

## Summary Biography of Yi Zeng

Yi Zeng is a tenured Professor of Population Science of National School of Development (NSD) and Honorary Director of Center for Healthy Aging and Development Studies at Peking University (PKU). He is also a tenured Professor at the Center for Study of Aging and Human Development and Geriatric Division of School of Medicine, and Director of Center for Chinese Population and Socioeconomic Studies, Duke University. He is a member of The World Academy of Sciences (TWAS) for the advancement of science in developing countries, and a foreign member of the Royal Netherlands Academy of Arts and Sciences. He is Distinguished Research Scholar of the Max Planck Institute for Demographic Research (MPIDR) in Germany.

He received his doctoral degree with Summa Cum Laude from Brussels Free University in May 1986. He conducted post-doctoral study at Princeton University in 1986-87. Up to Oct. 15, 2021, he has had 234 professional articles written in English published internationally in academic journals or as book chapters; among them, 200 articles were published in anonymously peer-reviewed academic journals in English abroad (the others are English book chapters and mainly editors-determined journal articles). He has had 185 professional articles written in Chinese and published in China and among them 121 articles were published in Chinese anonymously peer-reviewed academic journals (the others are Chinese book chapters and mainly editors-determined journal articles). He published thirty-one academic books, including eleven books written in English published by well-known Presses in U.S. and Europe and 20 books written in Chinese published by the famous Chinese Presses. He has published 18 articles related to demographics, socioeconomics and policy issues at public media and he has written and submitted 51 policy reports which were submitted/distributed to the policy makers by the relevant governmental agencies.

Yi Zeng has been awarded four international academic prizes and sixteen national academic prizes of China, such as: The IUSSP Laureate (2021), the 2011 Paper of the Year Award of *American Journal of Public Health*, the Dorothy Thomas Prize of the Population Association of America, the Harold D. Lasswell Prize in Policy Science awarded by the international journal *Policy Sciences* and Kluwer Academic Publishers, the national prizes for advancement of science and technology awarded by the State Sciences and Technology Commission of China and the State Education Commission, the highest academic honor of Peking University: "Prize for Outstanding Contributions in Sciences," and the "Chinese Population Prize (Science and Technology)", jointly awarded by nine ministries and seven national non-governmental associations in China. He received "National Medal of Outstanding Contributions" awarded by the Central Government of China in celebration of 70 years of establishment of People's Republic of China, Sept. 2019. According to the official search report by Duke University Library based on Google Scholar database, up to September, 2021, Yi Zeng's articles and books have been cited 16,896 times by other scholars' publications, his h-index is 61 and i10-index is 192. Yi Zeng was one of the authors of "High Impact Papers" worldwide in the period of 1981 -1998, as announced by International Scientific Institute (ISI) in September, 2000. Yi Zeng was included in the Elsevier 2018 honorary list of "Highly Cited Chinese Scholars".

**Birth Date:** Sept. 5, 1952; **Birthplace:** Nanchang, China; **Nationality:** Chinese.  
Email: zengyi@nsd.pku.edu.cn

## **EDUCATION**

East China Normal University, Shanghai, 1978-1982, B.A. degree in Science (Geography).

Brussels Free University, 1982-1986, Ph.D. degree in Demography, Summa Cum Laude. Title of Ph.D. Dissertation: Family Dynamics in China: the Model and its Application. Ph.D. advisors: Professor Frans Willekens and Professor Ron Lesthaeghe.

Netherlands Interdisciplinary Demographic Institute, 1984-1986, Ph.D thesis research under supervision of Professor Frans Willekens.

Princeton University, 1986-87, Post-Doctoral research certificate in Demography. Post-doc advisor: Professor Ansley Coale.

## **PROFESSIONAL APPOINTMENTS**

### Professional appointments in China:

Professor (with tenure), China Center for Economic Research, National School of Development, Peking University, Jan. 1, 2003 – Present.

Director, Center for Healthy Aging and Development Studies (it was called Center for Healthy Aging and Family Studies before Jan. 2010), Peking University, May 2001—Dec. 2017.

Professor, Institute of Population Research, Peking University, May 1989 – Dec. 31 2002.

Associate Professor, Institute of Population Research at Peking University, August 1987 - May 1989.

Director, Institute of Population Research at Peking University, Feb. 1993 - June 1998.

Deputy Director, Institute of Population Research at Peking University, August 1987 - Jan. 1993.

### Professional appointments in USA:

Professor (with tenure) at the Center for Study of Aging and Human Development and Geriatric Division, School of Medicine, and Institute of Population Research and Department of Sociology, Duke University, July 1, 2006 – Present.

Research Professor, Center for Demographic Studies and Department of Sociology, Duke University, July 1, 2002 – June, 2006.

Senior Research Scientist (with rank of full professor), Center for Demographic Studies and Department of Sociology, Duke University, Jan. 1, 1999 – June, 2002.

Director, Center for Chinese Population and Socioeconomic Studies, Duke University, Sept. 2000 – Present.

Visiting Professor, Economic Growth Center, Yale University, July 1, 1991 - Sept. 31, 1991; June 16, 1992 - August 15, 1992; July 16, 1994 - August 31, 1994.

Adjunct Professor (conducted research and taught courses for one quarter per year from 1992 to 1998), Humphrey Institute for Public Affairs at the University of Minnesota, March 16 - June 15, 1992; March 16 - June 13, 1993; March 16 - June 13, 1994; April 24 - June 8, 1995; Sept. 25 - Dec. 25, 1996; March 27 - May 26, 1998.

Post-doctoral research fellow, Office of Population Research of Princeton University, Sept. 1, 1986 - August 30, 1987.

### Professional appointments in Germany:

Distinguished Research Scholar, Max Planck Institute for Demographic Research (MPIDR), Germany, MPIDR had a specially reserved fund to support one-month summer visiting research in Germany by Yi Zeng and his two research associates in 1998-2018.

Head of the Research Unit on Aging and Family Dynamics at Max Planck Institute for Demographic Research, Dec. 1996 – Dec. 1998.

Professional appointments in Netherlands:

Visiting Research Professor, Netherlands Interdisciplinary Demographic Institute, July 1, 1989 - Sept. 30, 1989.

Consultant and Teacher for the training workshop, May 1, 1986 - June 30, 1986, Research Center of International Statistical Institute, The Hague.

Visiting Research Scientist, Netherlands Interdisciplinary Demographic Institute, April 1984 - Aug. 1986.

Professional appointments in Denmark and Austria:

Visiting Professor, Center for Health and Social Policy, Medical School of Odense University, Denmark, July 2, 1995 - Sept. 1, 1995; August 15, 1996 - Sept. 24, 1996.

Young Scientist, International Institute of Systems Analysis, Vienna, June 1 - Sept. 31, 1985.

**MEMBERSHIP OF ACADEMY OF SCIENCE**

Foreign member of the Royal Netherlands Academy of Arts and Sciences, May 2010 – Present.

Member of The World Academy of Sciences (TWAS) for the advancement of science in developing countries, November 2018 – Present.

**MEMBERSHIP IN SCHOLARLY SOCIETIES**

International Union for Scientific Studies of Population

Population Association of China

Asian Population Association

Population Association of America

Gerontology Society of America

**PROFESSIONAL PRIZES, AWARDS and HONORS**

**International Prize, awards and honors**

- 1) Dorothy Thomas Prize of the Population Association of America, in recognition of excellence for the article "Changes in Family Structure in China: A Simulation Study" (May, 1987).
- 2) Harold D. Lasswell Prize awarded by the North America-based international journal *Policy Sciences* and Kluwer Academic Publishers (Jan. 1993), in recognition of excellence for the article "Population Tradeoffs in China," co-authored with J. Vaupel.
- 3) The 2011 Paper of the Year Award of *American Journal of Public Health* for the paper: Yi

Zeng, Danan Gu, Jama Purser, Helen Hoeing, and Nicholas Christakis. "Associations of Environmental Factors with Elderly Health and Mortality in China." *American Journal of Public Health* 2010;100(2):298-305.

- 4) IUSSP Laureate (2021), IUSSP (International Union for Scientific Studies of Populations) was established in 1928 with members from all developed countries and developing countries all over the world. IUSSP selects and presents one demographer to receive IUSSP Laureate Award annually.
- 5) Invited by the International Organization REVES (Réseau Espérance de Vie en Santé) to deliver the *George Myers Memorial Lecture* of 1.5-hour at the 20<sup>th</sup> conference of REVES, May 7-9, 2008 held in Manila, Philippines. Yi Zeng's lecture was on "Can Humans Achieve the Goal of Longer Life and Healthy Aging? -- Lessons Learned from Chinese Longitudinal Healthy Longevity Study.

### **National Prize, awards and honors**

- 1) The first-class prize for outstanding achievement in science and technology, awarded by the State Education Commission. (Jan. 1990);
- 2) The first-class He Yindong prize for young scientists who have outstanding research achievements, awarded by the State Education Commission (Dec. 1990);
- 3) The second-class national prize for outstanding achievement in science and technology, awarded by the State Sciences and Technology Commission (Nov. 1991).
- 4) The first-class prize for outstanding contribution in philosophy and social sciences, awarded by Beijing Municipality (Dec. 1991).
- 5) The Honorary certificate and title "Nationally Distinguished Scientists of Young and Middle Ages," awarded by the State Council (March 1992).
- 6) The highest academic honor of Peking University "Prize for Outstanding Contributions in Sciences" (Sept. 1994).
- 7) The first-class prize for an outstanding contribution in population science, awarded by the State Family Planning Commission and China Population Association (Jan. 1994).
- 8) The first-class national prize for an outstanding contribution in philosophy and social sciences, awarded by the State Education Commission of China (Nov. 1995).
- 9) Excellent textbook prize awarded by the State Education Commission of China (Dec. 1995).
- 10) The first-class national prize for an outstanding contribution in philosophy and social sciences, awarded by the Ministry of Education (1999).
- 11) The second-class prize of publicly bidding research projects on China's second agricultural census data analysis, jointly awarded by China's Second Agricultural Census Office under State Council and State Statistical Bureau, July, 2009.
- 12) The Chinese Population Prize (Science and Technology), jointly awarded by nine ministries and seven national non-governmental associations/organizations of China (2009). The Chinese Population Prize (Science and Technology) is given once every three years to no more than four most prominent scholars who made outstanding contributions in scientific research and technology innovations concerning population health and well-being.
- 13) Excellent Paper Award of the 20th World Congress of Gerontology and Geriatrics (China-

South Korea Forum): Yi Zeng, "Chinese Longitudinal Healthy Longevity Survey -- to Facilitate Deeper Research and Better Policy for Healthy Aging," Awarded by the Association of Gerontology of China, June, 2013.

- 14) The book entitled "Healthy Aging in China: Trends and Determinants" (Yi Zeng is a major author and Editor-in-Chief of this book, published by Science Press) was awarded a title and certificate of "National Philosophy and Social Sciences Outstanding Achievements Book (2017)", which is the highest books honor of Philosophy and Social Sciences in China.
- 15) The second-class prize of National Medical Sciences, awarded by China Association of Medical Sciences (Yi Zeng is listed as the second awardee), 2018.
- 16) National Medal of Outstanding Contributions awarded by the Central Government of China in celebration of 70 years of establishment of People's Republic of China, Sept. 2019.

Yi Zeng has been included (free of charge, as a distinguished scholar) in more than ten international biographical publications of WHO'S WHO. For example, "MEN OF ACHIEVEMENT," "INTERNATIONAL WHO'S WHO OF INTELLECTUALS," and "WHO'S WHO IN AUSTRALIA AND THE FAR EAST" by the International Biographical Center in Cambridge of England and "5,000 PERSONALITIES OF THE WORLD," "MEDAL OF HONOUR COMMEMORATING DISTINGUISHED LIFELONG ACHIEVEMENTS," and "FIVE HUNDRED LEADERS OF INFLUENCE" by the American Biographical Institute.

