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| CONTACT | Office 4200-CU05, Level 4, Al Khawarizmi Building (1) Computer, Electrical and Mathematical Sciences and Engineering Division (CEMSE) 4700 King Abdullah University of Science and Technology (KAUST) Thuwal 23955–6900, Saudi Arabia E-mail: fengqing.chao@kaust.edu.sa Website: https://www.fengqingchao.com |
| EDUCATION | 2017 PhD in Biostatistics. Saw Swee Hock School of Public Health, National University of Singapore (NUS) <ul style="list-style-type: none">• Dissertation: “Bayesian Methods for Estimating Global Health Indicators”• Advisors: A/P Leontine Alkema (UMass), A/P Alex Cook (NUS) 2012 BSc (Hons) majoring in Statistics. National University of Singapore |
| RESEARCH INTERESTS | Statistical demography; Global health; Bayesian modeling; Time series analysis |
| PROFESSIONAL ACTIVITIES | Associate Editor for: Foundation of Data Science (AIMS). Reviewed for: The Lancet Global Health. Annals of Applied Statistics. Demographic Research. BMJ Global Health. Journal of Development Effectiveness. Global Health Research and Policy. BMC Public Health. |
| RESEARCH GRANT | Sep 2019–Sep 2021: Long Term Agreement for Services (LTAS) for the UNICEF. PI: Chao, F. LTAS-42107038. (Awarded to KAUST with faculty mentor Ombao H.) |
| PEER-REVIEWED PUBLICATIONS | <ol style="list-style-type: none">5. Chao, F., & Yadav, A. K. (2019). Levels and trends in the sex ratio at birth and missing female births for 29 states and union territories in India 1990–2016: A Bayesian modeling study. <i>Foundations of Data Science</i>, 1(2), 177-196.4. Chao, F., Gerland, P., Cook, A. R., & Alkema, L. (2019). Systematic assessment of the sex ratio at birth for all countries and estimation of national imbalances and regional reference levels. <i>Proceedings of the National Academy of Sciences</i>, 166(19), 9303-9311.3. Chao, F., You, D., Pedersen, J., Hug, L., & Alkema, L. (2018). National and regional under-5 mortality rate by economic status for low-income and middle-income countries: a systematic assessment. <i>The Lancet Global Health</i>, 6(5), e535-e547.2. Alkema, L., Chao, F., You, D., Pedersen, J., & Sawyer, C. C. (2014). National, regional, and global sex ratios of infant, child, and under-5 mortality and identification of countries with outlying ratios: a systematic assessment. <i>The Lancet Global Health</i>, 2(9), e521-e530.1. Chao, F., & Alkema, L. (2014). How informative are vital registration data for estimating maternal mortality? A Bayesian analysis of WHO adjustment data and parameters. <i>Statistics and Public Policy</i>, 1(1), 6-18. |

MANUSCRIPTS IN PREPARATION

2. **Chao, F.**, et al., “A Systematic Assessment of National under-5 Mortality Rate by Place of Residence for 108 Countries”.
1. **Chao, F.**, et al., “Scenario-based Bayesian probabilistic projections of the sex ratio at birth and missing female births for all countries and country-level imbalances”.

COLLABORATORS

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| Alkema, Leontine | Department of Biostatistics and Epidemiology, University of Massachusetts, Amherst, USA |
| Cook, Alex | Saw Swee Hock School of Public Health, National University of Singapore, SG |
| Gerland, Patrick | United Nations (UN) Population Division, Department of Economic and Social Affairs, USA |
| Hug, Lucia | Division of Data, Research, and Policy, United Nations Children’s Fund (UNICEF), New York, USA |
| KC, Samir | Asian Demographic Research Institute, Shanghai University, Shanghai, China |
| Pedersen, Jon | FAFO Institute of Applied International Studies, NOR |
| Sawyer, Cheryl | UN Population Division, Department of Economic and Social Affairs, USA |
| You, Danzhen | Division of Data, Research, and Policy, UNICEF, New York, USA |

HONORS AND AWARDS

NUS Dean’s List: AY 2010/2011 Semester 2.
 NUS Undergraduate Scholarship (full scholarship): 2008–2012.
 XXVII IUSSP International Population Conference Best Poster Award: Aug 2013.

WORK EXPERIENCE

Jul 2019– Postdoctoral Fellow; Biostatistics Research Group, Computer, Electrical and Mathematical Sciences and Engineering Division, King Abdullah University of Science and Technology

Jan 2019–Jul 2019 Research Fellow; Institute of Policy Studies, Lee Kuan Yew School of Public Policy, National University of Singapore

Dec 2017–Dec 2018 Postdoctoral Fellow; Institute of Policy Studies, Lee Kuan Yew School of Public Policy, National University of Singapore

Aug 2017–Nov 2017 Research Assistant; Institute of Policy Studies, Lee Kuan Yew School of Public Policy, National University of Singapore

Aug 2015–Jul 2017 Research Assistant; Saw Swee Hock School of Public Health, National University of Singapore

Apr 2016 Visiting Scholar; Department of Biostatistics and Epidemiology, University of Massachusetts, Amherst, USA

