

Luo, Hao

Department of Social Work and Social Administration & Department of Computer Science
The University of Hong Kong
CJT 521, The Jockey Club Tower
Centennial Campus, HKU
Hong Kong

Phone: +852 39174373
Email: haoluo@hku.hk
ORCID: <http://orcid.org/0000-0003-3509-5823>
<https://scholar.google.com/citations?user=MS7-ik8AAAAJ>

Current Position

Assistant Professor (Tenure-track, joint appointment), Department of Social Work and Social Administration & Department of Computer Science, The University of Hong Kong 2017–present.

Honorary Appointments

Honorary Research Fellow, UCL School of Pharmacy. 2019–present.

Honorary Research Fellow, Sau Po Centre on Ageing, The University of Hong Kong. 2015–present.

Fellow, Hong Kong Jockey Club Centre for Suicide Research and Prevention, The University of Hong Kong. 2019–present.

Fellow, interRAI. 2017–present.

Education

Ph.D. Statistics, Uppsala University, Sweden, Aug 2007 - June 2011.

M.Sc. Statistics, Dalarna University, Sweden, Aug 2006 - June 2007.

B.Sc. Economics, Capital University of Economics and Business, Aug 2002 - July 2006.

Work Experience

Assistant Professor and Lecturer, Department of Sociology, Tsinghua University 2015–2017.

Postdoctoral Fellow, Sau Po Centre on Ageing, The University of Hong Kong 2014-2015.

Postdoctoral Fellow, Department of Sociology, Tsinghua University 2011–2013.

Summer Intern, United Nations Statistics Division, New York, USA 2010.

Part-time Work Experience

Honorary Lecturer, Department of Social Work and Social Administration, The University of Hong Kong 2014-2016.

Research Fellow, Tsinghua University Gerontology Center, 2015–2017.

Research Fellow, Institute for Accessibility Development, Tsinghua University, 2016–present.

Research and Scholarships

Grants and fellowships

1. 2020 International Big Data Network for Attention Deficit and / Hyperactivity Disorder: Development and Application of Data Platform. *Research Grants Council, Collaborative Research Fund 2019/2020*. Co-PI; 7,973,460 HKD
2. 2020 A Cloud-backed Smart Walker for the Elderly. *The Innovation and Technology Fund*. Co-I; 2,421,210 HKD
3. 2019 Predicting Dementia from Cognitive Footprints of Electronic Health Records Using Machine Learning. *Research Grants Council, Early Career Scheme (ECS) for 2019/2020*. PI; 630,200 HKD
4. 2019 Predicting and Managing Cardiovascular Risk Factors in People with Schizophrenia: A Population-Based Cohort Study. *Research Grants Council, General Research Fund (GRF) for 2019/2020*. Co-I; 355,839 HKD
5. 2019 When Both Spouses Have Functional Decline: Spousal Collaboration Dynamics in Mastering Daily Stressors Using Ecological Momentary Assessment *Research Grants Council, General Research Fund (GRF) for 2019/2020*. Co-I; 1,163,688 HKD
6. 2019 Hong Kong Jockey Club Charities Trust. HKJC Embrace My Age: A Partnered Solution for Better, Healthier, and Meaningful Ageing. Co-I; 12,961,209 HKD
7. Tools to Inform Policy: Chinese Communities' Action in Response to Dementia (TIP-CARD). *Research Grants Council, The Research Impact Fund (RIF) for 2018/2019*. Co-PI; 3,071,810 HKD
8. 2019-2020 HINCare: A Heterogeneous Information Network for Elderly-Care Helpers Recommendation. *The Innovation and Technology Fund*. Co-I; 4,066,400 HKD
9. 2019 Enhancing Measurement Precision by Utilizing Process Data: Development and Validation of a Tablet-Based Oxford Cognitive Screen. *The University of Hong Kong Seed Fund for Basic Research*. PI; 53,260 HKD
10. 2018-2019 Early Identification of Older Adults at High Risk of Suicide Using a Standardized Assessment System. *The University of Hong Kong Seed Fund for Basic Research*. PI; 150,000 HKD
11. 2018-2019 An Epidemiological Study of Health Care Disparities in Schizophrenia. *The University of Hong Kong Seed Fund for Basic Research*. Co-I; 79,320 HKD
12. 2016-2018 Cyrus Tang Young Scholar Scholarship. *Cyrus Tang Foundation*. 300,000 RMB
13. 2016 A Study on Enhancing the Gerontological Social Work Practice in Beijing. *Beijing Municipal Government*. PI; 80,000 RMB
14. 2016 Long-term Care Insurance Policy from an International Perspective. *China Development Research Foundation*. Co-I; 500,000 RMB
15. 2016 A Pilot Study on Fitness Test and Health Intervention for Older Adults in Beijing, Tianjin, and Hebei (Seed Grant). *Beijing Technology Committee*. Co-I; 100,000 RMB
16. 2015 GrandMove Project to Promote Elders' Robustness against Frailty,. *Simon K.Y. Lee Foundation*. Co-I; 5,292,622 HKD
17. 2015 A study on the Development of Social Enterprises in Beijing. *Beijing Municipal Government*. Co-I; 80,000 RMB