## LIST OF PUBLICATIONS AND POLICY RESEARCH REPORTS BY YI ZENG

### 1. Publications written in English

#### 1.1. Peer-Reviewed BOOKS written in English

- (1) Zeng, Yi. 1990. *User's Manual and software of "FAMY" --- A PC Computer program for Family Status Life Table Analysis*. Groningen, The Netherlands: iec ProGAMMA (Inter-university Expert Center for Computer Software Development and Distribution).
- (2) Zeng, Yi, Zhang Chunyuan and Peng Shongjian (eds.). 1990. *Changing Family Structure and Population Aging in China: A Comparative Approach*. Beijing: Peking University Press (also distributed by Peking University Press' partners in Western countries).
- (3) Zeng, Yi. 1991. *Family Dynamics in China: A Life Table Analysis*. Wisconsin: The University of Wisconsin Press.
- (4) Zeng, Yi. 2004. *Population Aging and Family Research*. Beijing: Peking University Press (also distributed by Peking University Press' partners in Western countries).
- (5) Zeng, Yi, Gu Danan, Xiao Zhenyu, Tao Liqun. 2005. *Graphics of Socio-Demographic and Health Profiles of Oldest-Old in China* (in both English and Chinese). Beijing: China Population Press.
- (6) Zeng, Yi, Eileen Crimmins, Yves Carrière, Jean-Marie Robine (eds.). 2005. *Longer Life and Healthy Aging*. New York: Springer Publisher.
- (7) Jean-Marie Robine, Eileen M. Crimmins, Shiro Horiuchi, and Yi Zeng (eds.). 2006. *Human Longevity, Individual Life Duration, and the Growth of the Oldest-Old Population*. New York: Springer Publisher.
- (8) Zeng, Yi, Dudley Poston, Denese Ashbaugh Vlosky, and Danan Gu (eds.). 2008. *Healthy Longevity in China: Demographic, Socioeconomic, and Psychological Dimensions*. New York: Springer Publisher.

- (9) Zeng, Yi (ed.). 2009. "Demography" volume of the *Encyclopedia of Life Support Systems* (EOLSS) ([www.eolss.net](http://www.eolss.net)), coordinated by the UNESCO-EOLSS Committee. Oxford: EOLSS Publishers Co. Ltd.
- (10) Zeng, Yi, Kenneth C. Land, Danan Gu, and Zhenglian Wang. 2014. *Household and Living Arrangement Projections: The Extended Cohort-Component Method and Applications to the U.S. and China*. New York: Springer Publisher.
- (11) Zeng Yi, Lu JH, Lei XY and Shi XM (eds), 2021. Trends and Determinants of Healthy Aging in China. New York: Springer Nature Publisher (in press).

## 1.2. ARTICLES published in anonymous peer-reviewed journals

- 1) Zeng, Yi\*, J. Vaupel and A.Yashin. 1985. "Marriage and Fertility in China: A Graphical Analysis." *Population and Development Review* 11: 721-36.
- 2) Zeng, Yi\*. 1986 "Changes in Family Structure in China: a Simulation Study." *Population and Development Review* 12:675-703.
- 3) Zeng, Yi\*. 1988. "Changing Demographic Characteristics and the Family Status of Chinese Women." *Population Studies* 42: 183-203.
- 4) Zeng, Yi\* and J. Vaupel. 1989. "Impact of Urbanization and Delayed Childbearing on Population Growth and Aging in China." *Population and Development Review* 15: 425-445.
- 5) Zeng, Yi\* 1989. "Is China's Family Planning Program Tightening Up?" *Population and Development Review* Vol. 15, No. 2 :333-337.
- 6) Zeng, Yi\*. 1989. "Aging of the Chinese Population and the Policy Issues: Lessons Learned from a Rural-urban Dynamic Projection Model." Referred and selected articles for publication in *International Population Conference*, Volume 3: 81-101. Liege: International Union for Scientific Studies of Population, 21st General Conference.
- 7) Zeng, Yi\*, Tu Ping, Guo Liu and Xie Ying. 1991. "A Demographic Decomposition of Recent Increase in Crude Birth Rates in China." *Population and Development Review* 17: 435-458.
- 8) James W. Vaupel\* and Yi Zeng. 1991. "Population Tradeoffs in China." *Policy Sciences* 24: 389-406.
- 9) Zeng, Yi\*, Tu Ping, Gu Baochang, Xu Yi, Li Bohua and Li Youngping. 1993. "Causes and Implications of the Recent Increase in the Reported Sex Ratio at Birth in China." *Population and Development Review* 19: 283-302.
- 10) Zeng, Yi\*, J.W. Vaupel, and Wang Zhenglian. 1993. "Marriage and Fertility in China: 1950—1989." *Genus* Vol.49, No. 3/4, 17-34.
- 11) Zeng, Yi\*, and Wang Deming. 1993. "An Event History Analysis of Remarriage in China." Selected and referred article for publication in: *International Population Conference*, Volume 3: 323-335. Liege: International Union for Scientific Studies of Population, 22nd General Conference.
- 12) Zeng, Yi\*, A. Coale, M.K. Choe, Z. Liang, and L. Liu. 1994. "Leaving Parental Home: Census Based Estimates for China, Japan, South Korea, The United States, France, and Sweden." *Population Studies* 48: 65-80.
- 13) Zeng, Yi\*. 1995. "Aging in China: Progress and Policy Responses." *Reviews in Clinical Gerontology* 5: 77-83.

- 14) Zeng, Yi\*. 1995. "China's Agenda for an Old-age Insurance Program in Rural Areas." *Journal of Aging & Social Policy* 6: 101-14.
- 15) Schultz, T. Paul\* and Yi Zeng. 1995. "Fertility of Rural China: Effects of Local Family Planning and Health Programs." *Population Economics* 8: 329-50.
- 16) Ma, Z\* and K.L. Liaw and Yi Zeng. 1996. "Spousal Residence Separation Among Chinese Young Couples." *Environment and Planning A* 28: 877-8.
- 17) Zeng, Yi\*. 1996. "Is Fertility in China in 1991-1992 Far Below the Replacement Level?" *Population Studies* Vol. 50: 27-34.
- 18) Ma, Z.\*, K.L. Liaw, and Yi Zeng. 1997. "Migrations in the Urban/Rural Settlement System of China: Insights from the Micro Data of the 1987 National Survey." *Environment and Planning A* 29: 709-30.
- 19) Zeng, Yi\*, James W. Vaupel, and Wang Zhenglian. 1997. "A Multidimensional Model for Projecting Family Households -- With an Illustrative Numerical Application." *Mathematical Population Studies* 6: 187-216.
- 20) Zeng, Yi\*. 1997. "Dilemmas of Family Size Norms in China." Selected and referred article for publication in *International Population Conference*, Volume 3: 1405-1418. Liege: International Union for Scientific Studies of Population, 23rd General Conference.
- 21) Vaupel, J.W.\*, J.R. Carey, K. Christensen, T.E. Johnson, A.I. Yashin, N.V. Holm, I.A. Iachine, V. Kannisto, A.A. Khazaeli, P. Liedo, V.D.Longo, Yi Zeng, K.G. Manton, and J.W. Curtsinger. 1998. "Biodemographic Trajectories of Longevity." *Science*, 280: 855-60.
- 22) Zeng, Yi\*, James W. Vaupel and Wang Zhenglian. 1998. "Household Projection Using Conventional Demographic Data." *Population and Development Review*, Supplementary Issue: *Frontiers of Population Forecasting*. Volume 24: 59-87.
- 23) Wang Zhenglian, Yi Zeng\*, Bernard Jeune, and J.W. Vaupel. 1998. "Age Validation of Han Chinese Centenarians." *GENUS - An International Journal of Demography*, Vol. LIV: 123-141.
- 24) Schultz, T. Paul\* and Yi Zeng. 1999. "The Impact of Institutional Reform from 1979 to 1987 on Fertility in Rural China." *Chinese Economic Review* 10: 141-60. (The authors are listed alphabetically and share equally in the research design and analysis).
- 25) Zeng, Yi\*, Wang Zhenglian, Ma Zhongdong, Chen Chunjun. 2000. "A Simple Method for Estimating  $\alpha$  and  $\beta$ : An Extension of Brass Relational Gompertz Fertility Model." *Population Research and Policy Review*, Volume 19, No. 6, pp. 525-549.
- 26) Zeng, Yi\* and Linda George. 2000. "Family Dynamics of 63 Million (in 1990) to More Than 330 Million (in 2050) Elders in China." *Demographic Research*, Vol. 2, No. 5: 113-119.
- 27) Zeng, Yi\* and Wu Deqing. 2000. "A Regional Analysis of Divorce in China Since 1980." *Demography*, 37 (2): 215-219.
- 28) Zeng, Yi\* and Jiang Leiwen. 2000. "Does Rapid Economic Growth Accompanied by Massive Migration Necessarily Result in Severe Environmental Pollution? -- A Case Study of Pear River Delta in China." *Current Politics and Economics of China*, Vol. 3, No. 3. Pp. 427-445.
- 29) Zeng, Yi\* and Kenneth C. Land. 2001. "A Sensitivity Analysis of The Bongaarts-Feeney New Method for Adjusting Bias in Observed Period Total Fertility Rates." *Demography*, 38 (1): 17-28.

- 30) Zeng, Yi\*, James W. Vaupel, Xiao Zhenyu, Zhang Chunyuang and Liu Yuzhi. 2001. "The Healthy Longevity Survey and the Active Life Expectancy of the Oldest Old in China." *Population: An English Selection*, 13(1): 95-116.
- 31) Zeng, Yi\*, James W. Vaupel, Xiao Zhenyu, Zhang Chunyuang and Liu Yuzhi. 2001. "L'enquete sue la longevite en bonne sante: l'esperance de vie sans incapacite des personnes tres agees en Chine." *Population: Longevite*, 56(1/2): 109-132.
- 32) Zeng, Yi\* and Linda George. 2002. "Extremely Rapid Aging and the Living Arrangement of Elderly Persons: the Case of China." In *Living Arrangements of Older Persons, Population Bulletin of the United Nations, Special Issue Nos. 42/43*, New York: United Nations.
- 33) Zeng, Yi\* and Kenneth C. Land. 2002. "Adjusting Period Tempo Changes – with an Extension of Ryder's Basic Translation Equation." *Demography*, Vol. 39, No. 2, pp. 269-285.
- 34) Zeng, Yi\*. 2001. "A Demographic Analysis of Family Households in China, 1982-1995." *Journal of Comparative Family Studies*. Vol. 33, No. 1, pp. 15-34.
- 35) Zeng, Yi\*, James W. Vaupel, Xiao Zhenyu, Zhang Chunyuan and Liu Yuzhi. 2002. "Sociodemographic and Health Profiles of Oldest Old in China." *Population and Development Review*, Vol. 28, No. 2: 251-273.
- 36) Zeng, Yi\* and James W. Vaupel. 2002. "Functional Capacity and Self-Evaluation of Health and Life of the Oldest Old in China." *Journal of Social Issues*, 58: 733-748.
- 37) Zeng, Yi\*, T. Paul Schultz, Wang Deming, and Gu Danan. 2002. "Association of Divorce with Socio-economic Covariates in China, 1955-1985: Event History Analysis based on Data collected in Shanghai, Hebei, and Shaanxi." *Demographic Research*, Vol. 7, Article 11.
- 38) Zeng, Yi\*. 2002. "Aging in China." In: Ekerdt, David J. (ed.), *Encyclopedia of Aging*. Macmillan Reference USA, an Imprint of the Gale Group, New York; 224-228.
- 39) Zeng, Yi\*, Liu Yuzhi, and Linda George. 2003. "Gender Differentials of Oldest Old in China." *Research on Aging*. 25: 65-80.
- 40) Zeng, Yi\* and James W. Vaupel. 2003. "Oldest Old Mortality in China." *Demographic Research*, Vol. 8 (7): 215-244.
- 41) Zeng, Yi\* and Zhenglian Wang. 2003. "Dynamics of Family and Elderly Living Arrangements in China: New Lessons Learned from the 2000 Census." *The China Review*, Vol. 3, No. 2: 95-119.
- 42) Zeng, Yi\*; Gu, Danan, and Land, K. C. 2004. "A New Method for Correcting Underestimation of Disabled Life Expectancy and Application to Chinese Oldest-Old." *Demography*, Vol. 41 (2): 335-361.
- 43) Zeng, Yi\*, and Vaupel, J.W. 2004. "Association of Late Childbearing With Healthy Longevity among The Oldest-Old in China." *Population Studies*, 58(1): 37-53.
- 44) Zeng, Yi\*. 2004. "Chinese Longitudinal Healthy Longevity Survey and Some Research Findings." *Geriatrics and Gerontology International*, 2004; 4: S49-S52.
- 45) Zeng, Yi\*, Eric Stallard, and Zhenglian Wang. 2004. "Computing Time-Varying Sex-Age-Specific Rates of Marriage/Union Formation and Dissolution in Family Household Projection or Simulation." *Demographic Research*, 11, 264-299.
- 46) Zeng, Yi\*, George L., Vaupel J., Goodkind D. 2004. Chinese longitudinal healthy longevity survey: A unique data resource and research opportunities. *Gerontologist* 44:194-195.



