

# Erin L. Abner, PhD, MPH

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Neuroepidemiology, health inequities, Alzheimer's disease, cerebrovascular disease, multi-etiology dementia, clinical trials, longitudinal data analysis, aging, subjective cognitive decline, cognitive decline and comorbidities, clinicopathological correlation

## EDUCATION

### University of Kentucky, Lexington, KY

2013	PhD, Epidemiology and Biostatistics
2006	MPH, Concentration: Biostatistics
2002	MA, English; Graduate Certificate in Women's Studies
1999	BA, English; Second Major: Philosophy; Minor: Women's Studies

## PROFESSIONAL EXPERIENCE

2022-	Professor, Departments of Epidemiology and Environmental Health and Biostatistics, College of Public Health; and Sanders-Brown Center on Aging, University of Kentucky
2018-2022	Associate Professor, Departments of Epidemiology and Biostatistics, College of Public Health, and Sanders-Brown Center on Aging; University of Kentucky
2013-2018	Assistant Professor; Departments of Epidemiology and Biostatistics, College of Public Health, and Sanders-Brown Center on Aging; University of Kentucky
2012-2013	Statistician, Principal; Sanders-Brown Center on Aging; University of Kentucky
2008-2012	Statistician, Sr.; Sanders-Brown Center on Aging; University of Kentucky
2006-2008	Data Management Specialist; Sanders-Brown Center on Aging; University of Kentucky
2005-2006	Research Assistant; Center for Prevention Research; College of Public Health; University of Kentucky
2004-2006	Research Assistant; Graduate Center for Gerontology, College of Public Health; University of Kentucky
2002-2004	Data Coordinator, College of Communications; University of Kentucky

## PUBLICATIONS AND PRESENTATIONS

### *Peer-Reviewed Articles (154; underlined authors are student trainees)*

1. Ighodaro ET, Shahidehpour RK, Bachstetter AD, **Abner EL**, Fardo DW, Nelson RS, Shih AY, Grant RI, Neltner JH, Schmitt FA, Jicha GA, Kryscio RJ, Wilcock DM, Van Eldik LJ, Nelson P. A neuropathologic feature of brain aging: multi-lumen vascular profiles. *Acta NP Communications* Accepted August 14, 2023. In press.

2. Gauthreaux K, Kukull WA, Nelson KB, Mock C, Chen Y-C, Chan, KCG, Fardo DW, Katsumata Y, **Abner EL**, Nelson PT. Different cohorts, disparate results: selection bias is a key factor in autopsy cohorts. *Alzheimer Dement*. Accepted July 28, 2023. In press.
3. Oyarzun Gonzalez X, Toro P, **Abner EL**, Ferreccio C. Prevalence and factors associated with subjective memory complaint in a semi-rural community in Chile. *Journal Alzheimer Disease*, Accepted July 31, 2023; In press.
4. Nelson RS, **Abner EL**, Jicha GA, Schmitt FA, Di J, Wilcock DM, Barber JM, Van Eldik LJ, Katsumata Y, Fardo DW, Nelson P. Neurodegenerative pathologies associated with behavioral and psychological symptoms of dementia in a community-based autopsy cohort. *Acta Neuropathol* Accepted April 30, 2023. In press.
5. Di J, Nelson RS, Jicha GA, Moga DC, Cykowski MD, Fardo DW, **Abner EL**, Nelson PT. Urinary incontinence in a community-based autopsy cohort is associated with limbic predominant age-related TDP-43 encephalopathy neuropathologic changes. *J Alz Dis* Accepted April 24, 2023. In press.
6. Estep TG, Charnigo RJ, **Abner EL**, Jicha GA, Sudduth TL, Fardo DW, Wilcock DM. Associations of potential ADRD plasma biomarkers in cognitively normal volunteers. *Alzheimer Dement* Epub ahead of print February 25, 2023. doi: 10.1002/alz.13000
7. Norrod PE, Sanderson WT, **Abner EL**, Seals J, Browning S. Farmer suicides among states reporting violent deaths, 2003-2017. *J Rural Mental Health* Epub ahead of print. doi.org/10.1037/rmh0000232
8. Smith NI, Martinez AI, Huffmeyer M, Eckmann L, George R, **Abner EL**, Jicha GA, Moga DC. Acceptability of patient-centered, multi-disciplinary medication therapy management recommendations: results from the INCREASE randomized study. *BMC Geriatrics* 2023;23:137. doi 10.1186/s12877-023-03876-4
9. Wu Y, **Abner EL**, Conley C, Smoot MK, Hosey R, Kaiser K, Lovell MA. Preliminary evaluation of a novel point of care diagnostic device for sports-related concussion. *Clin J Sport Med* 2022;32:623-6.
10. Oh GY, Moga DC, Fardo DW, **Abner EL**. The association of gabapentin initiation and neurocognitive changes in older adults with normal cognition. *Front Pharmacol* 2022;13:910719. doi: 10.3389/fphar.2022.910719 eCollection 2022.
11. Oh GY, Moga DC, **Abner EL**. Gabapentin utilization among older adults with different cognitive statuses enrolled in the National Alzheimer's Coordinating Center (2006-2019). *Br J Clin Pharmacol* 2022; doi 10.1111/bcp.15532. Online ahead of print.
12. Nelson PT, Brayne C, Flanagan ME, **Abner EL**, Agrawal S, Attems J, Castellani RJ, et al. Frequency of LATE neuropathologic change across the spectrum of Alzheimer's disease neuropathology: combined data from 13 community-based or population-based autopsy cohorts. *Acta Neuropathol* Accepted May 23, 2022. In press.
13. Winder Z, Sudduth TL, Anderson S, Patel E, Neltner J, Martin BJ, Snyder KE, **Abner EL**, Jicha GA, Nelson PT, Wilcock DM. Examining the association between blood-based biomarkers and human postmortem neuropathology in the University of Kentucky Alzheimer's Disease Research Center autopsy cohort. *Alzheimers Dement*. 2022 Mar 10. doi: 10.1002/alz.12639. Epub ahead of print. PMID: 35266629.
14. Moga DC, **Abner EL**, Schmitt FA, Eckmann L, Huffmyer M, Martinez AI, Beech BF, George R, El Khouli R, Ali D, Jicha GA. Intervention for cognitive reserve enhancement in delaying the onset of Alzheimer's symptomatic expression (INCREASE) study: Results from a randomized controlled study of medication therapy management targeting a delay in prodromal dementia symptom progression. *JPAD* Accepted May 3, 2022. In press.
15. Karanth SD, Katsumata Y, Nelson PT, Fardo DW, McDowell JK, Schmitt FA, Kryscio RJ, Browning SR, Braithwaite D, Arnold SM, **Abner EL**. Cancer diagnosis is associated with

