

CURRICULUM VITAE
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Education:

A.B. History, University of Michigan, 1976.
Ph.D. Economics, Stanford University, 1983.

Honors, Awards, and Fellowships:

1972-76 National Merit Scholar, Honors College, University of Michigan.
1976 Phi Beta Kappa, A.B. with High Distinction and Highest Honors.
1976 Michigan History Department Prize for Best Honors Thesis.
1984 Cole Prize for best paper in Journal of Economic History (83/84).
1987-88 National Fellow, Hoover Institution.
1987-91 Alfred P. Sloan Research Fellowship.
1995 Cole Prize for best paper in Journal of Economic History (94/95).
1996-2001 NIA K01 Research Career Award

Teaching and Research Experience and Employment:

1983-87 Assistant Professor of Economics, Yale University.
1984 Visiting Asst Professor of Economics and Demography, UC Berkeley.
1987-92 Associate Professor of Economics, Yale University.
1992-93 Directeur de Recherche, INRA (Paris).
1993-95 Research Fellow, Population Research Center, NORC and U Chicago.
1994-99 Visiting Associate Professor, Department of Economics, University of Chicago
1995-99 Research Associate, Harris School of Public Policy, University of Chicago
12/99- Research Professor, Survey Research Center, University of Michigan,
12/99-05 Associate Director, Health and Retirement Study
8/02- Research Affiliate, Population Studies Center, University of Michigan
2005-07, Co-Director, Health and Retirement Study
2007- Director, Health and Retirement Study

Professional Affiliations:

Member: International Union for the Scientific Study of Population, Population Association of America,
National Institute on Aging National Council on Aging

I. PAPERS AND PUBLICATIONS

- Sun, Daokun, Melissa A. Richard, Solomon K. Musani, Yun Ju Sung, Thomas W. Winkler, Karen Schwander, Jin Fang Chai et al. "Multi-ancestry genome-wide association study accounting for gene-psychosocial factor interactions identifies novel loci for blood pressure traits." *Human Genetics and Genomics Advances* 2, no. 1 (2021): 100013.
- Graff, Mariaelisa, Anne E. Justice, Kristin L. Young, Eirini Marouli, Xinruo Zhang, Rebecca S. Fine, Elise Lim et al. "Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry." *The American Journal of Human Genetics* 108, no. 4 (2021): 564-582.
- Hu, Peifeng, Jinkook Lee, Sidney Beaumaster, Jung Ki Kim, Sharmistha Dey, **David Weir**, and Eileen M. Crimmins. "Cognitive Function and Cardiometabolic-Inflammatory Risk Factors Among Older Indians and Americans." *Journal of the American Geriatrics Society* 68 (2020): S36-S44.
- Crimmins, Eileen M., Bharat Thyagarajan, Morgan E. Levine, **David R. Weir**, and Jessica Faul. "Associations of Age, Sex, Race/Ethnicity, and Education With 13 Epigenetic Clocks in a Nationally Representative US Sample: The Health and Retirement Study." *The Journals of Gerontology: Series A* (2021).
- Crimmins, Eileen M., Bharat Thyagarajan, Jung Ki Kim, **David Weir**, and Jessica Faul. "Quest for a summary measure of biological age: the health and retirement study." *GeroScience* (2021): 1-14.
- Bush, Evelyn, Tim Cupery, Robert W. Turner, Amanda Sonnega, **David Weir**, Keith E. Whitfield, and James S. Jackson. "The Price of Playing Through Pain: The Link Between Physical and Behavioral Health in Former NFL Athletes." *American Journal of Men's Health* 14, no. 6 (2020): 1557988320975541.
- Surendran, P., Feofanova, E.V., Lahrouchi, N. *et al.* Discovery of rare variants associated with blood pressure regulation through meta-analysis of 1.3 million individuals. *Nat Genet* **52**, 1314–1332 (2020). <https://doi.org/10.1038/s41588-020-00713-x>
- Jian, Xueqiu, Tamar Sofer, Wassim Tarraf, Jan Bressler, Jessica D. Faul, Wei Zhao, Scott M. Ratliff et al. "Genome-wide association study of cognitive function in diverse Hispanics/Latinos: results from the Hispanic Community Health Study/Study of Latinos." *Translational psychiatry* 10, no. 1 (2020): 1-13.
- de las Fuentes, Lisa, Yun Ju Sung, Raymond Noordam, Thomas Winkler, Mary F. Feitosa, Karen Schwander, Amy R. Bentley et al. "Gene-educational attainment interactions in a multi-ancestry genome-wide meta-analysis identify novel blood pressure loci." *Molecular Psychiatry* (2020): 1-15.
- Clark, David W., Yukinori Okada, Kristjan HS Moore, Dan Mason, Nicola Pirastu, Ilaria Gandin, Hannele Mattsson et al. "Associations of autozygosity with a broad range of human phenotypes." *Nature communications* 10, no. 1 (2019): 1-17.
- Newman, A.B., Kritchevsky, S.B., Guralnik, J.M., Cummings, S.R., Salive, M., Kuchel, G.A., Schrack, J., Morris, M.C., **Weir, D.**, Baccarelli, A. and Murabito, J.M., 2020. Accelerating the Search for Interventions Aimed at Expanding the Health Span in Humans: The Role of Epidemiology. *The*

