

OMAR KARLSSON, PhD

Duke University Population Research Institute, USA

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Ten years' experience using econometrics, demographic methods, and GIS. Published 29 peer-reviewed articles since 2019. Stata expert. Familiar with Python and Excel. Excellent writing and presentation skills.

EXPERIENCE

- 2022 – **Visiting Research Fellow**
Duke University Population Research Institute and Duke Global Health Institute, USA
- 2020 – **Postdoctoral Fellow**
Lund University, Centre for Economic Demography and Department of Economic History, Sweden
- 2019 – 2022 **Takemi Research Fellow in International Health**
Harvard TH Chan School of Public Health, USA
- 2020 – 2021 **External Consultant**
UNICEF, Nutrition Section, Programme Division, USA
- 2018 – 2019 **Researcher**
Lund University, Centre for Economic Demography, Sweden

EDUCATION

- 2014 – 2018 **PhD in Economic History**
Lund University, School of Economics and Management, Sweden
Supervisors: Martin Dribe and Therese Nilsson.
- 2012 – 2014 **MSc in Economic Demography**
Lund University, School of Economics and Management, Sweden

GRANTS

- 2020 Swedish Research Council, International Postdoc Grant (three years)
- 2020 Handelsbanken, Wallander Scholarship (three years)
- 2016 Handelsbanken, Hedelius Scholarship (one year)

LECTURES AND SEMINARS

- 2023 Korea University: International Symposium on Precision Public Health. Differences in child mortality and morbidity across the first five years in low- and middle-income countries.
- 2021 UNICEF: Nutrition Master Class. To what extent is child mortality and wasting prevalence concentrated before age two? Implications for nutrition and health programs.
- 2020 Harvard Center for Population and Development Studies: Friday Luncheon Seminars. Household technology and child health.

JOURNAL PUBLICATIONS

Jamison, D.T., Summers, L.H., Chang, A.Y., **Karlsson, O.**, Mao, W., Norheim, O.F., Ogbuoji, O., Schäferhoff, M., Watkins, D., Adeyi, O., Alleyne, G., Alwan, A., Anand, S., Nigatu Belachew, R., Berkley, S., Bertozzi, S., Bolongaita, S., Bundy, D., ..., & Yamey, G. (forthcoming). Global health 2050: the road to halving premature death by mid-century. *The Lancet*.

Karlsson, O., Kim, R., Joe, W., & Subramanian, S.V. (forthcoming). International Trends in Zinc Treatment for Diarrhea. *Pediatrics*.

Karlsson, O., Benski, C., Kapoor, M., Kim, R. & Subramanian, S.V. (2024). Association between neonatal mortality and births not weighed among 400 thousand institutional deliveries in 32 low- and middle-income countries. *Journal of Public Health*.
<https://doi.org/10.1093/pubmed/fdae249>

Karlsson, O., Rajpal, S., Johri, M., Kim, R. & Subramanian, S.V. (2024). Prevalence and Trends of Not Receiving a Dose of DPT-Containing Vaccine Among Children 12-35 Months: An Analysis of 81 Low- And Middle-Income Countries. *Journal of Epidemiology and Global Health*. <https://doi.org/10.1007/s44197-024-00294-6>

Karlsson, O., & De Neve, J.-W. (2024). Washing machine ownership and girls' school attendance: A cross-sectional analysis of adolescents in 19 middle-income countries. *The Journal of Economic Inequality*, 1–21.

Karlsson, O., Kim, R., & Subramanian, S. V. (2024). Prevalence of Children Aged 6 to 23 Months Who Did Not Consume Animal Milk, Formula, or Solid or Semisolid Food During the Last 24 Hours Across Low-and Middle-Income Countries. *JAMA Network Open*, 7(2), e2355465–e2355465.

De Neve, J.-W., **Karlsson, O.**, Rai, R. K., Kumar, S. V., & Vollmer, S. (2024). Relationship between adolescent anemia and school attendance observed during a nationally representative survey in India. *Communications Medicine*, 4(1), 112.

Karlsson, O., & Subramanian, S. V. (2023). Refrigerator ownership and child health and nutrition in low-and middle-income countries. *Global Food Security*, 37, 100698.

Karlsson, O., Kim, R., Moloney, G. M., Hasman, A., & Subramanian, S. V. (2023). Patterns in child stunting by age: A cross-sectional study of 94 low-and middle-income countries. *Maternal & Child Nutrition*, 19(4), e13537.