- 47) Gu, Danan\*; and Zeng, Yi. 2004. Sociodemographic Effects on the Onset and Recovery of ADL Disability among Chinese Oldest-old. *Demographic Research*, 11, 1-44.
- 48) Zeng, Yi\*, Kenneth C. Land, Zhenglian Wang, and Gu Danan. 2006. "U.S. Family Household Momentum and Dynamics -- Extension of ProFamy Method and Application." *Population Research and Policy Review*, 25(1): 1-41.
- 49) Gu, Danan\*, Liu, Guangya, Vlosky, A. Denese and Zeng, Yi. (2007). Factors Associated with Place of Death among Chinese Oldest-old. *Journal of Applied Gerontology* 26(1), 34-57.
- 50) Zeng, Yi\*, Danan Gu, and Kenneth C. Land. 2007. "The Association of Childhood Socioeconomic Conditions with Healthy Longevity at the Oldest-Old Ages in China." *Demography*. Vol 44, No. 3: 497-518.
- 51) Zeng, Yi\*, 2007. "Options of Fertility Policy Transition in China." *Population and Development Review*. Vol. 33 No. 2, Pp. 215-246 (Heading article).
- 52) Zeng, Yi\*, Zhenglian Wang, Jiang Leiwen, and Danan Gu. 2008. "Future trend of family households and elderly living arrangement in China", *GENUS - An International Journal of Demography*, LXIV (No. 1-2): 9-36.
- 53) Zeng, Yi\* (2008). "La Presion demografica sobre el envejecimiento de la poblacion" (Demographic Pressure on Population Aging in Chin). *Vanguardia Dossier* (Spanish Quarterly), Issue 28: 53-59.
- 54) Xiao, Xinhua, Zhenxin Zhang\*, Harvey Jay Cohen, Heng Wang, Wenhui Li, Tong Wang, Tao Xu, Aimin Liu, Mingying Gai, Ying Shen, Ole Schmitz, Yi Zeng (2008). "Evidence of a Relationship between Infant Birth Weight and Later Diabetes Mellitus and Impaired Glucose Regulation in a Chinese Population". *Diabetes Care*, 2008 Mar;31(3):483-7.
- 55) Zhang, F.\* , M Lewis, G Yang, J Iriondo-Perez, Yi Zeng, J Liu (2008). "Apolipoprotein E polymorphism, life stress and self-reported health among older adults." *Journal of Epidemiology & Community Health*. April 1, 2008; 62(4): e3.
- 56) Dupre, Matthew E.\*; Gu, Danan; Warner, David F. and Zeng, Yi (2009). "Frailty and Type of Death among Older Adults in China." *British Medical Journal*. 338: b1175. [PMC2667569].
- 57) Gu, Danan\*; Dupre, Matthew E.; Sautter, Jessica; Zhu, Haiyan; Liu, Yuzhi; and Zeng, Yi (2009). "Frailty and Mortality among Chinese at Advanced Ages." *Journal of Gerontology: Social Sciences*, 64B(2), 279-289. [PMC2655172]
- 58) Gu, Danan; Zhang, Zhenmei; and Zeng, Yi (2009). "Accessibility to Healthcare Services Makes a Difference in Healthy Longevity among Older Chinese Adults." *Social Science and Medicine*, 68:21-219. [PMC19038485]
- 59) Gu,D\*, Dupre, M, Warner, F., Yi Zeng (2009). "Changing Health Status and Health Expectancies among Older Adults in China: Gender Differences from 1992 to 2002". *Social Science and Medicine*. 68: 2170-2179. [PMC 2727476]
- 60) Yang Li, Wen-Jing Wang, Huiqing Cao, Jiehua Lu, Chong Wu, Fang-Yuan Hu, Jian Guo, Ling Zhao, Fan Yang, Yi-Xin Zhang, Wei Li, Gu-Yan Zheng, Hanbin Cui, Xiaomin Chen, Zhiming Zhu, Hongbo He, Birong Dong, Xianming Mo, Yi Zeng\*, and Xiao-Li Tian\* (2009). "Genetic association of FOXO1A and FOXO3A with longevity trait in Han Chinese populations." *Human Molecular Genetics*, 18: 4897 – 4904. (Xiao-Li Tian and Yi Zeng are co-corresponding authors) [PMC2790334]
- 61) You, D\*, Gu, D, Yi Zeng (2010). "Familial Transmission of Human Longevity among the Oldest-old in China". *Journal of Applied Gerontology*. 2010, 29(3),308-332.
- 62) Zeng, Yi\*, Danan Gu, Jama Purser, Helen Hoenig, and Nicholas Christakis (2010). "Associations of Environmental Factors with Elderly Health and Mortality in China". *American Journal of Public Health*. 100 (2): 298-305. [PMC 2804639]
- 63) Gu, Danan\*, Jessica Sautter,Robin Pipkin, Yi Zeng (2010). "Sociodemographic and Health

- Correlates of Sleep Quality and Duration among Very Old Chinese. *SLEEP*, 33(5): 601-610. [PMC 2864875].
- 64) Shen, K. and Yi Zeng\* (2010). The association between resilience and survival among Chinese elderly. *Demographic Research* 23(5) 105-116. doi: 10.4054/DemRes.2010.23.5(July16, 2010) [ PMC 2990503].
  - 65) Zeng, Yi\*, Cheng, L., Chen, H., Cao, H., Hauser, E., Liu, Y., Xiao, Z., Tan, Q., Tian, X.\*, Vaupel, J.W. (2010). Effects of FOXO Genotypes on Longevity: A Bio-demographic Analysis. *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*, 65A (12): 1285-1299 (Yi Zeng and Xiao-Li Tian are co-corresponding authors) [PMC 2990269].
  - 66) Feng Q, Hoenig HM, Gu D, Yi Zeng, Purser JL\*. (2010). Effect of new disability subtype on 3-year mortality in Chinese older adults. *J Am Geriatr Soc*. 2010 Oct;58(10):1952-8. doi: 10.1111/j.1532-5415.2010.03013.x. [PMID: 20929468/PMCID: PMC3385853].
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#### 1.4. Mainly Editor-Reviewed Academic Articles

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- 12) Zeng, Yi\*, Li Wei, and Liang Zhiwu. 1992. "The Status, Regional Differences, and Trend of Chinese Family Structure." English version of *Chinese Journal of Population Science* 4: 263-84, published in the U.S. by Allerton Press, Inc.
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#### **1.5. Manuscripts written in English, not published but have been used in teachings of courses and training workshops**

- 1) Zeng, Yi. 1996. *Methods and Applications of Demographic Analysis*. (Note: Yi Zeng used this unpublished text book manuscript to teach a demographic method course in English for Chinese and foreign graduate students at Peking University from 1992 to 1996; the faculty members at Peking University have been using it since 1996).
- 2) Zeng, Yi and Wang Zhenglian. 1998. "ProFamy: a New Method and User-Friendly Computer Software for Family Household Projection." Different versions of this manuscript was presented, demonstrated, and used for training workshops on "Family Household Projections", at: (1) Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany, July 26 - August 2, 1998; (2) the Summer School jointly organized by the International Union for Scientific Studies of Population and MPIDR in Rostock, Germany, July, 2005; (3) Australian Demographic and Social Research Institute at Australian National University, Dec.6-7, 2007; (4) Demography Department and Population Studies Center of University of Campinas, Brazil, Sept. 26-30, 2016.

#### **1.6 Research reports written in English specially invited and submitted to the U.S. Census Bureau**

1. Zeng Yi and Zhenglian Wang. 2002. "U.S. Households Projection by Race Using Demographic Rates as Input --Primary Progress Report," Report No. 1 submitted to the Census Bureau.
2. Zeng Yi, Chingli Yang, Zhenglian Wang, and Philip Morgan. 2002. "Marital Status Transitions and Fertility in the United States -- Occurrence/Exposure Rates and Frequencies of Marital Status Transitions & Marital and Non-Marital Fertility by Race, Age, and Parity in Periods 1970-1996, and Cohorts born since 1920," Report No. 2 submitted to the Census Bureau.

3. Zeng Yi and Zhenglian Wang. 2002. "Projection of U.S. Households by Race," Report No. 3 submitted to the Census Bureau.

## **2. Publications written in Chinese**

### **2.1. Books written in Chinese**

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- 2) Zeng, Yi. 1993. *Methods and Application of Demographic Analysis*. Beijing: Peking University Press.
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- 5) Zeng, Yi, et al. 1995. *Divorce in the 1980s in China*. Beijing: Peking University Press.
- 6) Zha Ruichuan, Yi Zeng, and Guo Zhigang (eds.). 1996. *Analysis of the Data of the 1990 National Census in China (Two volumes)*. Beijing: Higher Education Press.
- 7) Zhang Chunyuan and Yi Zeng (eds.). 1996. *Market Demography*. Beijing: Peking University Press.
- 8) Zeng, Yi, Liu Yuzhi, Zhang Chunyuan, and Xiao Zhenyu (eds.). 2004. *Analysis on Determinants of Healthy Longevity*. Beijing: Peking University Press.
- 9) Zeng, Yi. 2004. *Analysis on Chinese Population*. Beijing: Peking University Press.
- 10) Zeng, Yi, Gu, Danan, Xiao Zhenyu, and Tao Liqun (eds.). 2005. *Graph Collections of Healthy Longevity in China*. Beijing: China Population Publishing House (in both Chinese and English).
- 11) Zeng, Yi, Li Ling, Gu Baochang, and Lin Yifu (eds.). 2006. *21st Century Population and Economic Development in China*. Beijing: Social Sciences Academic Press of China.
- 12) Zeng, Yi, Gu Baochang, and Guo Zhigang (eds.). 2010. *Population and Economic Development in China under the low fertility*. Beijing: Peking University Press.
- 13) Zeng, Yi (ed.) 2010. *Research on Elderly Population, Family, Health and Care Needs/Costs*. Beijing: Sciences Press.
- 14) Yi Zeng (ed.). 2010. "Demography" volume of the *Encyclopedia of Life Support Systems (EOLSS)* ([www.eolss.net](http://www.eolss.net)), coordinated by the UNESCO-EOLSS Committee. Published by Oxford: EOLSS Publishers Co. Ltd., Chinese version translated by Ma Li, Jiang Weiping, Liu Hongyan, Guo Weiming and academically checked by Y.C. You and Gu Baochang et al., Beijing, China Population Press, 2010.
- 15) Zeng, Yi, Zhang Zhen, Gu Danan and Zheng Zhenzhen. 2011. *Methods and Application of Demographic Analysis (Second Edition)*. Beijing: Peking University Press (This book received the award for the text books by Excellent Educators and renowned researchers from Beijing Municipal Education Commission).