- a lower burden of dementia and less Alzheimer's-type neuropathology. *Brain* 2022 Jan 30:awac035. doi: 10.1093/brain/awac035. Epub ahead of print.
16. Cykowski MD, Arumanayagam AS, Powell SZ, Rivera AL, **Abner EL**, Roman GC, Masdeu JC, Nelson PT. Patterns of amygdala region pathology in LATE-NC: subtypes that differ with regard to TDP-43 histopathology, genetic risk factors, and comorbid pathologies. *Acta Neuropathol* Accepted March 26, 2022. In press.
  17. Rhodus EK, Barber J, Kryscio RJ, **Abner EL**, Bahrani AA, Shady Lewis KE, Carey B, Nelson PT, Van Eldik LJ, Jicha GA. Frontotemporal neurofibrillary tangles and cerebrovascular lesions are associated with autism spectrum behaviors in late-life dementia. *J Neurol* Accepted May 3, 2022. In press.
  18. Jicha GA, **Abner EL**, Arnold SE, Carillo MC, Dodge HH, Edland SD, Fargo KN, Feldman HH, Goldstein LB, Hendrix J, Peters R, Robillard JM, Schneider LS, Titiner JR, Weber CJ. Committee on High-quality Alzheimer's Disease Studies (CHADS) consensus report. *Alzheimers Dement* 2021;doi 10.1002/alz.12461 Epub ahead of print.
  19. Blevins BL, Vinters HV, Love S, Wilcock DM, Grinberg LT, Schneider JA, Kalaria RN, Katsumata Y, Gold BT, Wang DJJ, Ma SJ, Shade LMP, Fardo DW, Hartz AMS, Jicha GA, Nelson KB, Magaki SD, Schmitt FA, Teylan MA, Ighodaro ET, Phe P, **Abner EL**, Cykowski MD, Van Eldik LJ, Nelson PT. Brain arteriolosclerosis. *Acta Neuropathol* 2021;141(1):1-24.
  20. Bahrani AA, Smith CD, Barber J, Al-Janabi OM, Powell DK, Andersen AH, Ramey B, **Abner EL**, Winder Z, Gold BT, Wilcock DM, Jicha GA. Development of a protocol to assess regional longitudinal volumetric dynamic instability of white matter hyperintensity changes in aging and dementia. *J Neurosci Methods* Accepted June 21, 2021. In press.
  21. Peters R, Breitner J, James S, Jicha GA, Meyer P, Richards M, Smith AD, Yassine HN, **Abner E**, Hainsworth AH, Kehoe PG, Beckett N, Weber C, Anderson C, Anstey KJ, Dodge HH. Dementia risk reduction, why have the pharmacological risk reduction trials worked? An in-depth exploration of seven established risk factors. *Alzheimer Dement* 2021; 7(1):e12202.
  22. Franzen S, Smith JE, van den Berg E, Rivera Mindt M, van Bruchem-Visser RL, **Abner EL**, Schneider LS, Prins ND, Babulal GM, Papma JM. Diversity in Alzheimer's Disease drug trials: the importance of eligibility criteria. *Alzheimer Dement* 2021; doi 10.1002/alz.12461
  23. Karant S, Schmitt FA, Nelson PT, Katsumata Y, Kryscio RJ, Fardo DW, Harp JP, **Abner EL**. Four common late-life cognitive trajectory patterns associate with replicable underlying neuropathologies. *J Alzheimer Dis* 2021;82(2):647-59.
  24. Singleton J, **Abner EL**, Akpunonu PD, Kucharska-Newton A. Association of nonacute opioid use and cardiovascular diseases: A scoping review of the literature. *JAHA* Accepted April 27, 2021. In press. doi: 10.1161/JAHA.121.021260
  25. Sandusky-Beltran LA, Kovalenko A, Placides DS, Ratnasamy K, Ma C, Hunt Jr. JB, Liang H, Calahatian JIT, Michalski C, Fahnestock M, Blair LJ, Darling AL, Baker JD, Fontaine SN, Dickey CA, Gamsby JJ, Nash KR, **Abner E**, Selenica M-LB, Lee DC. Aberrant *AZIN2* and polyamine metabolism precipitates tau neuropathology. *J Clin Invest* 2021;131(4):e126299. <https://doi.org/10.1172/JCI126299>.
  26. Wang P, **Abner EL**, Fardo DW, Schmitt FA, Jicha GA, Van Eldik LJ, Kryscio RJ. Reduced rank multinomial logistic regression in Markov Chains with application to cognitive data. *Stat Med* Accepted February 3, 2021. In press.
  27. Strattan L, Britsch D, Calulot C, Maggard R, **Abner E**, Johnson L, and Alilain W. Novel influences of sex and *APOE* genotype on spinal plasticity and recovery of function after spinal cord injury. *eNeuro* Accepted January 22, 2021.
  28. Ly H, Verma N, Sharma S, Kotiya D, Despa S, **Abner EL**, Nelson PT, Jicha GA, Wilcock DM, Goldstein LB, Guerroiro R, Bras J, Hanson AJ, Craft S, Murray AJ, Biessels GJ,

- Troakes C, Zetterberg H, Hardy J, Lashley T, Despa F. The association of circulating amylin with  $\beta$ -amyloid in familial Alzheimer's disease. *Alzheimer Dement: Trans Res Clin Interventions* Accepted November 25, 2020. In press.
29. Jiang Y, Li J, Schmitt FA, Jicha GA, Munro NB, Zhao X, Smith CD, Kryscio RJ, **Abner EL**. Memory-related frontal brainwaves predict transition to mild cognitive impairment in healthy older individuals five years before diagnosis. *J Alzheimer Dis* Accepted 10.26.2020. In press.
  30. Rhodus EK, Bardach SH, **Abner EL**, Gibson A, Jicha GA. COVID-19 and geriatric clinical trials research. *Aging Clin Exp Res* 2020; doi:10.1007/s40520-020-01705-x
  31. Ding X, **Abner EL**, Schmitt FA, Crowley J, Goodman P, Kryscio RJ. Mental Component Score from Health-Related Quality of Life Predicts Incidence of Dementia in US Males. *Journal of Prevention of Alzheimer's Disease* Accepted August 24, 2020. In press.
  32. Karant S, Nelson PT, Katsumata Y, Kryscio RJ, Schmitt FA, Fardo DW, Cykowski MD, Van Eldik LJ, **Abner EL**. Prevalence and clinical phenotype of quadruple misfolded proteins in older adults. *JAMA Neurology* 2020; doi: 10.1001/jamaneurol.2020.1741 (Epub ahead of print).
  33. Robinson J, Porta S, Garrett F, Zhang P, Xie S, Suh E, van Deerlin V, **Abner E**, Jicha G, Barber J, Lee V, Lee E, Trojanowski J, Nelson P. Limbic-predominant age-related TDP-43 encephalopathy differs from frontotemporal lobar degeneration. *Brain* Accepted May 22, 2020. In press.
  34. Smith CD, Van Eldik LJ, Jicha GA, Schmitt FA, Nelson PT, **Abner EL**, Kryscio RJ, Murphy RR, Andersen AH. Brain structure changes over time in normal and mildly impaired aged persons. *AIMS Neuroscience* 2020; 7:120-135.
  35. Mashni SK, O'Neal CR, **Abner E**, Lee J, Fraser JF. Time intervals for direct versus transfer cases of thrombectomy for stroke in a primarily rural system of care. *J Stroke Cerebrovasc Dis* 2020;29:104689.
  36. **Abner EL**, Elahi FM, Jicha GA, Mustapic M, Al-Janabi O, Kramer JH, Kapogiannis D, Goetzl EJ. Endothelial-derived plasma exosome proteins in Alzheimer's disease angiopathy. *FASEB*; accepted March 2, 2020. In press.
  37. Martinez A, **Abner EL**, Jicha GA, Rigsby DN, Eckmann LC, Huffmyer MJ, Moga DC. One-year evaluation of a targeted medication therapy management intervention for older adults. *Journal of Managed Care & Specialty Pharmacy*; accepted December 18, 2019. In press.
  38. Moga DC, Beech B, **Abner E**, Schmitt D, El Khouli R, Martinez A, Eckmann L, Huffmyer M, George R, Jicha G. INtervention for Cognitive Reserve Enhancement in delaying the onset of Alzheimer's Symptomatic Expression (INCREASE), a Randomized Controlled Trial: Rationale, Study Design, and Protocol. *Trials*; accepted December 12, 2019. In press.
  39. Oyarzún-González X, Ferreccio C, **Abner EL**, Vargas C, Huidobro A, Toro P. Polypharmacy in a semi-rural community in Chile: results from Maule Cohort. *Pharmacoepidemiology and Drug Safety* 2019; doi: 10.1002/pds.4941 [Epub ahead of print].
  40. Katsumata Y, Fardo DW, Bachstetter AD, Artiushin SC, Wang W-X, Wei A, Brezinski LJ, Nelson BG, Huang Q, **Abner EL**, Anderson S, Patel I, Shaw BC, Price DA, Niedowicz DM, Wilcock D, Jicha GA, Neltner JH, Estus S, Van Eldik LJ, Nelson PT. Alzheimer disease-pathology-associated polymorphism in a complex variable number of tandem repeat region within the MUC6 gene, near the AP2A1 gene. *JNEN* 2020;79:3-21. doi: 10.1093/jnen/nlz116
  41. Bahrani AA, Al-Janabi OM, **Abner EL**, Bardach SH, Kryscio RJ, Wilcock DM, Smith CD, Jicha GA. Post-acquisition processes confounds in brain volumetric quantification of white matter hyperintensities. *J Neurosci Methods* Accepted August 10, 2019. In press.