Subramanian, S. V., Khaikar, A., & **Karlsson, O.** (2023). Should India adopt a country-specific growth reference to measure undernutrition among its children? *The Lancet Regional Health - Southeast Asia*, 9. **[Comment]**

Karlsson, O., & Dribe, M. (2022). Maternal height and child health and schooling in sub-Saharan Africa: Decomposition and heterogeneity. *Social Science & Medicine*, 315, [115480].

Karlsson, O. Scarring and selection effects on children surviving elevated rates of postneonatal mortality in sub-Saharan Africa (2022). *SSM - Population Health*, 19, 101160

Karlsson, O., Kim, R., Hasman, A., & Subramanian, S. V. Age Distribution of All-Cause Mortality Among Children Younger Than 5 Years in Low- and Middle-Income Countries (2022). *JAMA Network Open*, 5(5), e2212692-e2212692.

Dribe, M., & **Karlsson, O.** (2022). Inequality in early life: Social class differences in childhood mortality in southern Sweden, 1815–1967. *Economic History Review*, 75(2), 475– 502.

Karlsson, O., Kim, R., Guerrero, S., Hasman, A., & Subramanian, S. V. (2022). Child wasting before and after age two years: A cross-sectional study of 94 countries. *E Clinical Medicine*, 46, 101353.

Subramanian, S. V., **Karlsson, O.**, & Kim, R. (2022). Using height-adjusted stunting prevalence will fail disadvantaged children worldwide, authors reply. *The Lancet Global Health*, 10(5), e621. **[Correspondence]**

Subramanian, S. V., **Karlsson, O.**, & Kim, R. (2022). Revisiting the stunting metric for monitoring and evaluating nutrition policies. *The Lancet Global Health*, 10(2), e179-e180. **[Comment]**

Karlsson, O., Domingue, B. W., Kim, R., & Subramanian, S. V. (2022). Estimating heritability of height without zygosity information for twins under five years in low- and middle-income countries: An application of normal finite mixture distribution models. *SSM - Population Health*, 17, 101043.

Karlsson, O., Kim, R., Hasman, A., & Subramanian, S. V. (2022). Consumption of Vitamin-A-Rich Foods and Vitamin A Supplementation for Children under Two Years Old in 51 Low- and Middle-Income Countries. *Nutrients*, 14(1), 188.

Karlsson, O., Kim, R., Bogin, B., & Subramanian, S. V. (2022). Maternal height-standardized prevalence of stunting in 67 low- and- middle-income countries. *Journal of Epidemiology*, 32(7), 337.

Egbewale, B. E., **Karlsson, O.**, & Sudfeld, C. R. (2022). Childhood Diarrhea Prevalence and Uptake of Oral Rehydration Solution and Zinc Treatment in Nigeria. *Children*, 9(11).

Karlsson, O., Kim, R., Sarwal, R., James, K. S., & Subramanian, S. V. (2021). Trends in underweight, stunting, and wasting prevalence and inequality among children under three in Indian states, 1993–2016. *Scientific Reports*, 11(1), 1-11.

Karlsson, O., Dribe, M., & Subramanian, S. V. (2021). Changing speed of reduction in under-5 mortality rates over the 20th century. *Journal of Epidemiology and Community Health*, 75(1), 36-39.

Li, Z., **Karlsson, O.**, Kim, R., & Subramanian, S. V. (2021). Distribution of under-5 deaths in the neonatal, postneonatal, and childhood periods: a multicountry analysis in 64 low-and middle-income countries. *International journal for equity in health*, 20 (1), 1-11.

Thoma, B., Sudharsanan, N., **Karlsson, O.**, Joe, W., Subramanian, S. V., & De Neve, J. W. (2021). Children's education and parental old-age health: Evidence from a population-based, nationally representative study in India. *Population Studies*, 75(1), 51-66.

Karlsson, O., Kim, R., Joe, W., & Subramanian, S. (2020). The relationship of household assets and amenities with child health outcomes: An exploratory cross-sectional study in India 2015–2016. *SSM-Population Health*, 10, 100513.

Kitara, D. L., & **Karlsson, O.** (2020). The effects of economic stress and urbanization on driving behaviours of Boda-boda drivers and accidents in Gulu, Northern Uganda: a qualitative view of drivers. *The Pan African Medical Journal*, 36.