- 16) Zeng, Yi, Baochang Gu, Jianzhang Liang, Zhigang Guo (eds.) 2013. *Fertility Policy Adjustment and Development in China*. Beijing: Social Science Academic Press (China).
- 17) Zeng, Yi, Jiehua Lu, Xiaoyan Lei and Xiaoming Shi (eds.) 2018. *Healthy Aging in China: Trends and Determinants*. Beijing: Science Press. -- Based on anonymous peer-review and experts committee's evaluations, this book was selected as part of the "National Philosophy and Social Sciences Outstanding Achievements Library", which is the highest books honor of Philosophy and Social Sciences in China.
- 18) Zeng, Yi (ed.) (2021). *Influencing Factors and Effective Interventions for Healthy Aging in China*. Science Press, Beijing, forthcoming. This book is selected as part of the China's National Key Publications Program, supported by Chinese National Publication Funds.
- 19) Zheng, Zhenzhen, Xiaomin Shi, Xiaoyan Lei and Yi Zeng (eds.) 2021. *Chinese Longitudinal Healthy Longevity Survey and the Database Development*, Science Press, Beijing, forthcoming. This book is selected as part of the China's National Key Publications Program, supported by Chinese National Publication Funds.
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## **2.2. Professional articles written in Chinese and published in peer-reviewed academic journals**

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- 2) Zeng, Yi\*. 1987. "Method of Constructing Multi-state Life Tables and Application to the Study of Nuptiality of Chinese Women." *Population Research* (Renkou Yanjiu). No. 3, 1987.
- 3) Zeng, Yi\*. 1987. "How the Drop in Birth Rates Is Expected to Affect Chinese Family Structure." *Academic Journal of Peking University* (Philosophy and Social Science) (Beijing Daxue Xuebao), No. 4, 1987.
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- 7) Zeng, Yi\*. 1988. "A Very Active Field of Demography - Family Demography." *Chinese Journal of Population Science* (Zhongguo Renkou Kexue), No. 6, 1988.
- 8) Zeng, Yi. 1989. "An Analysis on the Trends of Family Changes in Rural and Urban China." *Chinese Journal of Population Science* (Zhongguo Renkou Kexue), No. 6, 1989.
- 9) Zeng, Yi\* and Li Xiaoli. 1990. "Changes in Family Life Course and Family Structure in Rural Areas of Hunan and Shanxi Provinces." *Population and Economics* (Renkou yu Jingji). No. 2, 1990.
- 10) Zeng, Yi\*. 1990. "Socio-economic Strategies for Controlling Population Growth and

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  - 16) Zeng, Yi\*. 1991. “The effect of Gradually Increasing Women’s Mean Age at Birth on China’s Population Development” *Population and Economics* (Renkou yu Jingji). 1991, No. 2. pp. 3-10.
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- 18) Zeng, Yi (2006), Implementing as soon as possible the soft-landing of two-child and late child-bearing policy to solve the problem of high sex ratio. The national status report, Chinese Academy of sciences-Tsinghua University, 2006 (S1).
- 19) Zeng, Yi (2007), "Policy suggestions on implementing the soft-landing of two-child and late childbearing policy". The national status report, Chinese Academy of sciences-Tsinghua University, 2007 (3).
- 20) Zeng, Yi, Hu Angang (2007). "Big population" strategy: The urge of integrating family planning and population aging programs. The national status report, Chinese Academy of sciences-Tsinghua University, 2007 (5).
- 21) Zeng, Yi (2007), A daughter is better than a son to their parents' old age support in rural China. China Center for Economic Research (CCER) Bulletin, No. 25, 2007.
- 22) Zeng, Yi (2008), China's population ageing and population pressure on social economic development. CCER, High-level Forum in memory of the reform and open 30<sup>th</sup> anniversary. China Center for Economic Research (CCER) Bulletin, No. 49, 2008.



- 23) Zeng, Yi (2008), *Implementing the soft-landing of two-child and late childbearing policy is the most important to carry out people-oriented scientific development strategy. Internal policy advisory report, submitted Sept. 2008 to Li Keqiang, Vice Premier then and National Population and Family Planning Commission of China, and received written notice from Vice Premier Li.*
- 24) Zeng, Yi (2008), Comparative analysis of five different fertility policies options. Internal policy advisory report, submitted to National Population and Family Planning Commission of P.R. China, July, 2008.
- 25) Zeng, Yi (2009), The smooth transition of the fertility policy: lessons learned from the successful experience of the two-child plus interval program in the pilot areas. China Center for Economic Research (CCER) Bulletin, No. 34, 2009.
- 26) Zeng, Yi (2009), Progress and perspectives of interdisciplinary research on determinants of Healthy Longevity in China. China Center for Economic Research (CCER) Bulletin, No. 84, 2009.
- 27) Zeng, Yi (2010), *The Two-Child & Late Childbearing Policy--an Effective Way to Resolve the Serious Problem of High Sex Ratio at Birth in China. This policy report was selected as the Main Achievement Report No. 70 and submitted to all members of the Politburo of Communist Party of China, Premier, all Vice premiers, State Councilors, members of National people's congress and Chinese People's Political Consultative Conference, by Office of the National Social Science Foundation of China, August 2010.*
- 28) Zeng, Yi (2011), The current fertility policy and only allowing the "only-child couples" to have two children seriously and negatively affect the efforts for bringing down the sex ratio and governmental officers' corruption. This policy report was submitted to top leaders of the Party, State Council, and National Population and Family Planning Commission of P.R. China, Aug. 2011.
- 29) Zeng, Yi (2012), *Adjusting the current fertility policy as soon as possible to implement the soft-landing of universal two-child with adequate spacing. China Center for Economic Research (CCER) Bulletin, No.23, 2012. This policy report was submitted to Vice Premier Li Keqiang then and National Population and Family Planning Commission of P.R. China and received written notice from Vice Premier Li.*
- 30) Zeng, Yi (2012), China's new situation of ageing. *Internal References of Reforms: High Level Reports* (For Policymakers), <http://www.nsd.edu.cn/cn/article.asp?articleid=16444>。
- 31) Zeng, Yi (2012), Adjust the current fertility policy as soon as possible, and realize the goal of the soft-landing of two-child and late childbearing. China Center for Economic Research (CCER) Bulletin, No. 23, 2012.
- 32) Zeng, Yi (2013), More than twenty well-known scholars wrote a book on "Fertility policy adjustment and development in China". China Center for Economic Research (CCER) Bulletin, No.25, 2013.
- 33) Zeng, Yi (2013), Delaying fertility policy reform is not good for developing educational and institutional dividends, China Center for Economic Research (CCER) Bulletin, No.24, 2013.
- 34) Zeng, Yi (2013), *Suggestion for implementing the universal two-child with adequate spacing policy. This policy report was selected/included as the main report of China National Development and Reforms Commission sponsored "Internal Reference for Reforms • High-level Reports" (Feb. 2013, No. 4), for the officers of Chinese central, provincial and local governments to read as internal reference materials of socioeconomic and policy reforms.*
- 35) Zeng, Yi (2013), Universal two-child policy and late child-bearing promotion is better than only allowing the "only-child couples" to have a second birth. China Center for Economic Research (CCER) Bulletin, No. 28, 2013.

- 36) Zeng, Yi (2013), *Universal two-child policy is much better than only allowing the “only-child couples” to have a second birth*. China Center for Economic Research (CCER) Bulletin, No.28, 2013. – This policy report was submitted to President Xi Jinping by the end of Oct. 2013. On Dec. 8, 2013, the office of President Xi Jinping called Yi Zeng’s office at Peking University saying that President Xi Jinping has transferred Yi Zeng’s universal two-child policy report to National Commission for Health and Family Planning for the leaders to read/study.
- 37) Zeng, Yi (2013), *Providing supports to scientific and policy research for healthy aging in China: Chinese Longitudinal Healthy Longevity Survey*. China Center for Economic Research (CCER) Bulletin, No.59, 2013.
- 38) Zeng, Yi (2015), *Implementing the universal two-child policy (with soft-landing) to enhance balanced socioeconomic development*. This policy report was submitted to Premier Li Keqiang Jan. 28, 2015, and Premier Li Keqiang wrote a note on this policy report and transferred it to the Vice Premier and the Minister in charge of family planning for them to read/study. This policy report was also submitted to Social Development Division of National Commission of Reforms and Development of China, and received high attentions and positive feedbacks.
- 39) Zeng, Yi (2015) *Suggestion of implementing the universal two-child policy (with soft-landing) as soon as possible*. This policy report was included as the main report of China National Development and Reforms Commission sponsored “Internal Reference for Reforms • High-level Reports” (April 2015, No. 8), for the officers of Chinese central, provincial and local governments to read as internal reference materials of socioeconomic and policy reforms.
- 40) Zeng, Yi (2015), *Healthy aging: enhancing elderly services industry and sound tradition of family supports for older adults*. China Center for Economic Research (CCER) Bulletin, No. 6, 2015.
- 41) Zeng, Yi (2015), *Implementing the universal two-child policy in rural and urban areas as soon as possible is beneficial for both the nation and people*. China Center for Economic Research (CCER) Bulletin, No. 32, 2015.
- 42) Zeng, Yi (2015) *Try to enable older adults living healthier is the basic strategy to face the serious challenges of population aging*. China Center for Economic Research (CCER) Bulletin, No. 45, 2015.
- 43) Zeng, Yi (2016) *Efficiently deal with the challenges of effects of households changes on energy consumption and sustainable development*. China Center for Economic Research (CCER) Bulletin, No. 1, 2016.
- 44) Zeng, Yi (2016). *Enhance the administrative management works of health, family planning and population aging in pursuit of welfare of all families* China Center for Economic Research (CCER) Bulletin, No. 47, 2016.
- 45) Zeng, Yi (2017). *Encouraging Couples to Have Two Children Benefits both the Country and People*. This policy report was submitted to Premier Li Keqiang in March, 2017, and Premier Li Keqiang wrote a note on this policy report and transferred it to the Minister in charge of family planning for them to read/study.
- 46) Zeng, Yi, Lan Li and Zhenglian Wang (2017) . *Home-based energy consumption analyses/projections and policy recommendations for Hebei province*. Policy research report submitted to Hebei Provincial government in Nov. 2017, which is also part of the final Report of the Asian Development Bank Technical Consultation project on “Coordinated Development of Beijing, Tianjin and Hebei (2016-2017)” to which Yi Zeng is Co-Principal Investigator.
- 47) Zeng, Yi, Lan Li and Zhenglian Wang (2017) . *The Rapid population and households aging and policy recommendations in Hebei province in the framework of coordinated*

- development of Beijing, Tianjin and Hebei. Policy research report submitted to Hebei Provincial government in Nov. 2017, which is also part of the final Report of the Asian Development Bank Technical Consultation project on “Coordinated Development of Beijing, Tianjin and Hebei (2016-2017)” to which Yi Zeng is Co-Principal Investigator.
- 48) Zeng, Yi (2018). Eliminating all fertility limitation policies and Encouraging Couples to Have Two Children, to Strengthen the Country’s Development and People’s Welfare. This policy report was submitted to Premier Li Keqiang in June, 2018, and Premier Li Keqiang wrote a note on this policy report and transferred it to the Minister in charge of family planning for them to read/study; Published in *Internal Reference for Reform: High Level Reports*. National Commission of Development and Reform, September 11, 2018 and in *Social Sciences Weekly*, November 8, 2018.
- 49) Zeng, Yi (2019). Recommendations on the unrestricted policy of fertility and encouraging the second birth: field observations in rural & poor areas and empirical analyses. This policy report was submitted to Premier Li Keqiang and Vice-Premier Sun Chunlan on September 18, via. Peng Peiyun, the former Vice-Chairman of the Standing Committee of National People's Congress. Premier Li and Vice-Premier Sun instructed and forwarded it to the leaders of National Health and Population Commission for their reading and investigations.
- 50) Zeng, Yi (2020). Recommendations on further adjusting the population policy and promoting family patterns of respecting the aged, caring for the young and intergenerational assistance: this is also the medium- and long-term strategies of responses to the disasters such as the outbreak of COVID-19. This policy report was forwarded to President Xi Jinping and Premier Li Keqiang by Peng Peiyun, the former Vice-Chairman of the Standing Committee of the National People's Congress. Gu Shengzu, the Vice Chairperson of the National Committee of the Chinese People's Political Consultative Conference forwarded this report to the leading group of the 14th Five-Year Plan of the National Development and Reform Commission for reading and reference.
- 51) Zeng, Yi (2020). Recommendations on further adjusting the population policy and promoting family patterns of respecting the aged, caring for the young and intergenerational assistance: *China Study*, Special Issue No. 19 (Total No. 286), published on December 1, 2020; National Conditions Research Institute of Tsinghua University.