42. Rhodus EK, Barber J, **Abner EL**, Duff DMC, Bardach SH, Caban-Holt A, Lightner D, Rowles GD, Schmitt FA, Jicha GA. Behaviors characteristic of Autism spectrum disorder in a geriatric cohort with mild cognitive impairment or early dementia. *J Alz Dis Assoc Disorders*; accepted August 8, 2019.
43. Braun DJ, **Abner E**, Bakshi V, Goulding DS, Grau EM, Lin A-L, Norris CM, Sudduth TL, Webster SJ, Wilcock DM, Van Eldik LJ. Blood flow deficits and cerebrovascular changes in a dietary model of hyperhomocysteinemia. *ASN Neuro* 2019; doi: 10.1177/59091419865788
44. Kent S, Bardach SH, Zhang X, **Abner EL**, Grill JD, Jicha GA. Public understanding and opinions of genetic research for Alzheimer's disease. *Public Health Genomics* Accepted June 11, 2019. In press.
45. Yanckello LM, Young LEA, Hoffman JD, Mohny R, Keaton M, **Abner E**, Lin A-L. Caloric restriction alters postprandial responses of essential brain metabolites in young adult mice. *Frontiers Nutrition* accepted May 24, 2019. In press.
46. Bardach SH, Jicha GA, Karanth S, Zhang X, **Abner EL**. Genetic sample provision among National Alzheimer's Coordinating Center participants. *J Alzheimer Dis*; accepted Feb. 13, 2019.
47. Ding X, Charnigo RJ, Schmitt FA, Kryscio RJ, **Abner EL**. Evaluating trajectories of episodic memory in normal cognition and mild cognitive impairment: results from ADNI. *PLoS ONE* Accepted February 4, 2019.
48. Oh GY, **Abner EL**, Fardo DW, Freeman PR, Moga DC. Patterns and predictors of chronic opioid use in older adults: a retrospective study. *PLoS ONE* 2019;14(1): e0210341. doi: 10.1371/journal.pone.0210341
49. **Abner EL**, Nelson PT, Jicha GA, Cooper GE, Fardo DW, Schmitt FA, Kryscio RJ. Tobacco smoking and dementia in a Kentucky cohort: A competing risk analysis. *J Alzheimer Dis* 2019;68:625-33.
50. Helman AM, Siever M, McCarty KM, Lott IT, Doran E, **Abner E**, Schmitt FA, Head E. Microbleeds and cerebral amyloid angiopathy in the brains of people with Down syndrome and Alzheimer disease. *J Alzheimer Dis* 2019;67:103-112.
51. Lou W, **Abner EL**, Wan L, Fardo DW, Lipton R, Katz M, Kryscio RJ. Estimation of multi-state models with missing covariate values based on observed data likelihood. *Communications in Statistics*. Accepted August 29, 2018.
52. **Abner EL**, Neltner JH, Jicha GA, Patel E, Anderson S, Wilcock DM, Van Eldik LJ, Nelson PT. In aged human brains without detected neuritic amyloid plaques, the severity of NFT pathology, and APOE genotype, are each associated with non-neuritic A $\beta$  plaques. *J Alzheimer Dis* 2018;64:1307-1324.
53. Woolum JA, **Abner EL**, Kelly A, Thomson Bastin ML, Morris PE, Flannery AH. Effect of thiamine administration on lactate clearance and mortality in patients with septic shock. *Critical Care Medicine* 2018; accepted June 2, 2018. In press.
54. Hartz AM, Zhong Y, Shen A, **Abner E**, Bauer B. Preventing P-gp ubiquitination lowers A $\beta$  brain levels in an Alzheimer's disease mouse model. *Frontiers in Aging Neuroscience* 2018; accepted June 5, 2018. In press.
55. Rempe RG, Hartz AMS, Soldner ELB, Sokola BS, Alluri SR, **Abner EL**, Kryscio RJ, Rekec A, Schlichtiger J, Bauer B. Matrix metalloproteinase-mediated blood-brain barrier dysfunction in epilepsy. *J Neurosci* 2018; Epub ahead of print. doi: 10.1523/JNEUROSCI.2751-17.2018
56. Richards AG, Tietyen AC, Jicha GA, Bardach SH, Schmitt FA, Fardo DW, Kryscio RJ, **Abner EL**. Visual arts education improves self-esteem for persons with dementia and reduces caregiver burden. *Dementia* 2018; Epub ahead of print. doi: 10.1177/147130218769071

