, 2012.
44. Neural and Behavioral Outcomes of Social Skills Groups for Children with Autism Spectrum Disorders. Latha Soorya, PhD, 2012.
45. Relationship of vascular infarcts and Lactic acid in stroke patients. Katharina Busl, MD, 2012.
46. Impact of aging on a monocyte-derived dendritic cell subset to activate vaccine-specific T cells. Carl Ruby, MD, 2012.
47. Colonization and Infection in Children with Multi-Drug Resistant Gram-Negative Bacteria: A Comparative Study of Taxonomy, Risk Factors, and Outcomes. Latania Logan, MD, 2012.
48. A randomized clinical trial to compare clinical and biomechanical outcomes between traditional and minimally invasive transforaminal lumbar interbody fusion for the management of degenerative spinal stenosis and spondylolisthesis. Alejandro A Espinoza Orias, PhD, 2012.

49. Association of PFDI, PISQ, symbol digits and digit span with demographic variables. Tondalaya Gamble, PhD, 2012.
50. Does a simulation Module Educational Intervention Improve Physician Compliance and Reduce Patient Mortality in Severe Sepsis and Septic Shock? John Bailitz, MD, 2012.
51. Rate of re-infection higher among those who do not follow antibiotic protocols. Lauren Smith, MD, 2012.
52. Relationship of adenomas detection rate with non-advanced detection rates. Michael Greenspan, MD, 2012.
53. A randomized clinical trial to compare clinical and biomechanical outcomes between traditional and minimally invasive transforaminal lumbar interbody fusion for the management of degenerative spinal stenosis and spondylolisthesis. Alenjandro A Espinoza Orias, PhD, 2012.
54. Study the variation in POC glucose using retrospective studies of patients in ICE. Sirimon Reutkal, MD, 2012.
55. Reliability of the visual synovitis scoring system. Carla Scanzello, MD, 2011.
56. DNA Methylation patterns in blood of patients with colorectal cancer and adenomatous colorectal polyps. Joshua Melson, MD, 2011.
57. Does training children with hearing loss to be more fluent with uncommon phonological forms improve word learning? Derek Stiles, PhD, 2011.
58. Colonization and infection in children with multi-drug resistant gram-negative bacteria: A comparative study of taxonomy, risk factors, and outcomes. Latania Logan, MD, 2011.
59. Comparison of personality scores by the endoscopist on hyperplastic adenoma detection. Garth Swanson, MD, 2011.
60. Outcomes Following TACE for HCC in US Veterans. Sheila Eswaran, MD, 2011.
61. Cell therapy for the degenerating intervertebral disc. Yejia Zhang, MD, PhD, 2011.
62. Endoscopist adenoma detection rates. Joshua Melson, MD, 2011.
63. Balance disorders in FMR1 premutation carriers. Joan A. O'keefe, PT, PhD, 2011.
64. Multiple site validation of an ultrasound image rating scale. John Balitz, MD, 2011.
65. Understanding the gut leakiness using urinary and serum markers. Ali Keshavarzian, MD, 2011.
66. Perception of interrupted speech: the effects of two concurrent gating rates on the intelligibility of words and sentences, Valeriy Shafiro, Stanley Sheft, MD, 2011.
67. Renal Function and Virologic Suppression following Discontinuation of Tenofovir due to Nephrotoxicity. Mariam Aziz, MD, 2011.
68. Decreased adverse drug related effects in overall health delivery costs. Jisu Kim, MD, 2011.
69. Predictors of DCI among operative subarachnoid hemorrhage patients. Richard Temes, MD, 2011.
70. Role of fibronectin in human intervertebral disc pathophysiology. Yejia Yang, PhD, 2011.
71. Comparison of personality scores by the endoscopist on colonoscopy polyp detection rates. Garth Swanson, MD, 2011.