May 2015–Jul 2015 Consultant; Data and Analytics Section, Division of Data, Research and Policy, UNICEF headquarters, New York, USA

May 2013–Aug 2015 Research Assistant; Department of Statistics & Applied Probability, National University of Singapore

Jul 2012–Apr 2013 Research Assistant; Saw Swee Hock School of Public Health, National University of Singapore

TEACHING EXPERIENCE **Fall 2012** teaching assistant; Quantitative Epidemiological Methods (CO5103), Saw Swee Hock School of Public Health, National University of Singapore

- INVITED PRESENTATIONS
AT SCHOLARLY
MEETINGS/WORKSHOPS
19. Sep 30th, 2019: “Under-5 Mortality Rate Estimation by Place of Residence”, Bio-statistics Group Seminar, KAUST, Thuwal, Saudi Arabia
 18. Nov 6th, 2018: “A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels”, ISI Young Statisticians Regional Workshop – Session 1, 2018 Statistics Week Taiwan, Taipei, Taiwan
 17. Oct 31st, 2018: “Research sharing – SRB estimation and Projection & Estimating Under-5 Mortality Rate by Household Economic Status”, ADRI Department Seminar, Shanghai University, Shanghai, China
 16. Sep 17th, 2018: “Estimate Under-5 Mortality Rate by Residence”, Inter-Agency Group on Mortality Estimation Technical Advisory Group Meeting, New York City, USA
 15. Jul 26th, 2018: “Decomposing the impact of increased educational attainment on demographic dividend in Singapore, 1970–2010”, 12th Global Meeting of the NTA Network, Mexico City, Mexico.
 14. Jul 24th, 2018: “Contribution of in-migration to the first demographic dividend in Singapore, 1970–2010”, 12th Global Meeting of the NTA Network, Mexico City, Mexico.
 13. May 17th, 2018: “Estimating Under-5 Mortality Rate by Household Economic Status”, Professional Update, Saw Swee Hock School of Public Health, National University of Singapore.
 12. May 10th, 2018: “Singapore perspective 2018 survey: an in-depth analysis”, Department Research Seminar, Institute of Policy Studies, LKY School of Public Policy, National University of Singapore.
 11. Apr 26th, 2018: “A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels”, Annual Meeting, Population Association of America, Denver, CO, USA.
 10. May 1st, 2017: “Estimate Under-5 Mortality Rate by Household Economic Status”, Inter-Agency Group on Mortality Estimation Technical Advisory Group Meeting, New York City, USA.
 9. Apr 24th, 2017: “Estimate Under-5 Mortality Rate by Household Economic Status”, Biomedical Science, Engineering and Computing Group joint seminar, Oak Ridge National Lab, Knoxville, USA.
 8. Apr 13th, 2017: “Estimate Under-5 Mortality Rate by Household Economic Status”, Statistics department seminar, University of Massachusetts, Amherst, USA.
 7. Oct 18th, 2016: “A systematic assessment of national, and regional under-five mortality by wealth quintiles and identification of countries with outlying levels using a Bayesian hierarchical time series model”, Inter-Agency Group on Mortality Estimation Technical Advisory Group Meeting, New York City, USA.
 6. Sep 30th, 2016: “A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels”, 2nd Singapore International Public Health Conference and 11th Singapore Public Health & Occupational Medicine Conference, Singapore.

5. Apr 22nd, 2016: "A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels", Statistics Working Group, University of Massachusetts Amherst, USA.
4. Mar 31st, 2016: "A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels", Annual Meeting, Population Association of America, Washington, DC, USA.
3. Jul 29th, 2015: "A Systematic Assessment of National, Regional and Global Levels and Trends in the Sex Ratio at Birth and Identification of Countries with Outlying Levels", Third International Conference of Asian Population Association, Kuala Lumpur, Malaysia.
2. Dec 18th, 2014: "Sex Ratio at Birth", Inter-Agency Group on Mortality Estimation Technical Advisory Group Meeting, New York City, USA.
1. Aug 30th, 2013: "Sex Differences in U5MR: Estimation and identification of countries with outlying levels or trends", XXVII IUSSP International Population Conference, Busan, Korea.

POSTER PRESENTATIONS

4. Nov 20th, 2019: "A Systematic Assessment of National Under-5 Mortality Rate by Place of Residence for 109 Countries using a Bayesian Time Series Model", Statistics and Data Science Workshop, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia.
3. Apr 27th, 2017: "A Systematic Assessment of National, and Regional Under-Five Mortality Rate By Wealth Quintiles and Identification of Countries with Outlying Levels Using a Bayesian Hierarchical Time Series Model", Annual Meeting, Population Association of America, Chicago, USA.
2. Jun 13th, 2016: "Sex Rate at Birth: Estimation and Projection using Bayesian Hierarchical Time Series Model", World Meeting of International Society for Bayesian Analysis, Sardinia, Italy.
1. Aug 27th, 2013: "How informative are vital registration data for estimating maternal mortality? A Bayesian analysis of WHO adjustment data and parameters", XXVII IUSSP International Population Conference, Busan, Korea.