57. Goetzl EJ, Schwartz JB, **Abner EL**, Jicha GA, Kapogiannis D. High complement levels in astrocyte-derived exosomes of Alzheimer's disease. *Annals of Neurology* 2018; 83:544-52.
58. Bradley-Whitman MA, Roberts KN, **Abner EL**, Scheff SW, Lynn BC, Lovell MA. A novel method for the rapid detection of post-translationally modified visinin-like protein 1 in rat models of brain injury. *Brain Injury* 2018; 32:363-80.
59. Pruzin JJ, Nelson PT, **Abner EL**, Arvanitakis Z. Relationship of type 2 diabetes to human brain pathology. *Neuropathology and Applied Neurobiology* 2018; Epub ahead of print. doi: 10.1111/nan.12476
60. Al-Janabi OM, Panuganti P, **Abner EL**, Bahrani AA, Murphy R, Bardach SH, Caban-Holt A, Nelson PT, Gold BT, Smith CD, Wilcock DM, Jicha GA. Global cerebral atrophy detected by routine imaging: Relationship with age, hippocampal atrophy, and white matter hyperintensities. *J Neuroimaging* Accepted December 11, 2017. In press.
61. Goetzl EJ, **Abner EL**, Jicha GA, Kapogiannis D, Schwartz JB. Declining levels of functionally specialized synaptic proteins in plasma neuronal exosomes with progression of Alzheimer's disease. *The FASEB* Accepted October 8, 2017. In press.
62. Nelson PT, **Abner EL**, Patel E, Anderson S, Wilcock DW, Kryscio RJ, Van Eldik LJ, Jicha GA, Gal Z, Nelson RS, Nelson BG, Gal J, Azam MT, Fardo DW, Cykowski MD. The amygdala as a locus of pathologic misfolding in neurodegenerative diseases. *JNEN* 2018; 77:2-20.
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64. Ighodaro ET, Nelson PT, Kukull WA, Schmitt FA, **Abner EL**, Caban-Holt A, Bardach SH, Hord DC, Glover CM, Jicha GA, Van Eldik LJ, Byrd AX, Fernander A. Challenges and considerations related to studying dementia in African Americans. *J Alzheimer Dis* 2017 Jul 19. doi: 10.3233/JAD-170242. Epub ahead of print.
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66. Goetzl EJ, Schwartz JB, Mustapic M, Lobach IV, Daneman R, **Abner EL**, Jicha GA. Altered cargo proteins of human plasma endothelial cell-derived exosomes in atherosclerotic cerebrovascular disease. *The FASEB Journal* 2017;31:3689-3694.
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68. Smith VD, Bachstetter AD, Ighodaro E, Roberts K, **Abner EL**, Fardo DW, Nelson PT. Overlapping but distinct TDP-43 and tau pathologic patterns in aged hippocampi. *Brain Pathol* 2017;doi: 10.1111/bpa.12505. Epub ahead of print.
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70. Moga DC, **Abner EL**, Wu Q, Jicha GA. Bladder antimuscarinics and cognitive decline in elderly patients. *Alzheimer's & Dementia: Translational Research and Clinical Interventions* 2017;3:139-148.
71. Zhang X, Schmitt FA, Caban-Holt AM, Ding X, Kryscio RJ, **Abner E**. Diabetes mitigates the role of memory complaint in predicting dementia risk: Results from the Prevention of Alzheimer's Disease with Vitamin E and Selenium Study. *Journal of Prevention of Alzheimer's Disease* 2017;4:143-148.

72. Bachstetter A, Ighodaro ET, Hassoun Y, Aldeiri D, Neltner JH, Patel E, **Abner EL**, Nelson PT. Rod-shaped microglia morphology is associated with aging in two human autopsy series. *Neurobiology of Aging* 2017;52:98-105.
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74. Ellison EM, **Abner EL**, Lovell MA. Multiregional analysis of global 5-methylcytosine and 5-hydroxymethylcytosine throughout the progression of Alzheimer's disease. *Journal of Neurochemistry* 2017;140:383-94.
75. Kryscio RJ, **Abner EL**, Caban-Holt A, Lovell M, Goodman P, Darke AK, Yee M, Crowley J, Schmitt FA. Association of antioxidant supplement use and dementia in the Prevention of Alzheimer's Disease by Vitamine E and Selenium Trial (PREADVISE). *JAMA Neurology* 2017;74:567-73.
76. Dodge HH, Zhu J, Woltjer R, Nelson PT, Bennett DA, Cairns NJ, Fardo DW, Kaye JA, Erten-Lyons D, Mattek N, Schneider JA, Silbert LC, Xiong C, Yu L, Schmitt FA, Kryscio RJ, **Abner EL**. Risk of incident clinical diagnosis of AD-type dementia attributable to pathology confirmed vascular disease. *Alzheimer's & Dementia* 2017;13:613-23.
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- Alzheimer's disease prevention trial. *Journal of the American Geriatrics Society*. 2016 Nov 1. doi:10.1111/jgs.14393.
86. Wolf A, Bauer B, **Abner EL**, Ashkenazy-Frolinger T, Hartz AM. A comprehensive behavioral test battery to assess learning and memory in 129S6/Tg2576 mice. *PLoS One*. 2016 Jan 25;11(1):e0147766. doi: 10.1371/journal.pone.0147733.
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106. **Abner E**, Kryscio RJ, Caban-Holt AM, Schmitt FA. Baseline subjective memory complaints associate with increased risk of incident dementia: the PREADVISE trial. *J Prev Alz Dis*. 2015;2(1):11-16.
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- with Lewy bodies. *Neurology* 2009;73(14):1127-1133.
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  148. Roberto AJ, Carlyle KE, Zimmerman RS, **Abner EL**, Cupp PK, & Hansen GL. The short-term effects of a computer-based pregnancy, STD, and HIV prevention intervention. *Communication Quarterly* 2008;56:29-48.
  149. Ramsey-Klawnsnik H, Teaster P, Mendiondo M, Marcum J, **Abner E**. Sexual predators who target elders: Findings from the first national study of sexual abuse in care facilities. *The Journal of Elder Abuse and Neglect*. 2008;20:353-376.
  150. Nelson PT, Jicha GA, Schmitt FA, Liu HL, Davis DG, Mendiondo MS, **Abner EL**, and Markesbery WR. Clinicopathological correlations in a large Alzheimer's Disease Center autopsy cohort: Neuritic plaques and neurofibrillary tangles 'do count' when staging disease severity. *JNEN* 2007;66(12):1136-46.
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### **Book Chapters**

1. Estep TG, Abner EL, Fleming ST. Randomized Clinical Trials. In: Fleming ST, ed. *Managerial Epidemiology: Cases and Concepts*. Washington, DC: Health Administration Press; 2020: 283-308.
2. Pruzin JJ, Nelson PT, **Abner EL**, Arvanitakis Z. Neuropathological insights into the link between type 2 diabetes and dementia. In: Srikanth V and Arvanitakis Z, eds. *Type 2 Diabetes and Dementia*. Cambridge, MA: Academic Press; 2018: 87-116.