72. Sagittal plane hip motion reversals during walking are associated with disease severity and poorer function in subjects with hip osteoarthritis. Kharma Foucher, MD, 2011.
73. Investigation into the relationship between pain and patient characteristics with IL-15 and IL-7 in patients with early-stage knee osteoarthritis. Carla Scanzello, MD, 2011.
74. Relationship between synovial inflammation and two-year post-surgical outcomes in patients undergoing arthroscopic partial meniscectomy, Carla Scanzello, MD, 2011.
75. Prospective study of hospitalized patients in long-care facilities contracting KPC colonization. Mary Haden, MD, 2011.
76. Development of testing of psychometric properties of a lupus specific pattern reported outcome tool. Meenakshi Jolly, MD, 2011.
77. Epidemiology of inpatient ambulation to assessment potential improvement strategies for deep vein thrombosis, Jisu Kim, PhD, 2011.
78. DNA Methylation patterns in bloods of patients with colorectal cancer and adenomatous colorectal polyps, Joshua Melson MD, 2011.
79. A prospective assessment of CMV pathogenesis in solid organ transplant recipients, Aimee Hodowanec, 2011.
80. Speech intelligibility index and the pure tone average as predictors of lexical ability in children fit with hearing aids. Derek Stiles, 2011.
81. Is Moderate Red Wine Consumption Safe in Inactive Inflammatory Bowel Disease? Garth Swanson, MD, 2011.
82. Impact of Alginate-Entrapped Microspheres on Gut Microbiota and Lipid Metabolism Heather Rasmussen, PhD, 2011.
83. Patient safety, tolerability and efficacy of polyethylene glycol (PEG) 3350 (Miralax[®]) with dulcolax and Gatorade (MDG) in comparison to single dose PEG/ Ascorbic acid (AA) [MOVI prep[®]]; PEG-E [GoLyte[®]] and split dose PEG/AA. Michael Brown, MD, 2010.
84. Measuring the inflammatory environment in the knee joint following acute injury. Rachel Miller, PhD, 2010.
85. Role of fibronectin in intervertebral disc pathophysiology. Yeija Yhang, PhD, 2010.
86. Physical activity behaviors in caregivers. Caryn D. Etkin, PhD, MPH, 2010.
87. Efficacy and safety of a paired sedation and ventilator weaning protocol for mechanically ventilated patients in intensive care, Mark Yoder, MD, 2010.
88. Demonstrate the extent of the clinical and functional response to supplemental abductor training. Kharma Foucher, MD 2010.
89. Perception of interrupted speech: the effects of two concurrent gating rates on the intelligibility of words and sentences. Valeriy Shafiro, MD, 2010.
90. CDC Prevention Epi-Center Application. Kyle Popovich, MD, 2010.
91. Alginate-entrapped starch to promote gut health and treat constipation predominant irritable bowel syndrome. Ali Keshavarzian, MD, 2009.

92. Synovial inflammation in patients undergoing arthroscopic meniscectomy: Molecular characterization and relationship with symptoms. Carla Scanzello, PhD, 2009.
93. Extra-nasal Colonization and Epidemiology of Community-Associated Methicillin-Resistant *Staphylococcus aureus*. Kyle Popovich, M.D., 2009.
94. The long-term clinical, functional, and biomechanical impact of the gait adaptations associated with end-stage hip osteoarthritis and total hip arthroplasty. Hee-Jeong Im Sampen, PhD, 2009.

Consulting Positions

1. Artistic aging: How the arts support older adult's health and wellbeing. National Endowment for Arts. Washington DC, 2016.
2. Audit summary report for Arts innovation and management (AIM). DeVos Institute of Arts Management, University of Maryland, 2015.
3. The relationship between live performing arts attendance and changes in the stress levels and cognitive ability of older adults. Rekha S. Rajan, Associate Professor, Division of Research & Doctoral Positions, Concordia University, River Forest, IL, 2015.
4. A 24-Month Practice-based Clinical Evaluation of a Low Shrinkage Composite in Posterior Restorations, End of Study Report. Thomas J. Hilton, DMD, MS, Alumni Centennial Professor in Operative Dentistry, Oregon Health & Science University, School of Dentistry, 2010.
5. A 24-Month Practice-based Clinical Evaluation of a Low Shrinkage Composite in Posterior Restorations, First Annual Report. Thomas J. Hilton, DMD, MS, Alumni Centennial Professor in Operative Dentistry, Oregon Health & Science University, School of Dentistry, 2009.
6. Psychological assessment and cognitive behavioral therapy for children with divorced parents. Christina Diamonti, Psy.D, Department of Psychology, Argosy University, Seattle, 2008.
7. Lexical Effects in Early Phonological Acquisition. Anna V. Sosa, Ph.D. Candidate, Department of Speech and Hearing, University of Washington, Seattle, 2007.