18. 2015 A Feasibility Study on Building an Information System for Administrating Home Care Service Provision in China. *China Population Welfare Foundation*. Co-I; 400,000 RMB
19. 2014 A Study on Long-Term Care and Current Health Care System in China. *Department of Family Planning and Family Development, National Health and Family Planning Commission of the People's Republic of China (NHFPC)*. Co-I; 100,000 RMB
20. 2014 A Project on Studying the Past and Present of Aging Policies in Selected Countries and Regions in Asia . *China National Committee on Aging (CNCA)*. Co-I; 200,000 RMB
21. 2013 An Evaluation of the Physical and Mental Health Status Among Chinese Older Adults in Nursing Homes Using interRAI LTCF Instruments. *China Postdoctoral Foundation*. PI; 150,000 RMB

Journal publications

1. Chai Y., **Luo, H.***, Wong, G.H., Tang J.Y., Lam, T., Wong I.C. & Yip, S.Y. (2020). Risk of self-harm after the diagnosis of psychiatric disorders: A nested case-control study in Hong Kong, 2000-2010. *The Lancet Psychiatry*, 7(2), 135-147. doi: 10.1016/S2215-0366(20)30004-3 (IF: 18.329 in 2018; Q1, rank 2/146 in Psychiatry)
2. Ilomäki, J.* , Bell, J. S., Chan, A., Tolppanen, A. M., **Luo, H.**, Wei, L., Lai, E. C., Shin, J. Y., De Paoli, G., Pajouheshnia, R., Ho, F. K., Reynolds, L., Lau, K. K., Crystal, S., Lau, W., Man, K., Brauer, R., Chan, E. W., Shen, C. Y., Kim, J. H., . . . Wong, I. (2020). Application of Healthcare 'Big Data' in CNS Drug Research: The Example of the Neurological and mental health Global Epidemiology Network (NeuroGEN). *CNS drugs*, 34(9), 897-913. doi: 10.1007/s40263-020-00742-4
3. Huang, Y., **Luo, H.**, Ko, N.* et al. (2020). Perceived Attitudes Toward Lesbian, Gay, and Bisexual (LGB) Issues and Mental Health Among Taiwanese LGB Adults: The Mediating Role of Self-Acceptance. *Arch Sex Behav*, 49, 1671-1682. doi: 10.1007/s10508-020-01686-y
4. **Luo, H.**, Andersson B, Tang JYM, Wong GHY*. (2020) Applying Item Response Theory Analysis to the Montreal Cognitive Assessment in a Low-Education Older Population. *Assessment*. 27(7), 1416-1428. doi: 10.1177/1073191118821733 (IF: 3.804 in 2018; Q1, rank 14/130 in Psychology, Clinical)
5. **Luo, H.**, Lou, V. W.* , Chen, C., & Chi, I. (2020). The Effectiveness of the Positive Mood and Active Life (PMAL) Program on Reducing Depressive Symptoms in Long-term Care Facilities. *The Gerontologist*. 60 (1), 193-204. (IF: 3.628 in 2018; Q1, rank 3/36 in Gerontology)
6. Liu, T., **Luo, H.**, Tang, J. Y., & Wong, G. H.* (2020). Does lifestyle matter? Individual lifestyle factors and their additive effects associated with cognitive function in older men and women. *Aging & mental health*, 24 (3), 405-412. doi: 10.1093/geront/gny120 (IF: 2.956 in 2018; Q1, rank 7/36 in Gerontology)
7. Tang, J. Y. M., Wong, G. H. Y., **Luo, H.**, Liu, T., & Lum, T. Y. S.* (2019) Cognitive changes associated with mentally active lifestyle and structured cognitive programs: a 2-year longitudinal study. *Aging & mental health*, 1-8. (in press) doi: 10.1080/13607863.2019.1636204 (IF: 2.956 in 2018; Q1, rank 7/36 in Gerontology)
8. Chai Y., **Luo, H.**, Zhang, Q.* , Cheng, Q., Lui C.S., & Yip, S.Y. (2019) Developing an early warning system of suicide using Google Trends and media reporting. *Journal of Affective Disorders*, 255, 41-49. doi: 10.1016/j.jad.2019.05.030 (IF: 4.084 in 2018; Q1, rank 21/142 in Psychiatry)
9. Tang, J.Y.M., **Luo, H.**, Wong, G.H.Y., Lau, M.M.Y., Lau, G.M.J., Tse, M.A., Ip, P., Wong, I.C.K., Lum, T.Y.S.* (2019) Bone Mineral Density from Early to Middle Adulthood in Persons with Down Syndrome. *Journal of Intellectual Disability Research*, 63(8), 936-946. doi: 10.1111/jir.12608. (IF: 1.941 in 2018; Q1, rank 8/41 in Education, Special, rank 13/69 in Rehabilitation)