### **Editorials**

1. Jicha G, **Abner E**. COVID-19 and the neurological disease therapeutic pipeline. *Nature Reviews Neurology* December 18, 2020. doi: 10.1038/s41582-02000445-w
2. Park DC, **Abner EL**. Amyloid deposits in the banks (of the superior temporal sulcus) yield a high return about memory futures. *Neurology*; 2020 Apr 7;94(14):603-604.
3. **Abner E**. Opinion—Can the brain be trained? *The Scientist*. March 23, 2015. <http://www.the-scientist.com/?articles.view/articleNo/42522/title/Opinion--Can-the-Brain-Be-Trained-/>
4. Moga D, **Abner E**, Brouwer E. Editorial: Dementia and 'obesity paradox' - is this for real or are we missing something? An epidemiologist's perspective. *J Am Med Dir Assoc* Jul 8 2014; Epub ahead of print.
5. **Abner EL**, Charnigo RJ, Kryscio RJ. Editorial: Markov chains and semi-Markov models in time-to-event analysis. *J Biomet Biostat* 2013; e001. doi: 10.4172/2155-6180.S1-e001.
6. Kryscio RJ, **Abner EL**. Editorial: Are Markov and semi-Markov models flexible enough for cognitive panel data? *J Biomet Biostat* 2013;4:e122. doi:10.4172/2155-6180.1000e122

### **Peer-Reviewed Podium Presentations**

#### **International**

1. **Abner EL**, Kryscio RJ, Schmitt FA, Fardo DW, Moga DC, Ighodaro ET, Jicha GA, Yu L, Dodge HH, Xiong C, Woltjer RL, Schneider JA, Cairns NJ, Bennett DA, Nelson PT. Outcomes after diagnosis of mild cognitive impairment in a large autopsy series. Paper presented at AD/PD 2017, March 30, 2017. Vienna, Austria.

#### **National**

1. **Abner EL**, Schmitt FA, Kryscio RJ. Outcomes from the Prevention of Alzheimer's Disease with Vitamin E and Selenium trial. Paper presented at Clinical Trials in Alzheimer's Disease annual meeting, December 9, 2016. San Diego, CA.
2. Ighodaro E, **Abner E**, Monsell S, Kukull W, Nelson P. Decoding the risk factors and cognitive consequences of a common vascular pathology: brain arteriolosclerosis. Paper presented at AAN annual meeting. April 18-25, 2015. Washington, DC.
3. Patrick R, **Abner E**, Nelson P, Jicha G. Seizures lower the pathologic threshold for the development of Mild Cognitive Impairment and early dementia in Alzheimer's disease. Oral communication presented at American Academy of Neurology Annual Meeting. April 30, 2014. Philadelphia, PA.
4. **Abner E**, Nelson P, Schmitt F, Browning S, Fardo D, Wan L, Jicha G, Cooper G, Smith C, Caban-Holt A, Van Eldik L, Kryscio R. "Self-reported head injury and risk of cognitive impairment and Alzheimer's-type pathology in a longitudinal Alzheimer's disease center cohort." Oral communication at Alzheimer's Association International Conference, Boston, MA. July 13-18, 2013.
5. **Abner EL**, Kryscio RJ, Caban-Holt A, Mathews M, Schmitt FA. "Baseline memory impairments associate with clinical impairments eight years later: Centralized follow-up in the PREADVISE trial." Oral communication at 6<sup>th</sup> annual Clinical Trials in Alzheimer's Disease Meeting, San Diego, CA. November 14-16, 2013.
6. **Abner EL**, Teaster PB, Mendiondo MS, Ramsey-Klawnsnik H, Cecil KA. Sexual abuse of institutionalized elders: Correlates of investigation. Paper presented at American Public Health Association Annual Meeting. 2006.

## ***Invited Presentations***

### **International**

1. **Abner EL.** "Rurality and clinical trials participation in the US." Invited presentation at Alzheimer's Association, Global Brain Health Institute, and International Society to Advance Alzheimer's Research and Treatment webinar, "Increasing sustained diversity in Alzheimer's disease clinical trials." May 23, 2022.

### **National**

1. **Abner EL.** "Causal inference in ADRD research". Invited presentation at Arizona ADRC. April 18, 2023.
2. **Abner EL.** "Public Health and Brain Health". Invited presentation at American Society for Neurochemistry. March 18, 2023. Lexington, KY.
3. **Abner EL.** "LATE-NC and multiple proteinopathy in a community-based cohort". Invited presentation at NIA LATE 2022. February 11, 2022. Webinar.
4. **Abner EL.** "Considerations for designing AD primary prevention trials." Invited presentation at National Academies of Sciences Board on Behavioral, Cognitive, and Sensory Sciences, October 11, 2019. Washington, DC.
5. **Abner EL.** "Outcomes after diagnosis of Mild Cognitive Impairment in a large autopsy series." Invited presentation at ROSMAP Investigators Meeting, Rush University Medical Center. May 5, 2017. Chicago, IL.
6. **Abner EL.** Self-reported memory complaints: Implications from a longitudinal cohort with autopsies. Invited presentation at Alzheimer's Disease Centers Directors' Meeting. October 11, 2014. Baltimore, MD.

### **Regional**

1. **Abner EL.** Invited speaker for University of North Carolina at Chapel Hill Cross-Cutting Conversation Cardiovascular (C4) Epidemiology Seminar, April 6, 2021. "Type 2 Diabetes and dementia: implications from autopsy studies."

### **Local**

1. **Abner EL.** "Get SMART: Clinicopathological correlation in studies of aging and cognition." Sanders-Brown Center on Aging Seminar Series, University of Kentucky. June 19, 2017.
2. **Abner EL.** "Prevention of Alzheimer's Disease by Vitamin E and Selenium: the PREADViSE trial." Markesbery Symposium on Aging and Dementia, University of Kentucky. November 21, 2015.
3. **Abner EL.** "Data management for research." Invited presentation for the Biostatistics, Epidemiology, and Research Design Core of the University of Kentucky CCTS. April 27, 2015.
4. **Abner EL.** "Data management for research." Invited presentation for the Biostatistics, Epidemiology, and Research Design Core of the University of Kentucky CCTS. April 28, 2014.

## **ADMINISTRATION**

Director of Graduate Studies, PhD in Epidemiology and Biostatistics (2023 - )

Director of Graduate Studies, Doctor of Public Health in Epidemiology (2014 - 2016)  
Director of Doctoral Studies, Doctor of Public Health (2016 - 2019)

## TEACHING

### Courses

F 2020, '21, '22	EPI 717: Introduction to Causal Inference
F 2018, '19	CPH 718-001: Special Topics: Introduction to Causal Inference
S 2016-'22	EPI 715, Research Methods in Biostatistics and Epidemiology
F 2015, '17, '21	CPH 786, Doctoral Seminar
S 2015, F 2017	CPH 712/910, Advanced Epidemiology
F 2014, '15	CPH 605, Introduction to Epidemiology
S 2014	CPH/GRN 618, Epidemiology of Aging
S 2007	Instructor, Department of Statistics, STA 200
1999-2002	Teaching Assistant, University of Kentucky Writing Program, ENG 101 & 102, English Composition I and II