Subramanian, S. V., Chatterjee, P., & **Karlsson, O.** (2020). Lessons from COVID-19 pandemic for the child survival agenda. *Journal of Global Health*, 10(2). **[Comment]**

Subramanian, S. V., **Karlsson, O.**, Zhang, W., & Kim, R. (2020). Geo-mapping of COVID-19 Risk Correlates Across Districts and Parliamentary Constituencies in India. *Harvard Data Science Review*, (Special Issue 1).

Teufel, F., Geldsetzer, P., Manne-Goehler, J., **Karlsson, O.**, Koncz, V., Deckert, A., Theilmann, M., Marcus, M.-E., Ebert, C., Seiglie, J. A., Agoudavi, K., Andall-Brereton, G., Gathecha, G., Gurung, M. S., Guwatudde, D., Houehanou, C., Hwalla, N., Kagaruki, G. B., Karki, K. B., ... & De Neve, J.-W. (2020). Analysis of Attained Height and Diabetes Among 554,122 Adults Across 25 Low- and Middle-Income Countries. *Diabetes Care*, 43(10), 2403.

De Neve, J.W., **Karlsson, O.**, Canavan, C.R., Chukwu, A., Adu-Afarwuah, S., Bukenya, J., Darling, A.M., Harling, G., Moshabela, M., Killewo, J. and Fink, G. (2020). Are out-of-school adolescents at higher risk of adverse health outcomes? Evidence from 9 diverse settings in sub-Saharan Africa. *Tropical Medicine & International Health*, 25(1), 70–80.

Karlsson, O. (2019). Religion and Child Health in West and Central Africa. *Population and Development Review*, 45(4), 707–738.

Karlsson, O., De Neve, J.-W., & Subramanian, S. V. (2019). Weakening association of parental education: Analysis of child health outcomes in 43 low- and middle-income countries. *International Journal of Epidemiology*, 48(1), 83–97.

Karlsson, O., Kim, R., Joe, W., & Subramanian, S. (2019). Socioeconomic and gender inequalities in neonatal, postneonatal and child mortality in India: A repeated cross-sectional study, 2005–2016. *Journal of Epidemiology and Community Health*, 73(7), 660–667.

De Neve, J.-W., **Karlsson, O.**, Coetzee, L., Schröder, H., Subramanian, S., Bärnighausen, T., & Vollmer, S. (2018). Antiretroviral therapy coverage associated with increased co-residence between older and working-age adults in Africa. *Aids*, 32(14), 2051–2057.

SELECTED PRESENTATIONS

- 2024 Consortium of Universities for Global Health 15th Annual Conference. Life expectancy deficits by cause of death: a life table decomposition.
- 2023 The Population Association of America Annual Meeting. Anemia severity and school attendance among 251 401 adolescents aged 15–18 years: a nationally representative household fixed-effects study in India.
- 2018 European Population Conference. Influence of Disease Environment in Infancy on Childhood Health and Education in Sub-Saharan Africa.
- 2015 The Union for African Population Studies 7th Africa Population Conference. Intergenerational transmission of Capabilities: Mothers and Children in sub-Saharan Africa.

STUDENT SUPERVISION

- 2018 Assistant Supervisor. MSc Thesis in Economic Demography from Lund University by Momoko Nishikido. Principal Supervisor: Jeffrey Neilson. Examiner: Maria Stanfors
- 2016 Assistant Supervisor. MSc Thesis in Economic Demography from Lund University by Angelica Harryson. Principal Supervisor: Kirk Scott. Examiner: Bjorn Eriksson
- 2016 Assistant Supervisor. MSc Thesis in Economic Demography from Lund University by James Austen. Principal Supervisor: Luciana Quaranta. Examiner: Martin Dribe

OTHER ACADEMIC EXPERIENCE

- 2016 – 2017 **Visiting Graduate Student**
Harvard TH Chan School of Public Health, USA
- 2013 **Erasmus Internship**
Estonian Institute for Population Studies, Tallinn University, Estonia
- 2011 – 2012 **Nordplus Student Exchange**
Vilnius University, Lithuania
- 2010 **Erasmus Student Exchange**
American University in Bulgaria
- 2009 – 2011 **BA in Social Studies**
University of Akureyri, School of Humanities and Social Sciences, Iceland