10. **Luo, H.**, Lou, V.W., Li Y., & Chi, I. (2018). Development and Validation of a Prognostic Tool for Identifying Residents at Increased Risk of Death in Long-Term Care Facilities. *Journal of Palliative Medicine*, 22 (3), 258-266. doi: 10.1089/jpm.2018.0219. (IF: 2.477 in 2018; Q2, rank 38/98 in Health Care Sciences & Services)
11. Pei, X.* , **Luo, H.**, Lin, Z., Keating, N., & Fast, J. (2017). The Impact of Eldercare on Adult Children's Health and Employment in Transitional China. *Journal of Cross-Cultural Gerontology*, 32(3), 357-372.
12. Xu, J. Q., Choy, J. C., Tang, J. Y., Liu, T. Y., **Luo, H.**, Lou, V. W., & Wong, G. H.* (2017). Spontaneously Reported Symptoms by Informants Are Associated with Clinical Severity in Dementia Help-Seekers. *Journal of the American Geriatrics Society*, 65(9), 1946-1952. doi: 10.1111/jgs.14931 (IF: 4.113 in 2018; Q1, rank 2/36 in Gerontology, rank 13/53 in Geriatrics & Gerontology)
13. Liu, T., Wong, G. H., **Luo, H.**, Tang, J. Y., Xu, J., Choy, J. C., & Lum, T. Y.* (2017). Everyday cognitive functioning and global cognitive performance are differentially associated with physical frailty and chronological age in older Chinese men and women. doi: 10.1080/13607863.2017.1320700 *Aging & Mental Health*, 22(8), 936-941. (IF: 2.956 in 2018; Q1, rank 7/36 in Gerontology)
14. Jin, S.* , **Luo, H.**, & Yang-Wallentin, F. (2016). A Simulation Study of Polychoric Instrumental Variable Estimation in Structural Equation Models. *Structural Equation Modeling*, 23(5), 680-694. doi: 10.1080/10705511.2016.1189334 (IF: 4.426 in 2018; Q1, rank 1/49 in Social Sciences, Mathematical methods, 3/105 in Mathematics, interdisciplinary applications)
15. Lum, T. Y.* , Lou, V. W., Chen, Y., Wong, G. H., **Luo, H.**, & Tong, T. L. (2016). Neighborhood support and aging-in-place preference among low-income elderly Chinese city-dwellers. *The Journals of Gerontology Series B: Psychological Sciences and Social Sciences*, 71(1), 98-105. doi: 10.1093/geronb/gbu154 (IF: 3.418 in 2018; Q1, rank 5/36 in Gerontology, rank 19/137 in Psychology, Multidisciplinary)
16. Chen, Y. Y.* , Wong, G. H., Lum, T. Y., Lou, V. W., Ho, A. H., **Luo, H.**, & Tong, T. L. (2016). Neighborhood support network, perceived proximity to community facilities and depressive symptoms among low socioeconomic status Chinese elders. *Aging & Mental Health*, 20(4), 423-431. doi: 10.1080/13607863.2015.1018867 (IF: 2.956 in 2018; Q1, rank 7/36 in Gerontology)
17. **Luo, H.**, Lum, T. Y.* , Wong, G. H., Kwan, J. S., Tang, J. Y., & Chi, I. (2015). Predicting adverse health outcomes in nursing homes: A 9-year longitudinal study and development of the FRAIL-Minimum Data Set (MDS) Quick Screening Tool. *Journal of the American Medical Directors Association*, 16(12), 1042-1047. doi: 10.1016/j.jamda.2015.09.006 (IF: 4.899 in 2018; Q1, rank 6/53 in Geriatrics & Gerontology)
18. **Luo, H.**, Tang, J. Y., Wong, G. H., Chen, C. C., Lum, T. Y., Chi, I., & Lou, V. W.* (2015). The effect of depressive symptoms and antidepressant use on subsequent physical decline and number of hospitalizations in nursing home residents: A 9-year longitudinal study. *Journal of the American Medical Directors Association*, 16(12), 1048-1054. doi: 10.1016/j.jamda.2015.06.016 (IF: 4.899 in 2018; Q1, rank 6/53 in Geriatrics & Gerontology)
19. **Luo, H.**, Wong, G. H.* , Lum, T. Y., Luo, M., Gong, C. H., & Kendig, H. (2015). Health expectancies in adults aged 50 years or older in China. *Journal of Aging and Health*, 28(5), 758-774. doi: 10.1177/0898264315611663 (IF: 2.007 in 2018; Q2, rank 15/36 in Gerontology)
20. Tang, J. Y. M.* , Ho, A. H. Y., **Luo, H.**, Wong, G. H. Y., Lau, B. H. P., Lum, T. Y. S., & Cheung, K. S. L. (2015). Validating a Cantonese short version of the Zarit Burden Interview (CZBI-Short) for dementia caregivers. *Aging & Mental Health*, 20(9), 996-1001. doi: 10.1080/13607863.2015.1047323 (IF: 2.956 in 2018; Q1, rank 7/36 in Gerontology)