### Guest Lectures

S 2021	PPH 7150, Chronic Disease Epidemiology: "Dementia Epidemiology" (Wright State University)
F 2019	CPH 310, Disease Detectives: "Epidemiology of Aging" CPH 712, Advanced Epidemiology: "Matched Case-Control Studies"
S 2019	CPH 310, Disease Detectives: "Epidemiology of Aging" CPH 712, Advanced Epidemiology: "Effect Measure Modification" CPH 712, Advanced Epidemiology: "Matched Case-Control Studies"
S 2018	CPH 310, Disease Detectives: "Epidemiology of Aging" CPH 712, Advanced Epidemiology: "Count Regression"
F 2017	CPH 310, Disease Detectives: "Epidemiology of Aging"
S 2017	CPH 310, Disease Detectives: "Epidemiology of Aging" CPH 647, Research Methods for Public Health: "Missing Data" CPH 647, Research Methods for Public Health: "Model Fitting" CPH 712, Advanced Epidemiology: "Case-Control Studies"
F 2016	CPH 605, Epidemiology: "Randomized Trials" CPH 310, Disease Detectives: "Epidemiology of Aging"
F 2015	ABT 201, Scientific Methods in Biotechnology: "Introduction to Epidemiology: Basic Science of Disease Prevention" CPH 310, Disease Detectives: "Epidemiology of Aging"
F 2013	EPI 715, Advanced Research Methods in Epidemiology and Biostatistics: "Spline Models: Introduction and Application"
S 2012, '13, '15, '18	CPH 711, Chronic Disease Epidemiology, "Dementia Epidemiology"

### Examination Prep Sessions

Jan. 2013, '14	Epidemiology review for Certification in Public Health Examination, College of Public Health
April 2017, '18, '19	Epidemiology review for DrPH Phase I examination, College of Public Health

### Student Mentoring

***Degree completed (N=48: 21 MPH, 22 PhD, 5 DrPH)***

## **Chair**

### ***MPH***

1. Rui Zhao, MPH, 2014. Department of Epidemiology, College of Public Health. Capstone: Agreement between self-report health conditions and medications in the National Alzheimer's Coordinating Center database. Service: January 2014 – December 2014.
2. Kingsley Uzodinma, MPH, 2016. Department of Epidemiology, College of Public Health. Capstone: Cohort effects in established Alzheimer's disease risk factors. Service: September 2015 – May 2016.
3. Gabriella Hodges, MPH, 2017. Department of Epidemiology, College of Public Health. Capstone: Rural-Urban differences in diabetes prevalence. Service: September 2015 – May 2017.
4. Kailyn Conner, MPH, 2017. Department of Epidemiology, College of Public Health. Capstone: Diabetes and menstrual cycles: results from the Kentucky Women's Health Registry. Service: September 2016 – May 2017.
5. Yvonne Egbudin, MPH, 2018. Department of Epidemiology, College of Public Health. Capstone: Antihypertensive prescribing and hospital readmission and mortality among patients with congestive heart failure. Service: September 2017 – July 2018.

### ***PhD***

1. Xiuhua Ding, PhD, 2016. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Modeling dementia risk and cognitive change in longitudinal studies. Service: July 2014 – July 2016.
2. Ran Duan, PhD, 2019. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Evaluating the impacts of antidepressant use on the risk of dementia. Service: May 2016 – April 2019.
3. Radmila Choate, PhD, 2019. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Estimating symptom burden and quality of life in patients with chronic respiratory disease. Service: March 2018-March 2019.
4. Shama Karanth, PhD, 2020. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Brain aging studies. Service: January 2019 – April 2021.
5. Jade Singleton, PhD, 2021. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Evaluating the burden of opioid use disorder among cardiac patients using electronic health records. Service: May 2019 – Dec 2021.
6. Ximena Oyarzun Gonzalez, PhD, 2022. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Studies of polypharmacy and medication therapy management in population-based cohorts. Service: May 2019 – December 2022.

### ***DrPH***

1. Xuan Zhang, DrPH, 2018. Department of Epidemiology, College of Public Health. Capstone: Sedative hypnotic use among older adults. Service: May 2016 – November 2018.

## **Member**

### ***MPH***

1. Stephanie Courtney, MPH, 2015. Department of Epidemiology, College of Public Health. Capstone: Correlates of depression and poor respiratory health: A cohort study in a rural



- county. Service: January – July 2015.
2. Laura Higdon, MPH, 2016. Department of Epidemiology, College of Public Health. Capstone: A comparative study of ever and never smokers with bronchiectasis. Service: March 2016 – May 2016.
  3. Jia Kangbai, MPH, 2016. Department of Epidemiology, College of Public Health. Service: September 2015 – May 2016.
  4. Jennifer Walch, MPH, 2016. Department of Epidemiology, College of Public Health. Capstone: Traumatic brain injury and psychiatric disorders in Alzheimer's disease. Service: November 2015 – May 2016.
  5. Gary Owen, PharmD/MPH, 2017. Department of Epidemiology, College of Public Health. Capstone: Association between cerebrovascular pathology and anti-hypertensive treatment in diabetes. Service: September 2015 – March 2017.
  6. Madison Ries, MPH, 2017. Department of Epidemiology, College of Public Health. Capstone: Triple-negative breast cancer in Kentucky. Service: March 2017-June 2017.
  7. Brooke Happ, MPH, 2018. Department of Epidemiology, College of Public Health. Capstone: Factors associated with delayed prenatal care participation: a population-based study in an Appalachian State. Service: October 2017-May 2018.
  8. Karina Manz, MPH, 2019. Department of Epidemiology, College of Public Health. Capstone: Cost-effectiveness of a weight loss intervention: an adaptation of the Look AHEAD lifestyle intervention in the US Military. Service: February 2019-April 2019.
  9. Zaynab Alabdali, MPH, 2019. Department of Epidemiology, College of Public Health. Association of second-hand smoke exposure and memory performance in an Appalachian pediatric cohort. Service: January 2019-May 2019.
  10. Courtney Marshall, MPH, 2019. Department of Epidemiology, College of Public Health. An assessment of occupational noise exposure and development of incident Mild Cognitive Impairment and Dementia. Service: February 2019-June 2019.
  11. Jahvona Pretty, MPH, 2020. Department of Epidemiology, College of Public Health. Diabetes Locus of Control and Depression in Older Adults with Type 1 and Type 2 Diabetes: The Study of Longevity in Diabetes. Service: November 2019-May 2020.
  12. Taylor Elliott, MPH, 2021. Department of Epidemiology, College of Public Health. An Evaluation of Injurious Falls and Fall-Risk-Increasing-Drug (FRID) Prescribing in Ambulatory Care in Older Adults. Service: January 2021-May 2021.
  13. Becca Mattingly, MPH, 2023. Department of Epidemiology and Environmental Health, College of Public Health. Rapid scoping review of the epidemiological evidence for mercury exposure and prevalence of Alzheimer's disease. Service: Feb 2023-April 2023.
  14. Katie Highfill, MPH, 2023. Department of Epidemiology and Environmental Health, College of Public Health. Prevalence of multimorbidity in the ARIC study. Service: March 2023-April 2023.
  15. Bethany Stewart, MPH, 2023. Department of Epidemiology and Environmental Health, College of Public Health. Perceptions and reporting behaviors regarding concussion among female collegiate athletes. Department of Epidemiology and Environmental Health, College of Public Health. Service: April 2023.

