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Bio

BIO

Frank R. Lin, MD, PhD is an otologic surgeon and epidemiologist who has translated his experiences caring for adults with hearing loss into public health research and policy. These efforts include establishing the impact of hearing loss and hearing interventions on dementia risk and other health outcomes through the ACHIEVE study, collaborating with and testifying before policy makers to secure federal passage and enactment of the U.S. Over-the-Counter Hearing Aid Act of 2017, and launching the Hearing Number awareness initiative. Lin is a former member of both the Board on Health Sciences Policy and the Forum on Aging, Disability, and Independence at the National Academies. Lin is also a Professor at Johns Hopkins University and on the clinical team at Apple.

CLINICAL FOCUS

- Otolaryngology
- Otology

PROFESSIONAL EDUCATION

- Board Certification: Otolaryngology, American Board of Otolaryngology (2010)
- Fellowship: Lucerne Cantonal Hospital (2010) Switzerland
- Residency: Johns Hopkins Hospital (2010)
- Internship: Johns Hopkins Hospital (2004) MD
- Medical Education: Johns Hopkins University School of Medicine (2003) MD

Publications

PUBLICATIONS

- **Effects of hearing intervention on physical function: A secondary analysis of the ACHIEVE study.** *PloS one*

  Deal, J. A., Zhang, W., Jiang, K., Huang, A., Pike, J. R., Arnold, M., Burgard, S., Chen, Z. S., Chisolm, T., Couper, D., Goman, A. M., Glynn, N. W., Gmelin, et al

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- **Hearing loss and incident dementia over 8 years in Black and White older adults: the Atherosclerosis Risk in Communities Neurocognitive Study** *FRONTIERS IN EPIDEMIOLOGY*
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- **Obstructive sleep apnea and functional hearing loss over 8 years: results from the National Health and Aging Trends Study** *AMERICAN JOURNAL OF EPIDEMIOLOGY*
  Jiang, K., Spira, A. P., Reed, N. S., Lin, F. R., Deal, J. A.
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- **Associations Between Predisposing, Enabling, and Need Factors and Hours of Daily Hearing Aid Use in the Atherosclerosis Risk in Communities Study** *AMERICAN JOURNAL OF AUDIOLOGY*
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- **Effects of Hearing Intervention on Mobility Disability Over 3 Years: Findings From the ACHIEVE Study**
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- **Developing Topics.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
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- **Public Health.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
  Reed, N. S., Pike, J. R., Thyagarajan, B., Deal, J. A., Arnold, M. L., Chisolm, T., Couper, D., Gottesman, R. F., Hughes, T. M., Knopman, D. S., Mosley, T. H., Palta, P., Pankow, et al
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- **Public Health.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
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- **Modification of the Association Between Hearing Trouble and Satisfaction With Care by Accompaniment to Health Care Visits** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
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- **Summary population attributable fraction of dementia prevalence associated with sensory risk factors** *JOURNAL OF ALZHEIMERS DISEASE*
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- **Rationale for the Development of a Universal Hearing Metric for Public Consumption: Initiative 1 of the Hearing Health Collaborative** *OTOLOGY & NEUROTOLOGY*
  Reed, N. S., Assi, S., Bush, M., Carlson, M. L., Cosetti, M., Creel, L., Gubbels, S., Gurgel, R., Holcomb, M., Jilla, A. M., Lin, F. R., Marinelli, J. P., Myers, et al
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- **Associations of Traumatic Brain Injury and Hearing: Results From the Atherosclerosis Risk in Communities Neurocognitive Study (ARIC-NCS)** *JOURNAL OF HEAD TRAUMA REHABILITATION*
  Schneider, A. L. C., Kamath, V., Reed, N. S., Mosley, T., Gottesman, R. F., Sharrett, A., Lin, F. R., Deal, J. A.