COMMITTEE AND ADMINISTRATIVE SERVICES

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| 2026 | Rush University Department of Internal Medicine Chair Search Committee |
| 2026 | Rush University Dean's Research Council |
| 2026 | Rush University Leader of the Funding Strategy and Metrics Working Group |
| 2026 | Rush University Research Strategy Committee |
| 2025 | Rush University and Department of Medicine Federal Funding Policy Committee |
| 2024 | Rush University and Department of Medicine Research Faculty Compensation Committee. |
| 2024 | Rush IRB and Office of Research Affairs. Improving Efficiency and Reporting Committee. |
| 2023 | Rush University President Search Committee. |
| 2019 | Alzheimer's disease center Data & Statistics Management Core, UC Davis. |
| 2020 | Alzheimer's disease center Data & Statistics Management Core, UC Davis. |
| 2019 | Alzheimer's Disease Center Measurement and Research Committee. |

- 2020 Alzheimer's Disease Center Measurement and Research Committee.
- 2018 Program Chair for the 9th Annual Symposium for the Alzheimer's Disease Center Research Symposium, 2018.
- 2019 Graduate studies faculty review and evaluation committee, University of California at Davis, 2019.
- 2018 Graduate Group in Biostatistics, Epidemiology, and Public Health, 2018.
- 2015 Statistical methods conference on aging and dementia. National Alzheimer's Association Coordinating Center (NAACC). Program and Organizing Committee, 2015.

COMMITTEE AND ADMINISTRATIVE SERVICES

- 2026 Rush Dean's Council Committee Meeting. TrialLens – Using AI for Clinical Trial Evidence.
- 2026 Research Strategic Planning Committee. Funding Strategy Workgroup Chair

Data Safety Monitoring and Steering Committees

1. Vitamin D and Alzheimer's disease risk. Safety and efficacy randomized clinical trial. UC Davis, 2020.
2. Alcohol induced disruption in circadian rhythms, Rush University, 2011-2018.
3. Telephone resources and assistance for caregiver study, Rush University, 2009-2013
4. Caregivers' skill-building study, Rush University, 2009-2012
5. Physical activity and total health study, Fred Hutchinson Cancer Res. Center, 2001-2003

COMMUNITY OUTREACH

- 2003 Design of clinical studies for cancer prevention research, Ferndale High School, WA
2018 Brains to Classroom Program. 3rd grade, Stone Ridge Elementary School, Roseville, CA
- 2023 Meeting with Kaye Friberg, East Side-Vodak Library (CPL), East Side-Vodak, Chicago, IL
2023 "Understanding Dementia" Presentation, East Side-Vodak Library (CPL), Chicago, IL
2023 Brain Health, Pullman Library (CPL), Pullman, Chicago, IL
2023 Brain Health, Pullman Library Talk (CPL), Pullman, Chicago, IL
2023 Meeting with Alderman Peter Chico, 10th Ward Alderman Peter Chico's Office, Chicago, IL
2023 U.S. POINTER Study, East Side-Vodak Library (CPL), East Side-Vodak, Chicago, IL
2023 Community Advisory Board Discussion, Chicago, IL
- 2024 Meeting with Alderman Peter Chico, 10th Ward Alderman Peter Chico's Office, Chicago, IL
2024 Presentation on "Successful Aging", Senior Suites of Hegewisch, Senior Suites, Chicago, IL
2024 Cognitive and Social Activity*, Pullman Library (CPL), Pullman, Chicago, IL
2024 CAB Discussion, Pompei Restaurant, Pompei Restaurant, Chicago, IL
2024 LatinX and Chicago programing, Zoom, Zoom, Chicago, IL
2024 Cognitive and Social Activity + Board Games, East Side-Vodak Library (CPL), Chicago, IL
2024 East Side Library Activity - Pilsen Mental Health, East Side-Vodak Library (CPL), Chicago, IL
2024 Healthy Aging - CHAP info, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
2024 Information Table, East Side Eats Festival, East Side, Chicago, IL
2024 Presentation on "Brain and Music", Wrightwood-Ashburn Library, Chicago, IL
2024 Presentation "The Art of Healthy Aging", Senior Suites of Hegewisch, Senior Suites, Chicago, IL
2024 Information Table, National Night Out-Police Commissioner, National Night Out, Chicago, IL
2024 Discussing CHAP on the East Side, CAB meeting lunch at Oak Lawn, CAB Oak, Chicago, IL
2024 Discussing CHAP on the East Side, AARP, Chicago Commons, Chicago, IL
2024 Presentation Adding Physical Act...., Vodak-East Side Branch, Vodak, Chicago, IL
2024 Presentation CHAP on the East Side, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
2024 Conference from AARP, Caminando Juntos, Chicago, IL
2024 Presentation in Spanish-Panel participant, Alzheimer's Association Conference, Alzheimer's Association, Chicago, IL
2024 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
2024 Presentation-"Improv", African International House, African International, Chicago, IL
2024 Presentation Spanish and English, Senior Sauites of Hegewisch, Senior Sauites, Chicago, IL
2024 Presentation-"Improv", African International House, African International, Chicago, IL
2024 Presentation-"Improv", African International House, African International, Chicago, IL
2024 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
2024 CHAP on the East Side, Senior's Christmas Lunch Party, Senior's Christmas, Chicago, IL