## 2.5. Working papers

- 1) Zeng, Yi (2004). Use the late childbearing as a lever and realize smooth transition to two-child policy. China Center for Economic Research (CCER) Working paper (No. C2004010).
- 2) Zeng, Yi and Zhenglian Wang (2004). Changes in family structure and elderly living arrangement in China: lessons learned from the 2010 census. China Center for Economic Research (CCER) Working Paper (No. C2004011)
- 3) Zeng, Yi (2005). A Soft-landing with the two-child-late-birth policy: necessity and feasibility. China Center for Economic Research (CCER) Working Paper (No. C2005010)
- 4) Zeng, Yi (2006). The time and scheme of China’s fertility policy’s adjustment. China Center for Economic Research (CCER) Working Paper (No. C2006016).
- 5) Zeng, Yi (2009). Implementing the soft-landing two-child and late childbearing policy to carry out people-oriented scientific development strategy. China Center for Economic Research (CCER) Working Paper (No. C2009001).
- 6) Zeng, Yi, Wang Zhenglian and Chen Huashuai (2011). Analysis on Trends of Future Home-based Care Needs and Costs for Elderly in China. China Center for Economic Research

- (CCER) Working Paper (No. C2011012).
- 7) Zeng, Yi (2012), Suggestions about implementing as soon as possible the new policy of universally allowing two-child with adequate late childbearing – new lessons learned from data analysis of the 2010 population census. China Center for Economic Research (CCER) Working Paper (No. C2012004).
  - 8) Zeng, Yi (2015), Implementing the universal two-child policy as soon as possible is a win-win policy for both the nation and people. China Center for Economic Research (CCER) Working Paper (No. C2015002).
  - 9) Zeng, Yi (2016), The impacts of trends of smaller households on energy consumption and sustainable development: Premier Li's question and Hu Huanrong households density line. China Center for Economic Research (CCER) Working Paper (No. C2016001).
  - 10) Zeng, Yi (2016), Enhance the administrative management works of health, family planning and population aging in pursuit of welfare of all families. China Center for Economic Research (CCER) Working Paper (No. C2016005).
  - 11) Gu, Danan, Qiushi Feng, Zhenglian Wang, and Yi Zeng (2015). Recommendation to consider the crucial impacts of changes in smaller household size and its structure on sustainable development goals. UNITED NATIONS SUSTAINABLE DEVELOPMENT Knowledge Platform, *Scientific briefs*, 2015 (online), <https://sustainabledevelopment.un.org/topics/science/crowdsourcedbriefs>.
  - 12) Zeng, Yi (2018). Eliminating all fertility limitation policies and Encouraging Couples to Have Two Children, to Strengthen the Country's Development and People's Welfare. China Center for Economic Research (CCER) Working Paper (No. C2018008).

## 2.6. Articles published in Newspapers and popular journals

- 1) Zeng, Yi, Market economy calls for applied demography. *China Population Daily*, 1993.10.18.
- 2) Zeng, Yi, Energetically develop social security system for elderly. *China Population Daily*, 1993.11.17.
- 3) Zeng, Yi, A daughter is better than a son to their parents' old age support. *Farmer's Daily*, 2007.08.01
- 4) Zeng, Yi, The smooth transition of China's fertility policy from a global perspective. *Economic Information Daily*, 2009.06.17.
- 5) Zeng, Yi, Chinese fertility policy urgently needs soft-landing transition. *Social Science Weekly*, 2009,01,15 and 2009.1.22 (continued).
- 6) Zeng, Yi, It is now the right time of smooth transition to a two-child policy—inspiration from the experiences of the two-child plus spacing policy pilot areas and coastal five provinces. *China Economic Times*, 2009.05.20.
- 7) Zeng, Yi, The two-child plus spacing policy won great success. *China Economic Herald*, 2009.05.23.
- 8) Zeng, Yi, Ageing population and elderly support system. *Wenhui Daily*, 2009.05.23.
- 9) Zeng, Yi, "Population strategy" doesn't equal to "one-child tactic". *The Economic Observer*, 2009.06.29.
- 10) Zeng, Yi, China should work hard on "soft-landing of universal two-child and late child bearing" policy. *China Economic Times*, 2010.03.31.
- 11) Zeng, Yi, Planned second birth should be allowed universally across rural and urban areas. *China Economic Times*, 2011.08.24.
- 12) Zeng, Yi, Trying Hard to Promote Universal Two-child Policy Soft-Landing. *Finance*, 2012.09.02.
- 13) Zeng, Yi, China's aging trend and the construction of social security system for the elderly. *Consumption Daily*, 2012.10.25.

- 14) Zeng, Yi, Universally allowing for bearing two-children and promoting adequate late childbearing. *Finance*, 2013.8.19.
- 15) Zeng, Yi, Universally allowing the second birth and make a prompt decision, *Yinda Finance*, 2013.9.19.
- 16) Zeng, Yi, Optimize fertility policy adjustments, *Finance*, 2013.10.7.
- 17) Zeng, Yi, Healthy aging is a national and vital issue. *Shanghai Securities News*, 2015.12.11.
- 18) Zeng, Yi, Eliminating all fertility limitation policies yo face serious challenges of population aging. *Social Science Weekly*, 2018,11,08.

## **RESEARCH GRANTS OF EXTERNAL SUPPORT**

### **R1. Research grants awarded by funding agencies in the U.S., Europe, Hong Kong, or Taiwan**

#### **R1.1. Active/Current Support**

NIA/NIH 3P01AG031719-07S1, Yi Zeng (Project Leader), James W. Vaupel (Program Project Director), 09/30/2009–04/30/2021

“Demography of Sex Differences in Health and Survival”, Yi Zeng is Project Leader of the Competitive Supplement Project of this NIA/NIH P01 program project.

NIA/NIH 2P01AG031719, James W. Vaupel (Program Project Director) 09/30/2009 – 04/30/2021

“Demography of Sex Differences in Health and Survival”; Yi Zeng is a key investigator of Project 2 of this NIA/NIH P01 program project.

#### **R1.2. Previous Support**

NIA/NIH 2R01AG023627, Yi Zeng (PI); Sept. 1, 2010 – Aug. 31, 2015.  
Demographic Analysis of Healthy Longevity in China.

NIH 3R01AG023627-06A2S1, Yi Zeng (PI); 09/01/2010 – 08/31/2015

Administrative supplement grant awarded by NIH National Human Genome Research Institute (NHGRI) and Office of Behavioral and Social Sciences Research (OBSSR). This supplement grant is associated with ongoing R01 “Demographic Analysis on Determinants of Healthy Longevity in China” (PI: Yi Zeng). This project is to collect additional data of standardized PhenX measures, which have been developed by NIH to strength interdisciplinary studies on gene-environment interactions.

OTH-12-0003 (BJG06), Yi Zeng (PI); 09/01/2012 – 12/31/2015

Hang Kong Guo’s Family Foundation

Study on Effects of Interactions between Social/Behavioral and Genetic Factors on Enhancing Healthy Aging.

Demographic Analysis of Healthy Longevity in China; R01 AG023627, Sept. 1, 2004 – Aug. 31, 2010. United States National Institute of Aging (NIA). Principal Investigator: Yi Zeng.

A competitive supplemental grant application associated with the R01 AG23627-01 “Demographic Analysis of Healthy Longevity in China.” 02/01/2009-08/31/2010; Principal

Investigators: Yi Zeng

Interdisciplinary Study on Healthy Aging. Duke University Provost Common Fund Award. 7/1/2006-6/30/2008, Principal Investigator: Yi Zeng.

Demographic Tool and Database for Households Forecasting. SBIR Phase II 2 R44 AG022734-02A2, U.S. National Institute of Aging, July 1, 2006-June 30, 2008. Principal Investigator: Zhenglian Wang. Research Director: Yi Zeng. Received a priority score of 182 (0.0 percentile) which is the best score among the SBIR applications in the 2006 spring competition.

A Comparative Study of Intergenerational Transfers, Family Relationships and Care for Elderly between Mainland China and Taiwan, sub-sample of adult children of the elderly interviewees, as part of our project on healthy longevity. Taiwan Academia Sinica, Dec. 1, 2004 – Dec. 1, 2007, Principal Investigators: Yi Zeng and Zhan Jie.

An administrative supplement grant from NIA (PI: Yi Zeng) and a special honorable grant from the Chinese Academy of Science for organizing a scientific direction conference (Fragrant Hill Science Conference grant -- PI: Yi Zeng). The conference (held in Beijing Dec. 19-21, 2006) supported by these two grants aimed to facilitate face-to-face intensive discussions on “Research Frontiers of Social, Behavior, Environmental and Genetic Determinants of Healthy Longevity” between demographic, biological and medical researchers from China, U.S.A., Europe, and other countries.

Longitudinal Study on Healthy Longevity in China, sub-sample of comparative group aged 65-79, as part of our project on healthy longevity. Oct. 1, 2004 – Sept. 30, 2006. Hong Kong Research Grants Council. Principal Investigators: Edward Tu and Yi Zeng.

IUGR (Intrauterine Growth Retardation) and Chronic Disease in Later Life in China, the U.S. National Institute on Aging. 12/1/02 – 3/31/06. Principal Investigator: Yi Zeng.

Seed grant for a project on preparing a Duke University - Peking University joint program on healthy aging studies, Trent Foundation. 1/1/05 – 6/30/06. Principal Investigator: Yi Zeng.

Determinants of Healthy Longevity in China, Oct. 1, 1997 - Dec. 31, 2004. United States National Institute of Aging (NIA). Principal Investigator: Yi Zeng. Program Project Director: James W. Vaupel.

NIA administrative supplementary award to expand (from covering ages 80+ to 65+) the funded study on “Determinants of Healthy Longevity in China.” Jan. 1, 2002 – Dec. 31, 2004. Principal Investigator: Yi Zeng.

United Nations Fund for Population Activities (UNFPA) award to strengthen the existing study on determinants of healthy longevity in China (from covering ages 80+ to 65+). Jan. 1, 2001 – Dec. 31, 2004. Principal Investigator: Yi Zeng.

Demographic Effects on Elderly Households and Caregiving Needs (in the United States), the United States National Institute on Aging, July 1, 2001 – June 31, 2003. Principal Investigator: Yi Zeng.

Projecting U.S. Households by Race Using the ProFamy New Method and Demographic Rates As Input, Sept. 10, 2001 – August 9, 2003, the United States Census Bureau, Principal Investigator: Yi Zeng.

Late 20<sup>th</sup> Century U.S. Fertility Trends and Differentials. July 1, 2001 – Sept. 30, 2005. U.S. National Institute on Child Health and Human Development. Principal Investigator: Philip Morgan. Co-Investigator: Yi Zeng.

Demographic Tool and Database for Households Forecasting, Oct. 1, 2003 – August 31, 2004. NIH SBIR Phase I grant (innovative research to further strengthen the family household projection method ProFamy, invented by Yi Zeng, and to develop it into user-friendly software with an associated database). Principal Investigator: Zhenglian Wang; Research Director: Yi Zeng.

U.S. households and income forecasting in the Northeast, Midwest, South, and West regions of the United States. August 1, 2003 – December 31, 2003. General Motors Phase I project. Principal Investigator: Yi Zeng.

U.S. households, income and automobile consumption forecasting in the Northeast, Midwest, South, and West regions of the United States. Jan. 1, 2004 – June 30, 2005. General Motors Phase II project. Principal Investigator: Yi Zeng.

Improved Demographic Components of Integrated Assessment Models for Energy Consumption (using Yi Zeng's ProFamy new method on household projection to study energy consumption). 10/01/01-04/30/05. The United States Department of Energy. Principal Investigator: Brian C. O'Neill at Brown University. Subcontract to Yi Zeng at Duke University, as a Co-Investigator.