Journals of Gerontology: Series A, 75(1), pp.77-86.

- Turner, Robert W., Amanda Sonnega, Tim Cupery, Joshua Chodosh, Keith E. Whitfield, **David Weir**, and James S. Jackson. "Functional Limitations Mediate the Relationship Between Pain and Depressive Symptoms in Former NFL Athletes." *American journal of men's health* 13, no. 5 (2019): 1557988319876825.
- Langa, Kenneth M., Lindsay H. Ryan, Ryan J. McCammon, Richard N. Jones, Jennifer J. Manly, Deborah A. Levine, Amanda Sonnega, Madeline Farron, and **David R. Weir**. "The health and retirement study harmonized cognitive assessment protocol project: study design and methods." *Neuroepidemiology* 54, no. 1 (2020): 64-74.
- Evangelou, Evangelos, He Gao, Congying Chu, Georgios Ntritsos, Paul Blakeley, Andrew R. Butts, Raha Pazoki et al. "New alcohol-related genes suggest shared genetic mechanisms with neuropsychiatric disorders." *Nature human behaviour* 3, no. 9 (2019): 950-961.
- Deelen, Joris, Daniel S. Evans, Dan E. Arking, Niccolò Tesi, Marianne Nygaard, Xiaomin Liu, Mary K. Wojczynski et al. "A meta-analysis of genome-wide association studies identifies multiple longevity genes." *Nature communications* 10, no. 1 (2019): 1-14.
- Sung, Yun Ju, Lisa de Las Fuentes, Thomas W. Winkler, Daniel I. Chasman, Amy R. Bentley, Aldi T. Kraja, Ioanna Ntalla et al. "A multi-ancestry genome-wide study incorporating gene–smoking interactions identifies multiple new loci for pulse pressure and mean arterial pressure." *Human molecular genetics* 28, no. 15 (2019): 2615-2633.
- De Vries, Paul S., Michael R. Brown, Amy R. Bentley, Yun J. Sung, Thomas W. Winkler, Ioanna Ntalla, Karen Schwander et al. "Multi-ancestry genome-wide association study of lipid levels incorporating gene-alcohol interactions." *American journal of epidemiology* 188, no. 6 (2019): 1033-1054.
- Brazel, David M., Yu Jiang, Jordan M. Hughey, Valérie Turcot, Xiaowei Zhan, Jian Gong, Chiara Batini et al. "Exome chip meta-analysis fine maps causal variants and elucidates the genetic architecture of rare coding variants in smoking and alcohol use." *Biological psychiatry* 85, no. 11 (2019): 946-955.
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- Erzurumluoglu, A. M., Liu, M., Jackson, V. E., Barnes, D. R., Datta, G., Melbourne, C. A., ... **Weir, D. R.** & Adnan, S. D. (2019). Meta-analysis of up to 622,409 individuals identifies 40 novel smoking behaviour associated genetic loci. *Molecular psychiatry*, 1.
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- Weir, David** and Kenneth Langa. 2018. "How Well Can Medicare Records Identify Seniors with Cognitive Impairment Needing Assistance with Financial Management?" University of Michigan Retirement Research Center (MRRC) Working Paper, WP 2018-391. Ann Arbor, MI. <https://mrdrc.isr.umich.edu/publications/papers/pdf/wp391.pdf>
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David Weir, Margaret Lay, and Kenneth Langa, "Economic development and gender inequality in cognition: A comparison of China and India, and of SAGE and the HRS sister studies" Journal of the Economics of Ageing 2014:114-125 doi: 10.1016/j.jeoa.2014.08.002