### **DrPH**

1. Justine Maxwell, DrPH, 2016. Department of Epidemiology, College of Public Health. Capstone: Atrazine exposure and Non-Hodgkin's Lymphoma in Kentucky. Service: July 2015 – June 2016.
2. Akosua Adu, DrPH, 2016. Department of Epidemiology, College of Public Health. Capstone: Circumstances Contributing to Suicides among Pregnant, Postpartum and Non-Pregnant Women (15-54 Years) in Rural and Urban Counties in the U.S., NVDRS

- 2003-2012. Service: December 2015 – November 2016.
3. Paul Norrod, DrPH, 2021. Department of Epidemiology, College of Public Health. Capstone: Depression and suicide among the farming population. Service: August 2018 – May 2021.
  4. Kristen Van Buren, DrPH, 2021. Department of Epidemiology, College of Public Health. Capstone: Occupational and environmental noise exposure and maternal and child health outcomes. Service: October 2018 – March 2021.

## **PhD**

1. Wenjie Lou, PhD, 2016. Department of Statistics, College of Arts and Sciences. Dissertation: Continuous time multi-state model with missing covariates and classification error. Service: January 2014 – May 2016.
2. Frank Appiah, PhD, 2017. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Application of mixture models to Alzheimer's disease biomarkers. Service: October 2014 – March 2017.
3. Eseosa Ighodaro, PhD, 2017. Department of Neuroscience, College of Medicine. Dissertation: Brain arteriolosclerosis: Causes and consequences. Service: September 2014 – June 2017.
4. Meng Liu, PhD, 2017. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Design of interim monitoring strategies for count and continuous data: applications in single-arm phase II clinical trials. Service: February 2015 – July 2017.
5. Donglin Yan, PhD, May 2018. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Phase I/II designs for early stage molecularly targeted agents in cancer. Service: January 2017 – January 2018.
6. Yuriko Katsumata, PhD, Dec 2017. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Genetic associations with dementia. Service: July 2016 – Dec 2017.
7. I-Chen Chen, PhD, May 2018. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Generalized estimating equations. Service: November 2016 – April 2018.
8. Whitney Ford, PhD, December 2018. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Generalized estimating equations and clinical trials. Service: January 2016 – November 2018.
9. Zhengyan Huang, PhD, May 2019. Departments of Epidemiology and Biostatistics. Dissertation: Differential abundance and clustering analysis with empirical Bayes shrinkage estimation of variance (DASEV) for proteomics and metabolomics data. Service: January 2018 – May 2019.
10. Ashley Martinez, PhD, May 2020. Department of Pharmacy Practice and Science, College of Pharmacy. Dissertation: Potentially inappropriate medication among older adults and its association with cognitive impairment. Role: committee member, April 2018 – May 2020.
11. G Yeon Oh, PhD, August 2020. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Opioid use among vulnerable populations. Role: committee member, April 2017 – June 2020.
12. Shaowli Kabir, PhD, April 2022. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Statistical heterogeneity: applications to nephrology data. September 2020 – April 2022.
13. Zachary Winder, PhD, 2021. Department of Physiology, College of Medicine. Dissertation: Novel plasma biomarkers in older adults with normal cognition. Role:

- committee member, June 2019 – April 2022.
14. Gaixin Du, PhD, 2023. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Group-based trajectory models in health care data. June 2020 – April 2023.
  15. Gavin Rienne, PhD, 2023. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Methods in disaster epidemiology research. June 2020 – April 2023.
  16. Changrui Lui, PhD, 2023. Department of Statistics, College of Arts and Sciences. Dissertation: Wilcoxon-Mann-Whitney Effects for Clustered Data: Informative Cluster Size. May 2021 – June 2023.
  17. Taylor Estep, PhD, 2023. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Mixture models and AD biomarkers. Role: committee member January 2020 – July 2023.

### ***Degree in progress (N=4)***

#### **Chair**

##### ***PhD***

1. Chad Williams, PhD anticipated 2022. Departments of Epidemiology and Environmental Health and Biostatistics, College of Public Health. Dissertation: Family history of dementia. Role: Chair, February 2019 – present.
2. Ning LI, PhD anticipated 2024. Departments of Epidemiology and Environmental Health and Biostatistics, College of Public Health. Dissertation: Continuity of care as a predictor of post-stroke outcomes. Role: Co-Chair, Jan 2023 – present.

#### **Member**

##### ***PhD***

1. Cameron Bushling, ABD; PhD anticipated 2024. Departments of Epidemiology and Biostatistics, College of Public Health. Dissertation: Non-parametric longitudinal models. June 2020 – present.
2. Lesley Golden, Department of Physiology, College of Medicine. Dissertation: Transmutation of APOE4 to APOE2 as prevention strategy for Alzheimer's disease. November 2020 – present.

### **FACULTY MENTORING**

1. Yuriko Katsumata, PhD, Assistant Professor, Department of Biostatistics, College of Public Health. Formal mentoring role: Member of mentoring committee. January 2019 – present.
2. Beth Lacy, PhD, Assistant Professor, Department of Epidemiology and Environmental Health. Formal mentoring role: Chair of mentoring committee. November 2019 – present.
3. Radmila Choate, PhD, MD, Assistant Professor, Department of Epidemiology and Environmental Health. Formal mentoring role: Member of mentoring committee. November 2019 – present.
4. Rachel Vickers Smith, PhD, Assistant Professor, Department of Epidemiology and Environmental Health. Formal mentoring role: Member of mentoring committee. August 2020 – present.

5. David Braun, PhD, Assistant Professor, Department of Neuroscience. Formal mentoring role: Chair of mentoring committee.
6. Ketrell McWhorter, PhD, Assistant Professor, Department of Epidemiology and Environmental Health. Formal mentoring role: Member of mentoring committee.

## **SERVICE**

### ***Department/Center***

Member	Department Self-Study Committee (2022-2023)
Chair	Sanders-Brown Bioinformatics Faculty Search Committee (2019 - 2020)
Member	Department of Epidemiology Faculty Search Committee (2017)
Member	EPB PhD Curriculum Committee (2016)
Member	Graduate Center for Gerontology Faculty Search Committee (2013)
Member	Alzheimer's Disease Center Executive Committee (2012 - )

### ***College***

Member	Faculty Council (2023 - )
Member	CPH Acting Dean Consultation Committee for the Provost (May 2022)
Member	Associate Dean for Academic and Student Affairs Search Committee (2018-19)
Member	Department of Epidemiology Chair Search Committee (2017-18)
Member	Academic Affairs Admin. Hiring Committee (2017)
Member	Program Coordinator Hiring Committee (2017)
Member	Faculty Council (2015-19)
Member	Research Committee (2013-14)

### ***University***

Member	Neurosciences Research Priorities Internal Advisory Council (2019- )
Member	Academic Computing Committee (2016 - 2019)
Member	Health Care Colleges Code Appeals Board (2015)
Member	UK Biobanking and Informatics Collaborative Group (2012)

### ***Outside Examiner for PhD Defenses***

1. Kat Cerny, PhD, 2015. Department of Animal and Food Sciences, College of Agriculture. Dissertation: Steroid-dependent regulation of the oviduct: A cross-species transcriptomal analysis.
2. Zhiheng Xie, PhD, 2016. Department of Statistics, College of Arts and Sciences. Dissertation: Topics in logistic regression analysis.
3. Lijie Wan, PhD, 2016. Department of Statistics, College of Arts and Sciences. Dissertation: Continuous time multi-state models for interval censored data.
4. Chenlu Ke, PhD, 2019. Department of Statistics, College of Arts and Sciences. Dissertation: A new independence measure and its application in high dimensional data analysis.
5. Han Ly, PhD, 2020. Department of Pharmacology and Nutritional Sciences. Dissertation: Role of pancreatic amylin in Alzheimer's and brain microvascular pathologies.
6. Pei Wang, PhD, 2021. Department of Statistics. Dissertation: Dimension reduction techniques in regression.
7. Sheng Yuan, PhD, 2023. Department of Statistics. Dissertation: Statistical properties of neural networks.