2024 Info table at Senior's meeting Expo, African International House, Chicago, IL
 2024 Presenting CHAP to this group, 21ST Ward Monthly TownHall, Chicago
 2024 Presentation on "Successful Aging", 22nd Police District Senior's Committee, Chicago
 2024 CHAP information/ presentation, African International House, Chicago
 2024 Introducing CHAP for seniors' group, African International House, Chicago
 2024 CHAP Conversation/Information, Afro Joe's Coffee and Tea, Chicago
 2024 Information Table-CHAP, Alderman Mosley-Woodson Library, Chicago
 2024 Discussion on CHAP and CAB, Alzheimer's Association, Chicago
 2024 Information Table, Apostolic Pentecostal Church Morgan Park, Chicago
 2024 CHAP Information/Table, Beverly Arts Center-19th Ward Breakfast, Chicago,
 2024 Discussing CHAP -19thWard-Senator Cunningham, Beverly Arts Center-Senior's meeting, Chicago
 2024 Presentation on Successful Aging, Beverly Branch Chicago Library, Chicago
 2024 Information Table, Beverly Unitarian Church, Chicago
 2024 Information Table, Beverly Unitarian Church, Chicago
 2024 Information Table, Beverly Unitarian Church, Chicago
 2024 Info Table, Beverly Unitarian Church, Chicago
 2024 Information Table, Beverly Unitarian Church, Chicago
 2024 Presentation on Successful Aging, Bookie's Paperback and More, Chicago,
 2024 Presentation Successful Aging, Brainerd Branch Library, Chicago
 2024 Presentation on Alzheimer's Disease, Catholic Charities-Seniors St. Peter Claver, Chicago, IL
 2024 Information Table, East Side Festival, Chicago, IL
 2024 Information Table, Evergreen Park Fire Department-Senior Fair, Chicago, IL
 2024 Presentation on Successful Aging, Greencastle of Morgan Park & Beverly, Chicago, IL
 2024 Presentation on Getting Better with Age, Greencastle of Morgan Park & Beverly, Chicago, IL
 2024 Presentation-Getting Healthy as we Age, Greencastle of Morgan Park & Beverly, Chicago, IL
 2024 Presentation-Memories and Life Lessons ..., Greencastle of Morgan Park & Beverly, Chicago, IL
 2024 CHAP for Women of the Castle dinner, Home of Odella Hampton's in Beverly, Chicago, IL
 2024 Discussing CHAP in the 21st Ward, July Townhall with Alderman Mosley, Chicago, IL
 2024 Introducing RIHA and CHAP, Meeting Alderman Matt O'Shea19th Ward, Chicago, IL
 2024 CHAP discussion/collaboration-21st Ward, Meeting Alderman Mosley, Chicago, IL
 2024 Information Table, Morgan Park Presbyterian Church, Chicago, IL
 2024 Info Table, Morgan Park United Methodist Food Pantry, Chicago, IL
 2024 Information Table, Mount Greenwood Food Pantry, Chicago, IL
 2024 Presentation on "Successful Aging"/Healthy Brain, Mt. Greenwood Library, Chicago, IL
 2024 Info Table CHAP, National Night Out-Police Community Part., Chicago, IL
 2024 Presentation on "Successful Aging", Orchard Place of Morgan, Chicago, IL
 2024 Presentation on "Getting Better With Age", Orchard Place of Morgan Park & Beverly, Chicago, IL
 2024 Presentation-Getting Healthy as we Age, Orchard Place of Morgan Park & Beverly, Chicago, IL
 2024 Presentation-Memories and Life Lessons ..., Orchard Place of Morgan Park & Beverly, Chicago, IL
 2024 "Getting Better With Age", Presentation in Hegewisch, Chicago, IL
 2024 Presentation Brain Health/Cognitive Activity, Pullman Library, Chicago, IL
 2024 CHAP information Q&A, Ridge Historical Society-Spring Bonnet Tea, Chicago, IL
 2024 Presentation on "Successful Aging", Rush Institute for Healthy Aging, Chicago, IL
 2024 Presentation "Successful Aging", Saint Christina Parish Center-Mt.Greenwood, Chicago, IL
 2024 Presentation "Successful Aging", Saint George's Church-Parish Center, Chicago, IL
 2024 Presentation on "Successful Aging", Saint Peter Claver Senior Living, Chicago, IL
 2024 Presentation "Getting Better With Age", Senior Suites Washington Heights, Chicago, IL
 2024 Presentation on "The Art of Healthy Aging", Senior Suites of Hegewisch, Chicago, IL