21. Yeatts, D. E. *, Cready, C. M., Pei, X., Shen, Y., & **Luo, H.** (2014). Environment and subjective well-being of rural Chinese elderly: A multilevel analysis. *The Journals of Gerontology Series B: Psychological Sciences and Social Sciences*, 69(6), 979-989. doi: 10.1093/geronb/gbu050 (IF: 3.418 in 2018; Q1, rank 5/36 in Gerontology, rank 19/137 in Psychology, Multidisciplinary)
22. **Luo, H.***, & Mao, Z.* (2014). From fertility intention to fertility behaviour: An empirical study in China's Jiangsu province based on the theory of planned behaviour. *Asian Population Studies*, 10(2), 195-207. doi: 10.1080/17441730.2014.902162 (IF: 1.000 in 2018; Q4, rank 22/29 in Demography)
23. Kun, P., Tong, X., Liu, Y., Pei, X., & **Luo, H.** (2013). What are the determinants of post-traumatic stress disorder: age, gender, ethnicity or other? Evidence from 2008 Wenchuan earthquake. *Public Health*, 127(7), 644-652. doi: 10.1016/j.puhe.2013.04.018 (IF: 1.696 in 2018; Q2, rank 75/164 in Public Environmental & Occupational Health)
24. Kun, P., Liu, Y., Pei, X., & **Luo, H.** (2013). Regional and urban-rural disparities in prevalence of over-weight among old people in China: Evidence from four Chinese provinces. *Journal of Nutrition, Health & Aging*, 17(10), 859-864. doi: 10.1007/s12603-013-0343-x
25. Yeatts, D. E., Pei, X., Cready, C. M., Shen, Y., **Luo, H.**, & Tan, J. (2013). Village characteristics and health of rural Chinese older adults: Examining the CHARLS pilot study of a rich and poor province. *Social Science & Medicine*, 98, 71-78. doi: 10.1016/j.socscimed.2013.08.041 (IF: 3.087 in 2018; Q1, rank 3/45 in Social Sciences, Biomedical)
26. Yang-Wallentin, F., Jöreskog, K. G., & **Luo, H.** (2010). Confirmatory factor analysis of ordinal variables with misspecified models. *Structural Equation Modeling*, 17(3), 392-423. doi: 10.1080/10705511.2010.489003 (IF: 4.426 in 2018; Q1, rank 1/49 in Social Sciences, Mathematical methods, 3/105 in Mathematics, interdisciplinary applications)