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- **International Consortium on Ageing-Related Pathologies (ICCARP) Audiovestibular Group: fostering international consensus to refine International Classification of Diseases (ICD-11) codes for hearing loss across the life course** *GEROSCIENCE*
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  Goman, A. M., Tan, N., Pike, J., Bessen, S. Y., Chen, Z., Huang, A. R., Arnold, M. L., Burgard, S., Chisolm, T. H., Couper, D., Deal, J. A., Glynn, N. W., Gmelin, et al
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- **Hearing Intervention, Social Isolation, and Loneliness A Secondary Analysis of the ACHIEVE Randomized Clinical Trial** *JAMA INTERNAL MEDICINE*
  Reed, N. S., Chen, J., Huang, A. R., Pike, J. R., Arnold, M., Burgard, S., Chen, Z., Chisolm, T., Couper, D., Cudjoe, T. K. M., Deal, J. A., Goman, A. M., Glynn, et al
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- **Association of Self-Recognition of Hearing Loss With Hospitalizations in Older Adults in the United States** *MEDICAL CARE*
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- **Effects of Hearing Intervention on Physical Activity Measured by Accelerometry: A Secondary Analysis of the ACHIEVE Study** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
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- **Safety, Dosimetry, and Feasibility of [⁶⁸Ga]Ga-PSMA-R2 as an Imaging Agent in Patients with Biochemical Recurrence or Metastatic Prostate Cancer** *JOURNAL OF NUCLEAR MEDICINE*
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- **Residential Differences and Depression Among Older Adults With Dual Sensory Loss** *JAMA OTOLARYNGOLOGY-HEAD & NECK SURGERY*
  Wang, E. B., Morales, E., Gross, A. L., Lin, F. R., Reed, N. S., Deal, J. A.
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- **ASSOCIATIONS BETWEEN HEARING LOSS AND FUNCTIONAL BRAIN CONNECTIVITY AMONG DEMENTIA-FREE OLDER ADULTS**
  Jiang, K., Reed, N., Soldan, A., Lin, F., Albert, M., Deal, J., Pettigrew, C.
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- **AFFORDABLE, ACCESSIBLE HEARING CARE AMONG INDIVIDUALS WITH COGNITIVE IMPAIRMENT: LESSONS FROM THE HEARS RCT**
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- **Sleep characteristics and hearing loss in middle-aged and older adults: The National Health and Nutrition Examination Survey 2015-2018#.** *Sleep epidemiology*
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- **Clinical Manifestations.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
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- **A Hearing Intervention and Health-Related Quality of Life in Older Adults: A Secondary Analysis of the ACHIEVE Randomized Clinical Trial** *JAMA NETWORK OPEN*
  Huang, A. R., Morales, E., Arnold, M. L., Burgard, S., Couper, D., Deal, J. A., Glynn, N. W., Gmelin, T., Goman, A. M., Gravens-Mueller, L., Hayden, K. M., Mitchell, C. M., Pankow, et al
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- **Effect of Hearing Intervention Versus Health Education Control on Fatigue: A Secondary Analysis of the ACHIEVE Study** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
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  Sanchez, V. A., Arnold, M. L., Morales, E., Reed, N. S., Faucette, S., Burgard, S., Calloway, H. N., Coresh, J., Deal, J. A., Goman, A. M., Gravens-Mueller, L., Hayden, K. M., Huang, et al
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- **Hearing intervention and cognitive decline: the ACHIEVE trial Reply** *LANCET*
  Lin, F. R., Coresh, J.
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- **Age-Related Hearing Loss. Reply.** *The New England journal of medicine*
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- **Hearing Impairment and Physical Activity and Physical Functioning in Older Adults: Baseline Results From the ACHIEVE Trial** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
  Cai, Y., Martinez-Amezcua, P., Betz, J. F., Zhang, T., Huang, A. R., Wanigatunga, A. A., Glynn, N. W., Burgard, S., Chisolm, T. H., Coresh, J., Couper, D., Deal, J. A., Gmelin, et al
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- **Adult-onset hearing loss and incident cognitive impairment and dementia - A systematic review and meta-analysis of cohort studies** *AGEING RESEARCH REVIEWS*
  Yu, R., Proctor, D., Soni, J., Pikett, L., Livingston, G., Lewis, G., Schilder, A., Bamiou, D., Mandavia, R., Omar, R., Pavlou, M., Lin, F., Goman, et al
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- **Perceived Challenges and Coping Strategies in Hearing-Impaired Individuals Across Normal Vision, Low Vision, and Blindness**
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- **Design and Methods of the Early Age-Related Hearing Loss Investigation Randomized Controlled Trial** *OTOLOGY & NEUROTOLOGY*
  Denham, M. W., Arnold, M. L., Sanchez, V. A., Lin, F. R., Gomez, M. C., Neil, H., Boyle, S., Selevan, S., Sussman, T. J., Fine, I., Glynn, N. W., Teresi, J., Noble, et al
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- **Coronary artery calcium as a marker of healthy and unhealthy aging in adults aged 75 and older: The Atherosclerosis Risk in Communities (ARIC) study** *ATHEROSCLEROSIS*
  Obisesan, O. H., Boakye, E., Wang, F. M., Dardari, Z., Dzaye, O., Cainzos-Achirica, M., Meyer, M. L., Gottesman, R., Palta, P., Coresh, J., Howard-Claudio, C. M., Lin, F. R., Punjabi, et al
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- **Age-Related Hearing Loss** *NEW ENGLAND JOURNAL OF MEDICINE*
  Lin, F. R.
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- **Description of the Baseline Audiologic Characteristics of the Participants Enrolled in the Aging and Cognitive Health Evaluation in Elders Study** *AMERICAN JOURNAL OF AUDIOLOGY*
  Sanchez, V. A., Arnold, M. L., Betz, J. F., Reed, N. S., Faucette, S., Anderson, E., Burgard, S., Coresh, J., Deal, J. A., Eddins, A., Goman, A. M., Glynn, N. W., Gravens-Mueller, et al
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- **Hearing loss and dementia in older adults: A narrative review** *JOURNAL OF THE CHINESE MEDICAL ASSOCIATION*
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- **Sensory andmotor deficits as contributors to early cognitive impairment** *ALZHEIMERS & DEMENTIA*
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- **Recruitment and baseline data of the Aging and Cognitive Health Evaluation in Elders (ACHIEVE) study: A randomized trial of a hearing loss intervention for reducing cognitive decline** *ALZHEIMERS & DEMENTIA-TRANSLATIONAL RESEARCH & CLINICAL INTERVENTIONS*
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- **Association between hearing aid use and mortality in adults with hearing loss in the USA: a mortality follow-up study of a cross-sectional cohort** *LANCET HEALTHY LONGEVITY*
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- **Hearing impairment and risk of dementia in The HUNT Study (HUNT4 70+): a Norwegian cohort study** *ECLINICALMEDICINE*