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Deborah E Barnes, Ph.D., M.P.H.; Alexa S Beiser, PhD; Anne Lee, BA; Kenneth M Langa, MD, PhD; Alain Koyama, MS; Sarah R Preis, ScD, MPH; John Neuhaus, PhD; Ryan J McCammon, AB; Kristine Yaffe, MD; Sudha Seshadri, MD; Mary N Haan, DrPH, MPH; **David R Weir**, PhD, "Development and validation of a brief dementia screening indicator for primary care," Alzheimer's & Dementia 10(6):656-665.e1 (Nov. 2014)

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Research Grants

Ongoing Research Support as PI

NIA U01 AG009740-23 (PI) 1/1/18-12/31/23 (\$132million)

Health and Retirement Study

This project is for three additional waves of data collection on an established panel designed to study development throughout the second half of life. Special emphasis is given to the measurement of health status, biological measures, family relations, and socio-economic context. Data sharing is a primary aim of the study.

NIA R01 AG060167-02 (PI) 9/01/19-4/30/23 (\$3.9million)

Harmonizing Cognitive Assessments in Irish, English, and American Longitudinal Studies:

Supporting Cross-National Research on the Epidemiology of Dementia This project aims to expand the resources available for cross-national research on the epidemiology of Alzheimer's disease and Alzheimer's disease related dementias (AD/ADRD).

NIA R24 AG065182-02 (Weir, contact PI; Langa MPI) 9/15/19-5/31/24 (\$1.9million)

Research Network for the Harmonized Cognitive Assessment Protocol (HCAP) This project establishes a research network to support the continued harmonization of the HCAP studies.

Recent Completed Research Support

NIA U01 AG009740-26S1 (Weir) 8/1/15-12/31/17 (\$17.9million)

Health and Retirement Study New Cohort Revision. This project uses innovative sampling methods to list, screen, and recruit a new cohort of 5,200 late baby boomers (b 1960-65) to the HRS.

NIA U01 AG009740-26S2 (Weir)9/1/15-12/31/17 (\$16.1million)

Health and Retirement Study Venous Blood Revision. This project will collect samples of whole blood from panel participants in the HRS for repository storage and immediate assays from which data will be made available to the research community.

NIA U01 AG009740-26S3 (Weir) 9/1/15-12/31/17 (\$7.7million)

Health and Retirement Study Population Study of Dementia Revision. This project will conduct an extensive cognitive assessment of 3,000 HRS participants over age 65, harmonized to similar longitudinal aging studies around the world.

NIA RC4 AG039029-01 (PI) 9/30/10-8/31/13

Expanding a National Resource for Genetic Research in Behavioral & Health Science

This ARRA project will expand the genetic database on HRS respondents to include new participants providing samples in 2010 and 2012. It will also conduct illustrative GWAS analyses on cardiovascular and cognition outcomes.

NIA R01 AG020717-06 (Kapteyn, RAND) 7/1/08-4/30/13

Internet Interviewing and the HRS

The UM will perform two major tasks under this subcontract. It will manage and conduct all internet interviews with HRS respondents, and it will provide design leadership on the internet approaches to the measurement of preference parameters, for both the ALP and HRS surveys.

National Football League (Weir, PI) 8/1/08-3/31/09

Retired NFL Players Survey

This project examined the characteristics and needs of former NFL players who are vested for retirement, covered by disability insurance or are actively participating in the NFL's retirement pension system.

NIA K01AG00703 2/1/96 - 1/31/01

Research Training in Economic Aspects of Chronic Disease

Special Emphasis Research Career Award in the Economics and Demography of Aging.