Support for "Conference on Chinese Healthy Aging and Socioeconomic Development: International Perspectives." August 2004, Duke University Vice Provost Offices for International Affairs and Asian Pacific Studies Institute.

How May Demographic Changes Affect the Supply Of Family Care For the Elderly. Oct. 1, 2000 – Sept. 31, 2001. NIA center grant for a pilot study awarded by the Center for Demographic Studies of Duke University. Principal Investigator: Yi Zeng.

Implications of Changing Family Structure and Health Status on Caregiving Needs of the Elderly, Jan. 1, 2000 – Dec. 31, 2000. NIA center grant for a pilot study awarded by the Center for Demographic Studies of Duke University. Principal Investigator: Yi Zeng.

Impacts of the Expanded Iodine Dripping Project on Population Health and Socioeconomic Development in Xinjiang Autonomous Region, Sept. 1, 1998 – Aug. 31, 2001. Principal Investigator: Yi Zeng. This is a subproject of "Expanded Iodine Dripping in Xinjiang," directed by Professor G. Robert DeLong, M.D., Division of Pediatric Neurology, Duke University Medical Center.

Temporary Labor Migration: A Catalyst to Rural Development, August 1, 1997 – July 31, 2001. Competitive Earmarked Research Grant (CERG) awarded by the Research Grants Council (RGC) of Hong Kong. Principal Investigator: John Z. Ma; Co-Investigator: Yi Zeng. Note: CERG of RGC grants cover research costs only in Hong Kong, Taiwan and Mainland China, and travel costs to other countries.

Follow-up study of the centenarians interviewed in the 1990 census of China. 1997-1998. Max Planck Institute for Demographic Research, Germany. Principal Investigator: Yi Zeng.

Population growth and land use. Oct. 1995 - Oct. 1998. MacArthur Foundation through the U.S.

National Research Council. Principal Investigator: Yi Zeng.

Analysis on the Chinese centenarians census data. Jan. 1996 - Jan. 1998. Odense University, as a subcontract of the U.S. National Institute of Aging research grant. Principal Investigator: Yi Zeng.

Fertility transition in China: an international and systematic view. Sept. 1995 - Sept. 1997. Netherlands National Institute of Public Health and Environmental Protection. Principal Investigator: Yi Zeng.

Fertility and population policy studies in rural areas of China. July 1988 - July 1992. Rockefeller Foundation. Principal Investigator: Yi Zeng.

Institutional reform and fertility in rural areas of China. July 1990 - July 1993. Yale University, as a subcontract of the Rockefeller Foundation research grant. Principal Investigator: Yi Zeng.

Research agenda and literature review of population aging in China. March 16-June 15, 1994. U.S. National Institute of Aging. Principal Investigator: Yi Zeng.

Data analysis on the Chinese oldest-old mortality. July 1993 - Dec. 1995. Odense University, as a subcontract of the U.S. National Institute of Aging research grant. Principal Investigator: Yi Zeng.

Bibliographical research for understanding social-cultural factors affecting demographic behavior and population policy formation/implementation. July 1994 - July 1995. United Nations Educational Scientific and Cultural Organization (UNESCO). Principal Investigator: Yi Zeng.

Causes and Implications of Increasing Sex Ratio at Birth in China. United Nations Fund for Population Activities. Principal Investigator: Yi Zeng.

Multidimensional Modeling of family household. Jan. 1991 - Jan. 1993. Dutch Foundation for the Promotion of Cultural Exchanges between the Netherlands and China. Principal Investigator: Yi Zeng.

#### ***R1.4. Institutional development grants awarded by WHO and UNFPA***

In addition to the above-listed research grants awarded to Yi Zeng as an individual scholar, principal investigator, or co-investigator, he also applied for and received institutional development grants while he was director (1993-1998) or deputy director (1987-1992) of the Institute of Population Research at Peking University (IPRPU). For example, in response to proposals written by Yi Zeng as director or deputy director of IPRPU, the World Health Organization (WHO) awarded an exceptional 5-year (1992-1996) plus 2-year extension (1997-1998) Institutional Development Grant to IPRPU, Principal Investigator: Yi Zeng; United Nations Fund for Population Activities (UNFPA) awarded a special grant (1990-1992) to purchase and update the computer system for IPRPU. Principal Investigator: Yi Zeng.

## **R2. Research grants awarded by funding agencies in Mainland China**

### **R2.1. Current/Active Grants Support**

72061137004, Xiaoyan Lei (PI), Yi Zeng (Key Investigator) 05/01/2020-04/30/2023  
Families, households and health: Projections and implications.  
Jointly supported by National Natural Science Foundation China (NSFC), The Economic and Social Research Council (ESRC) and the Medical Research Council (MRC) of United Kingdom.

2018YFC2000404, Xiaoyan Lei (PI), Yi Zeng (Key Investigator) 01/01/2019 – 12/31/2022



National Key R&D Program of China.

Integrated research on genetic and environmental impacts on healthy longevity: large cohort study. Project 4 of Program project on “Systematic Research of Healthy Longevity in China: multiple and large cohorts studies”.

## **R2.2. Past Support**

71490732, Yi Zeng (PI)

01/01/2015 – 12/31/2019

Natural Science Foundation of China

Healthy Aging: Basic Scientific Research on Factors Affecting Elderly Population Health and Effective Interventions. The goal of this project is to better understand the effects of environmental and genetic factors and their GxE interactions on healthy aging and carefully investigate the scientific basis for more efficient health interventions.

71750002, Yi Zeng (PI)

09/01/2017 – 08/31/2019

Natural Science Foundation of China

Chinese Longitudinal Healthy Longevity Survey 8<sup>th</sup> wave.

71750002, Yi Zeng (PI)

09/01/2017 – 08/31/2019

China Population Management and Decision-Making Information System

Chinese Longitudinal Healthy Longevity Survey 8<sup>th</sup> wave.

71110107025, Yi Zeng (PI)

01/01/2012 – 12/31/2016

Natural Science Foundation of China

Research on Trends and Determinants of Healthy Aging in China. One of the major goals of this project is to partially support the part of the 6<sup>th</sup> wave in 2012 and the 7<sup>th</sup> wave in 2014-2015 of the Chinese Longitudinal Healthy Longevity Survey. This project also conducts data analysis on trends and determinants of healthy aging in China.

71233001, Yi Zeng (PI)

01/01/2013 – 12/31/2017

Natural Science Foundation of China

Research on How to Improve Safeguard Mechanism and Management Efficiency of Healthy Aging. The major goals of this project is to gain better understanding in effects of interactions between genetic and social/behavioral factors, based on data and DNA samples collected in the Chinese Longitudinal Healthy Longevity Survey.

2013CB530700, Xiaoli Tian (PI)

01/01/2013 – 12/31/2017

The National Basic Research Program of China (973 Program).

Biological Basis of Vessel Aging and Related Disease. Yi Zeng’s sub-project is to partially support research on Identifying the genes related to and may interact with environment to affect healthy aging, using the largest sample of centenarians, nonagenarians and the other age groups ever collected.

Yi Zeng’s Role: Senior Investigator

A sub-project of China’s Ministry of Education 211 Program for Key Universities Development awarded to Peking University, Yi Zeng (PI of this sub-project); 09/01/2011 – 12/31/2014

Interdisciplinary research framework on Healthy Aging.

China Ministry of Education, Yi Zeng (PI)

01/01/2010 – 12/31/2012

Population Economic analysis on elderly care costs and caregivers' burdens.  
Role: PI.

Application of ProFamy new method/software to forecast the trends and regional differentials in family households and population aging in East, Middle, and Western regions of China. Grant awarded by China National Commission of Reforms and Development through the programs managed by China State Population and Family Planning Commission and National Committee on Aging. July 1, 2009 – Dec. 31, 2011. Principal Investigator: Yi Zeng.

Study on Elderly Population, Family, Health, Care Needs and Costs. Jan. 1, 2006 – Dec. 31, 2009. China Natural Science Foundation National Key Project (70533010). This is perhaps so far the largest single Chinese grant for a demographic and health-related social science research project without doing a sample survey. Principal Investigator: Yi Zeng.

ProFamy: Family Households Forecasting and Information of Decision Making. Jan. 1, 2008- Dec. 31, 2008. Part of China's National Key project on "National Population Administration, Decision-Making and Information System (PADIS)," which is sponsored by National Commission of Development and Reform, and being implemented by China Population and Development Center. PADIS has decided employing ProFamy as one of the three demographic projection/analysis models. The other two are the classic cohort-component population projection and the micro-simulation.

Natural Science Foundation of China "Director's Special Award" to supplement additional data collection on elderly care needs and costs in the Chinese longitudinal survey on healthy longevity in China. Dec. 2004 – Dec, 2006. Principal Investigator: Yi Zeng.

Chinese family household forecasting and population policy analysis. June 16, 2004 -- May 15, 2006. China National Program on Strategic Research of Population and Development under State Council. Principal Investigator: Yi Zeng.

Health status and its determinants among the oldest-old in China. Special key project, China National Social Science Foundation. 5/31/2001 – 6/1/2005. Principal Investigator: Yi Zeng.

Peking University award to strengthen the existing study on determinants of healthy longevity in China (from covering ages 80+ to 65+). Jan. 1, 2002 – Dec. 31, 2004. Principal Investigator: Yi Zeng.

Necessity and Feasibility of a Smooth Transition of the Fertility Policy in China. Sept. 1996-Aug. 1999. awarded by the China National Social Science Foundation. Principal Investigator: Zhang Chunyuan, Co-Investigator: Yi Zeng.

"Four-two-one" family and social insurance for old age care. July 1993 - July 1996, awarded by China State Education Commission. Principal Investigator: Yi Zeng.

Population projections and policy analysis. Jan. 1991 - Jan. 1997, awarded by the China State Family Planning Commission. Principal Investigator: Yi Zeng.

Modeling, application, and software development of family household projection. Jan. 1992 - Jan. 1995, awarded by China National Natural Science Foundation. Principal Investigator: Yi Zeng.

Census data analysis on marriage/family. July 1991 - July 1993, awarded by the China State Statistical Bureau using financial support from the United Nations Fund for Population Activities.

Principal Investigator: Yi Zeng.

Multi-regional population projection and household studies. Sept. 1990 - Sept. 1995, awarded by the China State Education Commission using financial support from the United Nations Fund for Population Activities. Principal Investigator: Yi Zeng.

Divorce in the 1980s in China. July 1991 - July 1994, awarded by the China National Social Science Foundation. Principal Investigator: Yi Zeng.

Population and family dynamics in China. Sept. 1988 - Sept. 1993, special research grant for excellent young scientist, awarded by the China State Education Commission. Principal Investigator: Yi Zeng.

## **QUOTATIONS IN INTERNATIONALLY RECOGNIZED LITERATURE SOURCES**

According to the official search report by Duke University Library based on Google Scholar database, up to Sept. 25, 2019, Yi Zeng's articles and books have been cited 12,716 times by other scholars' publications, his h-index is 52 and i10-index is 166. Yi Zeng was included in the Elsevier 2018 honorary list of "Highly Cited Chinese Scholars".

## **INTERVIEWS AND QUOTATIONS BY PUBLIC MEDIA**

Yi Zeng's research achievements have been publicized through interviews and quotations in various major international and national public media, such as the New York Times, Washington Post, Voice of America, Tokyo Broadcasting System, North American based World Daily, Beijing based People's Daily, Guangming Daily, China Daily, China's Population Daily, China's Education Daily, China Central TV, Beijing TV, China Central Radio, Beijing Radio, Taiwan-based China Times, Taiwan TV, and Taiwan Radio.

## **FELLOWSHIPS**

1) Belgium governmental fellowship for Ph.D. study, Sept. 1982-Aug. 1986.

1) Frank W. Notestein Fellowship awarded by the Population Council in the U.S. for post-doctoral research at Princeton University (Sept. 1986-Aug. 1987).

