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Education

Ph.D. Statistics, Uppsala University, 2011-05-06.

Thesis: *Some Aspects on Confirmatory Factor Analysis with Ordinal Variables and Generating Non-normal Data*

Main advisor: Fan Yang-Wallentin

Assistant advisors: Karl Jöreskog and Johan Lyhagen

M.Sc. Statistics, Dalarna University, 2007.

Thesis: *Defining the Reference Range of 8-iso-PGF_{2α} for Pregnant Women*

Supervisor: Johan Bring

B.Sc. Economics, Capital University of Economics and Business, 2006.

Employment

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

Assistant Professor, Department of Sociology, Tsinghua University 2016–2017.

Lecturer, Department of Sociology, Tsinghua University 2015–2016.

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

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

Scholarly books, monographs and chapters

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 Not peer-reviewed.

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.

Journal publications

1. **Luo, H.**, Lou, V. W., Chen, C., & Chi, I. (in press). The Effectiveness of the Positive Mood and Active Life (PMAL) Program on Reducing Depressive Symptoms in Long-term Care Facilities. *The Gerontologist*.
2. 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.
3. 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*.
4. 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. *Aging & Mental Health*, 1-6.
5. 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
6. 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
7. 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.
8. **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
9. **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
10. **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

11. 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
12. 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
13. **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
14. 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
15. 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
16. 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
17. 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.

Conference presentations

- 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: 10.1093/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

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 Member, the Statistical Advisory Board for *PLOS ONE*

Grants and fellowships

1. 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*.
150,000 HKD
2. 2018-2019 An Epidemiological Study of Health Care Disparities in Schizophrenia. *The University of Hong Kong Seed Fund for Basic Research*.
79,320 HKD
3. 2016-2018 Cyrus Tang Young Scholar Scholarship. *Cyrus Tang Foundation*.
300,000 RMB
4. 2016 A Study on Enhancing the Gerontological Social Work Practice in Beijing. *Beijing Municipal Government*.
PI; 80,000 RMB

5. 2016 Long-term Care Insurance Policy from an International Perspective. *China Development Research Foundation*.
Co-I; 500,000 RMB
6. 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
7. 2015 GrandMove Project to Promote Elders' Robustness against Frailty,. *Simon K.Y. Lee Foundation*.
Co-I; 5,292,622 HKD
8. 2015 A study on the Development of Social Enterprises in Beijing. *Beijing Municipal Government*.
Co-I; 80,000 RMB
9. 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
10. 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
11. 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
12. 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

Teaching and Learning

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

Graduate level

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

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

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

2015 Academic Teacher Training Course, Tsinghua 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)