### **Professional Service – Journal Reviews**

*Journal of Alzheimer's Disease* (Associate Editor, 2020- )

*Neurology* (Cognitive Editorial Board Member, 2022 - )

### **Ad-hoc Reviews**

*Alzheimer's & Dementia*

*American Journal of Alzheimer's Disease and Other Dementias*

*American Journal of Epidemiology*

*American Journal of Medical Sciences*

*Annals of Clinical and Translational Neurology*

*Annals of Neurology*

*BMC Medical Research Methodology*

*BMC Medicine*

*BMJ Open*

*Dementia and Geriatric Cognitive Disorders*

*Diabetes Metabolism Research and Reviews*

*International Journal of Geriatric Psychiatry*

*JAMA Neurology*

*Journal of Diabetes Research*

*Journal of the International Neuropsychological Society*

*Journal of Neurology, Neurosurgery, and Psychiatry*

*Journal of Neurology and Neuromedicine*

*Journal of Neuropathology and Experimental Neurology* (**Statistical Reviewer**)

*Journal of Rural Health*

*Statistical Methods in Medical Research*

*Neuropathology*

*Nutrition, Metabolism, & Cardiovascular Disease*

*PLoS One*

### **Professional Service - Grant Reviews**

2023 National Institutes of Health: ODHS,

2022 National Institutes of Health: NCCIH SEP

2016-22 National Alzheimer's Coordinating Center's Scientific Review Committee

2021 National Institutes of Health: NIA (NAME study section, ad hoc reviewer)

2020 National Institutes of Health: NINDS SEP, AHRQ SEP, NIA SEP

2019 Florida Department of Health, Ed and Ethel Moore Alzheimer's Disease Research Program 2019-20

2019 Leibniz Competition 2020, Germany

2019 University of Kansas Alzheimer's Disease Center Pilot Award Review

2019 University of Kentucky Alzheimer's Disease Center Pilot Award Review

2018 University of Washington Alzheimer's Disease Center Pilot Award Review

2018, 2020 Texas Alzheimer's Research and Care Consortium Scientific Review Committee

2018 Netherlands Organisation for Health Research and Development (ZonMw)

2018 Medical Research Council, United Kingdom

2017 University of Kentucky Center for Clinical and Translational Sciences Community Engagement and Health Disparities Pilot Award Review Panel

2015 University of Kentucky Center for Clinical and Translational Sciences TL1 Review Panel

### **Professional Service – NIA Alzheimer's Disease Centers**

2021 National Alzheimer's Coordinating Center Data Core Steering Committee, Chair-

2022 elect  
2022 - National Alzheimer's Coordinating Center Data Core Steering Committee, Chair  
Member, External Advisory Committee Member for New Mexico Exploratory  
ADRC

### **Professional Memberships**

Member Society for Epidemiologic Research (2014 - )  
Member International Society to Advance Alzheimer's Research and Treatment (2014 - )

- Communication Chair, Clinical Trials Professional Interest Area (2018 - 2020)
- Vice Chair, Clinical Trials Professional Interest Area (2020-2022)
- Chair, Clinical Trials Professional Interest Area (2022- )

Member American Statistical Association (2016 - )

### **Community Outreach**

#### **National**

1. Webinar. "The Sexual Abuse of Vulnerable Adults in Institutions: Key study findings and implications for practice." National Adult Protective Services Administration Research to Practice series. February 7, 2017.
2. Interview. "Diabetes and Dementia". Dr. Bill Latimer's Public Health Minute, WUFT Radio. January 12, 2017. <https://youtu.be/tKmHE4RlfQ>
3. Interview. "Second Thoughts about Memory Complaints." Kristina Fiore, MedPage Today. October 13, 2016.

#### **Local**

1. Invited presentation. "COVID-19 information and updates", Mind Matters Health Fair, Sanders-Brown Center on Aging. May 2020 and May 2021.
2. Invited presentation. "Diabetes and brain disease in older adults." Kentucky Association of Diabetes Educators Annual Symposium. May 19, 2017.
3. Remarks, 7<sup>th</sup> Annual Henderson Poker Run fundraiser for Sanders-Brown Center on Aging. Henderson, KY. August 6, 2016.
4. Opinion. Do online brain games really work? *Kentucky Living*, March 2015.
5. Interview. "The Lumosity Factor". Noon News, WTVQ, Lexington, KY. June 10, 2014.
6. Invited presentation. "If you can't beat it, avoid it: Evidence-based strategies for preventing cognitive decline." Invited presentation for the University of Kentucky Wellness Conference. May 16, 2014.
7. Interview. "More Research Needed on Effectiveness of Brain Games." Dr. Greg Davis on Medicine, WUKY Radio. March 19, 2014.

### **AWARDS & HONORS**

2022 College of Public Health Alumni Leader Award  
2022 Dean's Outstanding Graduate Teaching Award (Co-Winner with David Fardo)  
2020 Dean's Outstanding Graduate Teaching Award  
2020 University Research Professor, UK College of Public Health  
2019 Kentucky Colonel, Commonwealth of Kentucky  
2019 Dean's Innovation in Teaching Award, UK College of Public Health  
2019-20 Wethington Award, UK College of Public Health

2017-18 Teacher Who Made a Difference, UK College of Education  
 2014-18 Wethington Award, UK College of Medicine  
 2013 Caldwell Book Award for Excellence in Infectious Disease Epidemiology, UK  
 College of Public Health, Department of Epidemiology  
 2006 Delta Omega Honor Society, UK College of Public Health  
 2006 Academic Excellence Award, UK College of Public Health  
 2006 Promising Investigator Award, UK College of Public Health  
 2006 Department of Biostatistics Award, UK College of Public Health  
 2005 Best Oral Presentation, UK College of Public Health 2<sup>nd</sup> Annual Research  
 Symposium  
 2000 William Sowder Award for Best Critical Paper by a Graduate Student in English  
 1999 Phi Beta Kappa, University of Kentucky  
 1999 Dantzler Award for Outstanding English Senior, University of Kentucky  
 1995-99 Otis A. Singletary Academic Scholarship, University of Kentucky