## **POSITIONS IN PROFESSIONAL ORGANIZATIONS AND ADVISORY COMMITTEES**

### **Current**

● Member of International Advisory Board of Centre for Family and Population Research (CFPR), National University of Singapore.

● Senior Advisor of the Population Association of China, appointed by the General Assembly of the Association, June 2002 - Present.

### **Previous**

● Member of the Population Advisory Committee, State Family Planning Commission of China, 1990 – 2014.

● Re-elected as a member of the Council of International Union for Scientific Studies of Population, Jan. 2006-Oct. 2009.

- Member of the Council of International Union for Scientific Studies of Population, Jan. 2002-December 2005.
- Member of the Academic Committee on Aging, Longevity, Disability and Health, International Union for Scientific Studies of Population, 1998 – 2006.
- Member of the Panel on a Research Agenda and New Data for an Aging World, National Research Council and National Academy of Science, United States, 1998 – 2001.
- Member of the Advisory Panel on Exceptional Longevity, National Institute on Aging, United States, Feb. 2000 – 2001.
- Chairman of the Advisory Committee, China National Research Center on Aging, 1997 – 2004.
- Member of the International Advisory Committee of Ministry of Health, China, 1997 – 2003.
- Member of the Census Advisory Group under the Census Office of the State Council, China, 1988-1998.
- Member of the Population Association of America's committee on China study and exchange, 1992-1997.
- Member of the Steering Committees of Social Science Research on Reproductive Health, Human Reproduction Program, World Health Organization, 1989-1995.
- Member of the International Organizing Committee of International Union for Scientific Studies of Population (IUSSP), 1989-1993. One of the academic organizers of the IUSSP 22nd General Conference in Montreal, Canada, 1993.
- Member of the Steering Committee & International Organizing Committee of the International Union for Scientific Studies of Population (IUSSP), 1993-1997. One of the chief academic organizers of the IUSSP 23rd General Conference in Beijing, China, 1997. (Note: In the IUSSP official announcement, written in English and French and sent to all IUSSP members worldwide, it was stated that responding to the invitation presented by Dr. Yi Zeng, the IUSSP Council decided to hold the 23rd General Conference in Beijing in 1997).
- Member of Peking University Board, 1990-1996.
- Member of the Nominating Committee, International Union for Scientific Studies of Population (IUSSP), 1993-1997.
- Member of the evaluation/selection committee for the Carlsberg Professorship at the National Center for Demographic Research, Denmark.
- Member of the Advisory Committee of UNFPA programs in China, 1988-1996.
- Vice President of the Population Association of China, 1993 – June 2002.

**SERVED AS CHIEF ACADEMIC ORGANIZER FOR NATIONAL CONFERENCES AND WORKSHOPS** (since 1998; records for such services before 1998 have not been kept)

- 1) “Workshop on the data analysis of the 1998 baseline survey and dialogues with policy makers,” Dec. 31, 1999, in Beijing.
- 2) “National conference on determinants of healthy longevity of the oldest-old in China,” March 2-3, 2001 in Beijing. About 105 scholars in the fields of social and biomedical sciences from different parts of the country, including Hong Kong, participated in the workshop.

- 3) "National Conference on Healthy Aging and Socioeconomic Development," May 12-13, 2004, Beijing.
- 4) "Experts meeting on elderly health, family and care needs and costs", sponsored by China Natural Science Foundation, June 18, 2004.
- 5) Forum on "Chinese Population and Economic Development", December 24, 2005. Beijing.
- 6) Fragrance Hill Scientific Conference on "Research Frontiers of Genetic, Social, and Environmental Determinants of Healthy Longevity". Dec. 19-21, 2006, Beijing.
- 7) Meeting on "Progress and Perspective on Interdisciplinary Research on Determinants of Healthy Longevity," Oct. 22, 2007, Beijing.
- 8) Forum on "Population and Economic Development under Low Fertility", December 20, 2008. Beijing.
- 9) Fragrance Hill Scientific Conference on "Interdisciplinary Research on Healthy Aging and Old Age Security", June 29-July 1, 2011, Beijing.
- 10) National Conference on "China's Population and Economic Development in the New Era", June 16, 2012.
- 11) Nationwide experts meeting on "Genes-Environment Interactions and Efficient Interventions for Healthy Aging", participated by 42 outstanding scholars and governmental high-rank officers from 18 universities and institutions all over China, July 12, 2015, Peking University.
- 12) Nationwide experts meeting of "Research on Scientific Basis and Efficient Interventions for Healthy Aging", participated by 83 outstanding scholars and governmental high-rank officers, respectively, from 26 universities and institutions all over China and co-organized by Bureau of Science and Technology Development of China Academy of Sciences and Center for Healthy Aging and Development Studies. Peking University, December 17, 2015, China Academy of Science.

**SERVED AS CHIEF ACADEMIC ORGANIZER FOR INTERNATIONAL CONFERENCES AND WORKSHOPS** (since 1998; records for such services before 1998 have not been kept)

- 1) "International workshop on family household modeling and applications". July 26-Aug. 2, 1998, Max Planck Institute for Demographic Research (MPIDR), Rostock, Germany.
- 2) A workshop presenting the major results of our 1998/2000 surveys and exchanges with leading researchers of HRS/AHEAD, NLTCS, LSADT and other related international studies, August 2001 at MPIDR in Germany. Thirty scholars (half Chinese and half Americans/Europeans) participated in the workshop.
- 3) "International Symposium (Oct. 22-25, 2001) and training workshop (Oct. 26-27, 2001) on Healthy Aging Studies in China", co-sponsored by Center for Healthy Aging and Family Studies of Peking University and the International Union for Scientific Studies of

Population, Beijing; 150 scholars from 11 countries participated in the symposium and 35 scholars participated in the training workshop.

- 4) "Chinese Population and Socioeconomic Studies: Utilizing the 2000/2001 round Census Data," June 19-21, 2002, Hong Kong, Jointly sponsored by Chinese Population and Socioeconomic Studies Center at Duke University (CPSES), Survey Center of University of Science and Technology of Hong Kong, Mainland China Population Association; Taiwan Population Association; Social Statistics Branch of China Statistics Association, and Center for Healthy Aging and Family Studies of Peking University.
- 5) "Demographic Window and Healthy Aging: Socioeconomic Challenges and Opportunities," May 10-11, 2004, Beijing, co-sponsored by IUSSP, Asia MetaCenter and Peking University.
- 6) "International workshop on Determinants of Healthy Longevity in China," at MPIDR, Rostock, August 2-4, 2004.
- 7) Conference on Chinese Healthy Aging and Socioeconomics: International Perspectives, August 20-21, 2004, Duke University.
- 8) Symposium on Chinese Longitudinal Healthy Longevity Studies at the 57<sup>th</sup> annual scientific meeting of Gerontology Society of America, Washington DC, November 20, 2004.
- 9) International Conference on Healthy Longevity, Sept. 21-23, 2005, Pengshang, Sichuan, China.
- 10) The PKU-Duke Research Workshop on "Interdisciplinary Study on Healthy Aging", May 18-19, 2006, Peking University campus.
- 11) The Duke-PKU Research Workshop on "Interdisciplinary Study on Healthy Aging", April 30-May 3, 2007, Duke University campus.
- 12) Informal meeting of "International Consortium on Healthy Longevity Studies," October 22, 2007, in the occasion of the 8<sup>th</sup> Asian/Oceania regional congress of gerontology and geriatrics, October 22-25, 2007, Beijing, China.
- 13) Session on "Aging and Healthy Longevity", 8<sup>th</sup> Asian/Oceania regional congress of gerontology and geriatrics, October 22-25, 2007, Beijing, China.
- 14) International conference on "Frontier and Perspectives of Demographic Research", co-sponsored by China Population and Development Research Center, Center for Healthy Aging and Development Studies of Peking University, Chinese Population Association and UNESCO-EOLSS, May 19-20, 2010, Beijing.
- 15) International Conference on "Advances in Methodology and Applications: Biodemography and Multistate Event History Analysis on Healthy Aging", Oct. 15-18, 2012, Beijing and HangZhou, China.
- 16) International Conference on "Interdisciplinary Research on Long-term Care and Healthy Aging", April 28-29, 2014, Duke University. In total 66 formally registered participants,

including 22 from China, 5 from Canada, Netherlands, Singapore and Japan, 8 from U.S. Institutions located in the other states than NC, and 31 Duke faculty, research associates and post-doc.

- 17) International Conference on “Interdisciplinary Research on Long-term Care and Healthy Aging”, May 22-23, 2015, Zhejiang University. In total 95 formally registered participants, including 29 scholars from abroad.

## **SERVED AS CHIEF ACADEMIC ORGANIZER FOR TRAINING WORKSHOPS**

(1) The Duke CPSES Training Workshop on Healthy Aging and Socioeconomic Development for 19 Chinese central and provincial governmental high-rank officers, November 6-25, 2004, Duke University; Pre-Training Workshop on Healthy Aging and Socioeconomic Development for Chinese governmental officers, November 4-5, 2004, China Center for Economic Research, Peking University, which is for Chinese participants’ academic preparation for the international training workshop at Duke University.

(2) The Duke CPSES Training Workshop on Population and Harmonious Society for 21 Chinese central and provincial governmental high-rank officers, August 20-Sept. 9, 2005, Duke University; Pre-Training Workshop on Population and Harmonious Society for these Chinese governmental officers, August 18-19, 2005, China Center for Economic Research, Peking University, which is for Chinese participants’ academic preparation for the international training workshop at Duke University.

(3) The Duke CPSES “Training Workshop on Population and Harmonious Society” for 21 Chinese central and provincial governmental high-rank officers, August 12-Sept. 3, 2006, Duke University; Pre-Training Workshop on Population and Harmonious Society for these Chinese governmental officers, August 10-11, 2006, China Center for Economic Research, Peking University, which is for Chinese participants’ academic preparation for the international training workshop at Duke University.

(4) Pre-Training Workshop on Population and Harmonious Society for those Chinese governmental high-rank officers, Sept. 3-4, 2007, China Center for Economic Research, Peking University, which is for Chinese participants’ academic preparation for the international training workshop in the U.S..

(5) Advances in Methodology and Applications: Bio-demography and Multistate Event History Analysis on Healthy Aging October 15-18, 2012, Beijing and Hangzhou in China

## **SERVICES**

Together with Professor Nan Lin, I played a major role in establishing the Chinese Population and Socioeconomic Studies Center (CPSES) at Duke University. I have actively served as Executive Associate Director of CPSES from its establishment (July 6, 2000) to June 30, 2002, and as Director of CPSES from July 1, 2002 to the present. I have coordinated a campus-wide CPSES seminar series, training workshops and the CPSES international conferences, fund raising, and database and Website development.

Served as a member of Duke University Asian Pacific Studies Institute (APSI) Executive Committee, 9/1/2003-8/31/2005

Served as a member of Duke University Asian Pacific Studies Institute (APSI) Academic Travels Gants Committee, 9/1/2005-Present.

Served as a member Duke University Population Research Institute Board.9/1/2006-2010

Service to the community (Papers refereed, conferences organized, NSF reviews and panels, etc.)

## **EDITORIAL ACTIVITIES**

The Honorary Theme Editor of the “*Demography*” volume of the UNESCO-coordinated *Encyclopedia of Life Support Systems* (EOLSS) ([www.eolss.net](http://www.eolss.net)), which is so far the largest and the most widely cited reference source in the world, by the UNESCO-EOLSS Joint Committee; August 2006 – July 2009.

Deputy Editor, *Demography*, Journal of Population Association of America, July 1, 2007—June 30, 2010.

Member of the Editorial Board of *Demographic Research*, Germany. 1998-present.

Member of the Editorial Board of *GENUS – An International Journal of Demography*, 2000-Present.

Member of the Editorial Board of *Chinese Journal of Population Science*. 1995-present.

Founder, Editor, Publisher, and Chairman of the Editorial Board of *Market and Demographic Analysis*, China. 1993-1998.