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- **Hearing loss and cognition: A protocol for ensuring speech understanding before neurocognitive assessment** *ALZHEIMERS & DEMENTIA*
  Kolberg, E. R., Morales, E., Thallmayer, T. W., Arnold, M. L., Burgard, S., Chisolm, T. H., Coresh, J., Couper, D., Hayden, K. M., Huang, A. R., Lin, F. R., Mitchell, C. M., Mosley, et al
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- **POPULATION ATTRIBUTABLE FRACTIONS FOR THE CONTRIBUTION OF HEARING LOSS ON DEMENTIA RISK ACROSS COHORT STUDIES**
  Smith, J., Burg, E., Sharrett, A., Reed, N., Lin, F., Coresh, J., Deal, J., Ishak, E.
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- **MODIFICATION OF THE ASSOCIATION BETWEEN HEARING LOSS AND DEMENTIA PREVALENCE BY SELF-REPORTED SLEEP DISTURBANCES**
  Jiang, K., Spira, A., Reed, N., Huang, A., Lin, F., Deal, J.
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- **HEARING LOSS AND FATIGUE IN MIDDLE-AGED AND OLDER ADULTS**
  Jiang, K., Spira, A., Lin, F., Deal, J., Reed, N.
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- **Depression and Health-Related Quality of Life Among Older Adults With Hearing Loss in the ACHIEVE Study** *JOURNAL OF APPLIED GERONTOLOGY*
  Huang, A. R., Reed, N. S., Deal, J. A., Arnold, M., Burgard, S., Chisolm, T., Couper, D., Glynn, N. W., Gmelin, T., Goman, A. M., Gravens-Mueller, L., Hayden, K. M., Mitchell, et al
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- **Population prevalence of dual sensory loss in community-dwelling US adults 71 years and older: Evidence from the National Health and Aging Trends Study** *JOURNAL OF THE AMERICAN GERIATRICS SOCIETY*
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- **Hearing Loss and Frailty among Older Adults: The Atherosclerosis Risk in Communities Study** *JOURNAL OF THE AMERICAN MEDICAL DIRECTORS ASSOCIATION*
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- **Associations of sleep characteristics in late midlife with late-life hearing loss in the Atherosclerosis Risk in Communities-Sleep Heart Health Study (ARIC-SHHS)** *SLEEP HEALTH*
  Jiang, K., Spira, A. P., Gottesman, R. F., Full, K. M., Lin, F. R., Lutsey, P. L., Morales, E., Punjabi, N. M., Reed, N. S., Sharrett, A., Deal, J. A.
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  Lin, F. R., Pike, J. R., Albert, M. S., Arnold, M., Burgard, S., Chisolm, T., Couper, D., Deal, J. A., Goman, A. M., Glynn, N. W., Gmelin, T., Gravens-Mueller, L., Hayden, et al
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  Lin, F. R., Chadha, S.
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- **The Population Attributable Fraction of Dementia From Audiometric Hearing Loss Among a Nationally Representative Sample of Community-Dwelling Older Adults** *JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES*
  Smith, J. R., Huang, A. R., Lin, F. R., Reed, N. S., Deal, J. A.
  2023; 78 (7): 1300-1306

- **Sensory impairment and algorithmic classification of early cognitive impairment** *ALZHEIMER'S & DEMENTIA: DIAGNOSIS, ASSESSMENT & DISEASE MONITORING*
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