Scholarly books, monographs and chapters

Shum, M. H. Y., Ho, A. H. Y., Luo, H., Wang, J. F., Wang, Y., & Lum, T. Y. S. (2016) Protecting the rights of Chinese elders in need of residential care: The social justice and health equity dilemma in the People's Republic of China. In Meenan H; Rees N & Doron I (Eds.), *Towards Human Rights in Residential Care for Older Persons: International Perspectives* (pp. 66-84). Abingdon, Oxon, UK: Routledge. Peer-reviewed.

Luo, H. (2012) *Some Aspects on Confirmatory Factor Analysis of Ordinal Variables*. Germany: LAP Lambert Academic Publishing. 236 pages. Not peer-reviewed.

Conference presentations

Luo, H. & Wong, G.H.Y. (2018, September). REPORTED INTENTION FOR NURSING HOME PLACEMENT AND ITS ASSOCIATED FACTORS AMONG URBAN CHINESE OLDER ADULTS. Presented at The International Long-term care Policy Network (ILPN) conference 2018. Vienna, Austria.

Luo, H. & Andersson, B. (2018, July). DETERMINING MINIMUM SAMPLE SIZE REQUIRED FOR STRUCTURAL EQUATION MODELS WITH CONTINUOUS AND ORDINAL DATA. Presented at International Meeting of Psychometric Society (IMPS) 2018. Columbia University, New York.

Tang, Y. M. J., Wong, G. H. Y., Luo, H. A. O., Lau, M. Y., Joe, G. M., Tse, M. A., & Lum, T. Y. S. (2015, November). GENDER DIFFERENCE IN BONE MINERAL DENSITY, CARDIOVASCULAR FITNESS, AND MUSCLE STRENGTH IN ADULTS WITH DOWN SYNDROME. Presented at 2015 GSA Annual Scientific Meeting. *The Gerontologist* 55(Suppl 2), 850. doi: 10.1093/geront/gnv480.04

Tse, M., Tang, J. Y., Luo, H., Wong, G., Joe, G. M., & Lum, T. Y. (2015, November). DIFFERENTIAL AGE-RELATED CHANGE IN BONE MINERAL DENSITY AND TOTAL BODY LEAN MASS BETWEEN ADULTS WITH AND WITHOUT DOWN SYNDROME. Presented at 2015 GSA Annual Scientific Meeting. *The Gerontologist* 55(Suppl 2),850. doi: 10.1093/geront/gnv480.03

Lum, T. Y., Luo, H., Tang, J. Y., Joe, G. M., Wong, G., & Tse, M. (2015, November). COMPARISON OF THE PEAK BONE MINERAL DENSITY IN ADULTS WITH AND WITHOUT DOWN SYNDROME. Presented at 2015 GSA Annual Scientific Meeting. *The Gerontologist* 55(Suppl 2), 849-850. doi: 0.1093/geront/gnv480.02

Luo, H., Lum, T. Y. S., Wong, G. H. Y., & Jiang, N. (2014, November). TRAJECTORY OF HEALTH AND FUNCTIONING OF MINORITY IMMIGRANT ELDERS: A LATENT GROWTH CURVE ANALYSIS. Presented at 2014 GSA Annual Scientific Meeting. *The Gerontologist* 54(Suppl 2), 357. doi: 10.1093/geront/gnu106

Luo, H. & Pei, X. (2013, November). ON MODELING THE RELATIONSHIP BETWEEN SOCIAL CAPITAL AND HEALTH OUTCOMES FOR CHINA'S OLDER ADULTS: A STRUCTURAL EQUATION MODELING APPROACH. Presented at the 20th World Congress of the International Association of Gerontology and Geriatrics (Seoul). *The Gerontologist* 53, 97.

Pei, X. & Luo, H. (2012, November). FAMILY SUPPORT IN THE CONTEXT OF RAPID SOCIAL TRANSITION: THE EXPERIENCE OF CHINA. Presented at 2012 GSA Annual Scientific Meeting. *The Gerontologist* 52, 662.