## **REVIEW WORK FOR ACADEMIC JOURNALS**

Conducted review work for the following journals published in the U.S. and Europe:

*Population and Development Review*

*Demography*

*Journals of Gerontology (Social Science)*

*Journals of Gerontology (Biological Science)*

*The New England Journal of Medicine*

*Social Biology*

*Population Studies*

*Journal of Population and Economics*

*European Journal of Population*

*GENUS – An International Journal of Demography*

*Demographic Research*

*Mathematical Population Studies*

*Science*



*Journal of the American Statistical Association*

*Journal of Marriage and Family*

*Research on Aging*

*Population Research and Policy Review*

*Journal of Comparative Family Studies*

*European Journal of Human Genetics*

### **INVITED LECTURES (primarily since 1999)**

- 1) Before 1999, I was invited to give professional lectures at the following institutions: Harvard University, Princeton University, University of Michigan, Yale University, University of California at Berkeley, University of North Carolina, University of Minnesota, Brown University, University of Colorado, Population Council, United Nations, East-West Center, McMaster University, University of British Columbia, Cambridge University, Nihon University, Netherlands Interdisciplinary Demographic Institute, Odense University, German Federal Institute for Population Research, U.S.A.- German Academies of Sciences Summer Institute.

Examples of specially invited conference speeches before 1999 are listed in 2) to 5). The invited conference speeches in and after 1999 are listed in item numbers 6) and onwards.

- 2) Was the first Mainland Chinese social scientist invited by a Taiwanese academic institution (Academy Sinica) and officially approved by the Taiwan government to visit and to deliver an academic speech in Taiwan in 1992.
- 3) Delivered a panel speech on population and sustainable development at the annual conference of the American Association for the Advancement of Science (AAAS) Feb. 8 - 12, 1996, Baltimore. One of five of AAAS's specially invited scientists in the fields of population, environment and ecological studies.
- 4) Delivered a panel speech on an oldest old aging study at the U.S.A.-Germany Academy Sciences Summer Institute, July, 1997, University of California, Davis.
- 5) Invited by the United Nations Educational, Scientific and Cultural Organization (UNESCO) to deliver a speech as a distinguished leading scientist at the UNESCO Conference "21<sup>st</sup> Century Dialogues," Sept. 16-19, 1998, UNESCO Headquarters, Paris. I was one of the two invited distinguished, leading demographers to deliver a speech at this UNESCO conference.
- 6) Invited by the Taiwan Population Association to deliver a keynote speech at the annual meeting of the Taiwan Population Association, Taipei, March 1999.
- 7) "Extremely Rapid Aging and the Living Arrangement of Elderly Persons: the Case of China." Invited panel speech at the Technical Meeting of the Population Division of the United Nations, New York, Feb. 8-11, 2000.
- 8) "Demography of Aging in China and a New Method for Family Household Projection." Invited lecture at the Center for Population Studies, University of Michigan, Ann Arbor, March 20, 2000.

- 9) "Marriage and Divorce in China." Invited lecture at the Center for China Studies, University of Michigan, Ann Arbor, March 22, 2000.
- 10) "Population Aging and Oldest Old in China." Invited keynote speech at the opening ceremony of the 16<sup>th</sup> Biennial Meetings of the International Society for the Study of Behavioral Development, Beijing, July 11, 2000.
- 11) "Population Aging and Family Dynamics of Elderly in China." Invited lecture at the Department of Sociology and Population Studies and Training Center, Brown University, Nov. 27, 2000.
- 12) "ProFamy: A New Method and Demographic Tool for Family Household Projection." Invited lecture at the U.S. Census Bureau, Nov. 29, 2000, Washington D.C.
- 13) "Challenges of Population Aging in China." Invited lecture at Stanford University, Feb. 21, 2001.
- 14) "Determinants of Healthy Longevity in China." Invited lecture at the University of California, Berkeley, Feb. 22, 2001.
- 15) "The Oldest Old and Policy Considerations in China." Invited lecture at the Center for Health and Social Policy, Medical School, Odense University, Denmark, May 8, 2001.
- 16) "Extremely Rapid Population Aging and The Implications on Medical Expenses In China." Invited speech delivered at the 5<sup>th</sup> International Conference on Preventive Medicine on Cardiac Diseases," May 28, 2001, Osaka, Japan.
- 17) "Rural Old Age Insurance and Sustainable Development in China." Invited speech delivered at the Forum on "Sustainable Development with Dynamic Economy," organized by World Bank and the German Ministry for Economic Cooperation and Development. Berlin, July 10-12, 2001.
- 18) "Healthy Aging Studies in China." Invited lecture at Center on Aging and Department of Sociology, University of Victoria, Canada, April 2, 2002.
- 19) Household & Consumption Forecasting Using ProFamy New Method, Invited lecture at the headquarters of General Motors, Detroit, June 2, 2003.
- 20) ProFamy: New Method and Software for Household Forecasting. Invited lecture at STATA Institute, College Station, Nov. 10, 2003.
- 21) Determinants of Healthy Longevity in China. Invited Plenary lecture at 7<sup>th</sup> Asia/Oceania Regional Congress of Gerontology Tokyo, November 28, 2003, Studies on Healthy Longevity in China. Invited lecture at Japan National Institute on Population and Social Security, Dec. 1, 2003.
- 23) Rapid Aging, Healthy Longevity and Rural-Urban Insurance in China. Invited keynote speech at the 1<sup>st</sup> HiA International Symposium on Frontiers of Aging Research -- Challenge to Global Aging, Tokyo, December 2, 2003.
- 24) U.S. Family Households and Elderly Living Arrangements Forecasting Using ProFamy New Methods and Conventional Demographic Data. Census Bureau invited lecture at the

Federal-States demographers cooperatives annual workshop (involving Census Bureau personnel and state-demographers from all states) March 31, 2004, Boston.

- 25) Demographic Research and Industry of Elderly Products and Services. Invited keynote speech at the National Conference on Industry of Elderly Products and Services, organized by the China National Research Center on Aging, May 28, 2004, Beijing.
- 26) Fixed Attribute Dynamics and Multivariate Statistical Analysis on the Association between Early Life Experiences and Healthy Longevity at Old Ages. Lecture at IUSSP and the Max Planck Institute for Demographic Research (MPIDR) Summer School on Frontiers of Demographic Research on Mortality and Longevity, 25 July - 2 August 2005, MPIDR, Rostock, Germany.
- 27) A New Method for Correcting Underestimation of Disabled Life Expectancy and Application to Chinese Oldest-Old. Lecture at IUSSP and the Max Planck Institute for Demographic Research Summer School on Frontiers of Demographic Research on Mortality and Longevity, 25 July - 2 August 2005, MPIDR, Rostock, Germany.
- 28) ProFamy: New Method, Software and Applications for Projections of Households and Elderly Living Arrangement. Lecture at IUSSP and the Max Planck Institute for Demographic Research Summer School on Frontiers of Demographic Research on Mortality and Longevity, 25 July - 2 August 2005, MPIDR, Rostock, Germany.
- 29) "Family Household and Housing Forecasting at State and Small Area Levels." Invited lecture at the U.S. Census Bureau, Nov. 7, 2005, Washington D.C.
- 30) Invited by the "Planning and Development Collaborative International (PADCO)" to speak as a panelist at the FADCO Forum on Global Development on Nov. 8, 2005 at Cosmos Club in Washington DC, on the 40th anniversary of PADCO.
- 31) "Chinese Longitudinal Healthy Longevity Survey Study and Selected Findings", invited lecture at Minnesota Population Center, October 17, 2005, Minneapolis.
- 32) "International Healthy Aging Study and Forecasting Elderly Family and Disability Status." Invited lecture at School of Public Health, University of Minnesota, Jan. 19, 2006, Minneapolis.
- 33) "The Chinese Longitudinal Healthy Longevity Survey Research and its Findings." Center for Study of Aging, Bio-demography and Health Services at Economics Department of University of Chicago, March 17, 2006, Chicago.
- 34) "Population Aging and Forecasting of Deficits of Retirement Funds in China", Economics Department, National University of Singapore, May 3, 2006, Singapore.
- 35) Keynote speech on "Population Aging in China: Challenges and Opportunities" at the Nan-Sa Forum co-sponsored by Hong Kong University of Science and Technology and Guang Zhou Municipality Government.
- 36) Specially invited keynote lectures at the Australian National Workshop especially designed for training the ProFamy new cohort-components methodology and applications of households forecasting, developed by Yi Zeng and his associates including Ken Land, Zhenglian Wang, James W. Vaupel, etc. This Australian National Workshop was organized by Australian Demographic and Social Research Institute at Australian National University,

Dec.6-7, 2007.

- 37) Specially invited keynote lecture on “Households forecasting at state and sub-state levels” by Federal-State Cooperative Program for Population Projections (FSCPP), April 16, 2008, New Orleans, Louisiana.
- 38) Invited by the International Organization REVES (Réseau Espérance de Vie en Santé) to deliver the *George Myers Memorial Lecture* at the 20<sup>th</sup> conference of REVES, May 7-9, 2008 held in Manila, Philippines. Yi Zeng’s lecture was on “Can Humans Achieve the Goal of Longer Life and Healthy Aging? -- Lessons Learned from Chinese Longitudinal Healthy Longevity Study.
- 39) Invited by Professor Emily Grundy, Cambridge University, Professor Mike Murphy and Professor Ludi Simpson, President of British Society for Population Studies (BSOS) to give a keynote lecture at the BPS seminar on households projections July 16, 2012 in London.
- 40) Specially invited by the Population Program of International Institute on Applied Systems Analysis to deliver keynote lecture on “Households and living arrangement projections: the extended cohort-component method and applications to the U.S. and China,” August 6, 2013, Laxenburg.
- 41) Specially invited and paid business class air ticket and hotel costs to present “Research to understand the effects of genes-environment interactions on healthy longevity is one of the most responses as world longevity increases -- Lessons learned from Chinese Longitudinal Healthy Longevity Study, the world largest study on the oldest-old” at the “*Future Trends Forum: How Will Longevity Reshape the World?*” Nov. 30-Dec. 1, 2017, Madrid, Spain, organized by Bankinter Innovation Foundation of Spain.

## TEACHING

### Courses taught:

- 1) “Society, Economics and Market in China.” Taught in English every year at Duke University since 2004.
- 2) “Population, Families and Market Economy”, taught at Peking University almost every year since 2004.
- 3) Populations, Families, and Socio-economics in Mainland China, Taiwan, and Hong Kong. Taught in English at Duke University, 2002.
- 4) Population and Family in China. Taught in English at Duke University, 2000.
- 5) Population, Family and Socio-Economic Reforms in China. Taught in English at Duke University, 1999.
- 6) Population, Family and Socio-Economic Reforms in China. Taught in English every year at the University of Minnesota, 1992-1998 (except 1997).
- 7) Methods and Applications of Demographic Analysis. Taught in English at Peking University, 1992-1996; taught in Chinese at Peking University, 1988-1991.
- 8) Advanced Techniques of Demographic Analysis. Taught in English at Peking University, 1997 - 1998.

- 9) How to Write a Research Grant Proposal. Taught in Chinese at Peking University, 1995.
- 10) How to Conduct Professional Translations between English and Chinese. Taught in Chinese at Peking University, 1996.
- 11) Family Demography (short course). Taught in Chinese at Peking University, 1987.
- 12) Family Status Life Table Analysis (short course). Taught in English at the University of Colorado, 1987.
- 13) Methods of Demographic Analysis Using Survey Data. Taught in Chinese at a two-month training workshop for Chinese scholars organized by the International Statistical Institute in The Hague, Netherlands.
- 14) Participated in developing and teaching the undergraduate course "Introduction to Demography" taught in Chinese at Peking University.

#### **Development of an international MA degree program taught in English at Peking University**

While I was director of the Institute of Population Research at Peking University, I took the initiative to establish an international M.A. degree program in population science, with all courses taught in English, enrolling both Chinese and foreign students. This English demographic M.A. degree program was officially launched in 1992 and continues to operate. I applied for and received major financial support from the World Health Organization. I directed and participated in the development of the curriculum, recruited faculty who are able to teach in English, and attracted the interest of graduate students from outside of China including the U.S., Germany and other countries to study at this unique M.A. degree program in China.