2024 Presentation on "Getting Better With Age", Senior Suites of St. Peter Claver, Chicago, IL
 2024 Presentation on "Successful Aging", Senior Suites of Washington Heights, Chicago, IL
 2024 Presentation on Alzheimer's and Dementia plus CHAP-"Successful Aging", Senior Suites of Washington Heights, Chicago, IL
 2024 Presentation on " Stress", Senior Suites of Washington Heights, Chicago, IL
 2024 Presentation on "Alzheimer's Disease", Senior Suites of Washington Heights, Chicago, IL
 2024 Presentation "The Art of Healthy Aging", Senior Suites of Washington Heights, Chicago, IL
 2024 Presentation-Memories/Life Lessons as we Age, Senior Suites of Washington Heights, Chicago, IL
 2024 Introducing and discussing CHAP, Senior's Lunch Alderman O'Shea, Chicago, IL
 2024 Presentation-Memories/Life Lessons as we Age, Seniors Catholic Charities, Chicago, IL
 2024 Information Table Senior's Health and CHAP, Town Hall Meeting 21st Ward, Chicago, IL
 2024 Presentation "Successful Aging", Undercover Books, Chicago, IL
 2024 Information Table, Woodson Library Regional Community, Chicago, IL
 2024 Community Share-out and Q & A, Woodson Library Regional Community, Chicago, IL
 2024 Presentation "Brain Health as You Age", Wrightwood-Ashburn Library, Chicago, IL
 2024 Presentation on "Brain and Music", Wrightwood-Ashburn Library, Chicago, IL

 2025 Senior Meeting at Black Excellence Speaks, Alderman Mosley-3rd Baptist Church, Chicago, IL
 2025 Presentation-Myths and Facts as we Age, Catholic Charities-Seniors St. Peter Claver, Chicago, IL
 2025 Health Fair planning meeting for CHAP, Evergreen Park Fire House, Chicago, IL
 2025 Health Fair planning meeting for CHAP, Evergreen Park Fire House, Chicago, IL
 2025 Presentation- Heart, Greencastle of Morgan Park & Beverly, Chicago, IL
 2025 Presentation -Five Myths about Aging, Greencastle of Morgan Park & Beverly, Chicago, IL
 2025 Presentation-Alzheimer's Month-September, Greencastle of Morgan Park & Beverly, Chicago, IL
 2025 Presentation, Greencastle of Morgan Park & Beverly, Chicago, IL
 2025 Presentation - Heart, Orchard Place of Morgan Park & Beverly, Chicago, IL
 2025 Presentation-Alzheimer's Month-September, Orchard Place of Morgan Park & Beverly, Chicago
 2025 Presentation, Orchard Place of Morgan Park & Beverly, Chicago, IL
 2025 Presentation, Orchard Place of Morgan Park & Beverly, Chicago, IL
 2025 Presentation -Five Myths about Aging, Orchard Place of Morgan Park and Beverly, Chicago, IL
 2025 Presentation-Seniors safety during winter..., Senior Suites of Washington Heights, Chicago, IL
 2025 Presentation Alzheimer's Disease and Dementia, Senior Suites of Washington Heights, Chicago
 2025 Presentation World Health Month, Senior Suites of Washington Heights, Chicago, IL
 2025 Presentation-Heart Month, Senior Suites of Washington Heights, Chicago, IL
 2025 The Impact of Senior Citizens on Society, Senior Suites of Washington Heights, Chicago, IL
 2025 Presentation, Senior Suites of Washington Heights, Chicago, IL
 2025 Presentation, Senior Suites of Washington Heights, Chicago, IL
 2025 Information Table CHAP, Senior's Health Fair-Fire Department, Chicago, IL
 2025 Presentation-Myths or Facts as we Age, Senior's Meeting at St. Christina Parish, Chicago, IL
 2025 Reminding Seniors about CHAP, Town Hall Senior MonthlyMeeting 21st Ward, Chicago, IL
 2025 Presentation and Information Table, Town Hall Senior MonthlyMeeting 21st Ward, Chicago, IL
 2025 Discussing CHAP in Beverly Area, Women of the Castle-Bev.Unit.Church, Chicago, IL
 2025 Don't forget CHAP-Seniors dinner, Women of the Castle-Bev.Unit. Church, Chicago, IL
 2025 Presentation-Soc.Act.& Brain Health, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Discussing CHAP presentation/2025, African International House, Chicago, IL
 2025 Presentation-Know your numbers, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Presentation-Take care of your Heart..., Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation for Seniors-for East Side, District 7th-Senior Liaison, District 7th, Chicago, IL