Technical reports

Luo, H. (2011). Generation of Non-normal Data: A Study of Fleishman's Power Method.

Invited talks

2019 "Big Data Analytics in Health and Mental Health", Big data and Human Behaviour seminar series, Tsinghua University Shenzhen Graduate School, May 6, 2019, 7:00-9:30 PM.

2018 "Identifying Frail Elderly Using Machine Learning Techniques", Big data and Human Behaviour seminar series, Tsinghua University Shenzhen Graduate School, May 7, 2018, 7:00-9:30 PM.

2018 "Using Item Response Theory to Address the Limitations of Sum Scores: The Montreal Cognitive Assessment Example", Educational and Psychological Measurement Colloquium Series, The University of Hong Kong, May 24, 2018, 1:00-2:00 PM.

2016 "Promoting Better Home Care Service in China: The Role of interRAI Instruments", China-Japan Older Adults Health Forum, Beijing, May 30, 2016, 10:00-10:30 AM.

2016 "Environment and Subjective Well-Being of Rural Chinese Elderly: A Multilevel Analysis", (Dale E. Yeatts, Cynthia M. Cready (invited presenter), Xiaomei Pei, Yuying Shen, Hao Luo), Lee Kuan Yew Centre for Innovative Cities (LKY CIC) Brown Bag Lunch Series, Singapore University of Technology and Design, Singapore, June 8, 2016, 12:00-1:00 PM.

Editorial Board membership

2017-present, statistical advisor, the Statistical Advisory Board for *PLOS ONE*

Teaching and Learning

Department of Social Work and Social Administration, The University of Hong Kong

PhD level

Statistical Methods for Social Sciences

Responsible teacher

Autumn 2019

TPG

Social Work Research

Responsible teacher

Spring 2014; Autumn 2017, 2018

Department of Computer Science, The University of Hong Kong

Undergraduate level

Introduction to Statistical Learning

Responsible teacher

Autumn 2018; Autumn 2019

The University of Hong Kong

Undergraduate level Common Core Course

Big Data Solutions to Social Problems: the Good, the Bad and the Ugly

Responsible teacher

Spring 2019

Department of Sociology, Tsinghua University

Graduate level

Statistical Methods for Social Sciences - intermediate level

Responsible teacher

Autumn 2012; Autumn 2013; Spring 2015; Autumn 2015; Autumn 2016

Big Data Analysis (A)

Collaborative teacher in charge of the statistical learning part

Autumn 2014 (as guest lecturer); Autumn 2015; Autumn 2016

Big Data and Social Sciences: Research Methodology Workshop

Guest lecturer: "an overview of structural equation modeling"

Autumn 2016

Undergraduate level

Statistical Methods for Social Sciences

Responsible teacher

Autumn 2013; Autumn 2015; Autumn 2015; Autumn 2016

Summer English Training

Responsible teacher

Summer 2013; Summer 2015; Summer 2016

MOOC - Online course for the general public

Statistical Methods for Social Sciences with an Application in R

Responsible teacher

Spring (5800 users registered) and Autumn (3414 users registered) 2016

www.xuetangX.com

Department of Statistics, Uppsala University

Graduate level

Applied Statistical Methods

Collaborative teacher

Autumn 2008; Autumn 2009; Autumn 2010

Asymptotic Theory

Teaching Assistant

Autumn 2010

Undergraduate level

Probability Theory and Statistical Inference

Teaching Assistant

Autumn 2007; Autumn 2008; Autumn 2009; Autumn 2010

Pedagogical courses completed

2019 Professional Certificate in Teaching and Learning, Centre for the Enhancement of Teaching and Learning (CETL), The University of Hong Kong

2015 Academic Teacher Training Course, Tsinghua University.

2008 Academic Teacher Training Course, Division for Quality Enhancement, Academic Teaching and Learning, Uppsala University.

Teaching prize and awards

2016 MOOC Teaching Pioneer Award, Tsinghua University xuetangX.com

2016 Second prize, Tsinghua University the 7th Young Scholar Teaching Competition

Computer experience

Experience in programming using R and MATLAB.

Experience in working with STATA, SAS, LISREL, MATLAB, Minitab, R, SPSS and in using L^AT_EX.

Professional memberships

The Psychometric Society (2009–Present)

Gerontological Society of America (2012–Present)

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