2025 Presentation in Spanish, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Discussing Programs for seniors, Chicago Park District, Chicago Park, Chicago, IL
 2025 Presentation-World Health Month, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation-World Health Month, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Outreaching for CHAP, Opening Day Parade-East Side, Opening Day Parade, Chicago, IL
 2025 Discussing Programs for seniors, Rosenwald Court, Rosenwald Court, Chicago, IL
 2025 Discussing Programs for seniors, Fred C. Matthews, Fred C., Chicago, IL
 2025 Discussing Programs for seniors, Trinity Acres, Trinity Acres, Chicago, IL
 2025 Discussing Programs for seniors, Oakwood Shores, Oakwood Shores, Chicago, IL
 2025 Discussing Programs for seniors, Paul G. Stewart, Paul G., Chicago, IL
 2025 Presentation-The Battle of Sugar, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Discussing Programs for seniors, Gail Paty, Gail Paty, Chicago, IL
 2025 Presentation-Heart, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Presentation-Improv for seniors, Emil Jones Senior Suites, Emil Jones, Chicago, IL
 2025 Presentation-Improv for seniors, Distrcit 5 Police Station, Distrcit Police, Chicago, IL
 2025 Discussing Programs for seniors, Chicago Park District, Chicago Park, Chicago, IL
 2025 Presentation-, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation -Alzheimer's & Dementia, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation for Seniors, 5th District-Chicago Police Dept., 5th District, Chicago, IL
 2025 Presentation for Seniors, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Information table, Hegewisch Festival 2025, Hegewisch Festival, Chicago, IL
 2025 Interview-LatinX- for the East Side, L.A.Care, L.A.Care, Chicago, IL
 2025 National Night Out-4:00 to 8:00PM, Alderman Chico & Police Department, Chicago, IL
 2025 Presentation, Vodak-Library-East Side, Vodak, Chicago, IL
 2025 Presentation, Vodak-Library-East Side, Vodak, Chicago, IL
 2025 Presentation Myths or Facts as you Age, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Information Table, Breast Cancer-Hope in Action, Breast Cancer, Chicago, IL
 2025 Presentation Hispanic Heritage Month, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Presentation, Senior Suites of Hegewisch, Senior Suites, Chicago, IL
 2025 Presentation, Vodak Library-East Side, Vodak, Chicago, IL
 2025 Information Table, Alderman Chico Christmas Lunch, Alderman Chico, Chicago, IL
 2025 Presentation, Senior Suites of Hegewisch, Senior Suites, Chicago, IL

COMPANY FOUNDER

- 2019 Founder & CEO, ADAPT Software and Data Services LLC
- a. ADAPT – Automated Data Assessment and Processing Software Tool
 - b. AVA – AI-powered Visualization and Analytics Application
 - i. Powered by Axiom 2.2 proprietary LLM