

COMPARISON OF PROBABILITY AND NON-PROBABILITY SAMPLES OF WEB-BASED SURVEY DATA ON COVID-19 VACCINATION

ADJOINT, MSRI/SLMath, June 24 to July 5, 2024

THEORY AND SOFTWARE

- [1] M. P. BATTAGLIA, D. IZRAEL, D. C. HOAGLIN, and M. R. FRANKEL, Practical considerations in raking survey data, *Survey Practice* (June 2009). <https://surveypractice.wordpress.com/2009/06/29/raking-survey-data>.
- [2] J.-C. DEVILLE and C.-E. SÄRNDAL, Calibration estimators in survey sampling, *Journal of the American Statistical Association* **87** (1992), no. 418, 376–382. MR 1173804. Zbl 0760.62010. doi: [10.1080/01621459.1992.10475217](https://doi.org/10.1080/01621459.1992.10475217).
- [3] J.-C. DEVILLE, C.-E. SÄRNDAL, and O. SAUTORY, Generalized raking procedures in survey sampling, *Journal of the American Statistical Association* **88** (1993), no. 423, 1013–1020. Zbl 0794.62005. doi: [10.1080/01621459.1993.10476369](https://doi.org/10.1080/01621459.1993.10476369).
- [4] S. KOLENIKOV, Calibrating survey data using iterative proportional fitting (raking), *The Stata Journal* **14** (2014), no. 1, 22–59. doi: [10.1177/1536867X1401400104](https://doi.org/10.1177/1536867X1401400104).
- [5] S. KOLENIKOV, Updates to the ipfraking ecosystem, *The Stata Journal* **19** (2019), no. 1, 143–184. doi: [10.1177/1536867X19830912](https://doi.org/10.1177/1536867X19830912).
- [6] J. D. PICKREIGN, Iterative proportional fitting as a balancing method in observational studies, *Health Services and Outcomes Research Methodology* **24** (2024), no. 1, 73–94. doi: [10.1007/s10742-023-00304-3](https://doi.org/10.1007/s10742-023-00304-3).

APPLICATIONS

- [1] M. S. HOSSAIN, K. HAQUE, and M. R. FATMI, COVID-19: Modeling out-of-home and in-home activity participation during the pandemic, *Transportation Research Record* **2677** (2023), no. 4, 239–254. doi: [10.1177/03611981211067790](https://doi.org/10.1177/03611981211067790).
- [2] Y. KIM, E. MONTOYA, S. DOOCY, L. J. E. AUSTIN, and M. WHITEBOOK, Impacts of COVID-19 on the early care and education sector in California: variations across program types, *Early Childhood Research Quarterly* **60** (2022), 348–362. doi: [10.1016/j.ecresq.2022.03.004](https://doi.org/10.1016/j.ecresq.2022.03.004).
- [3] E. M. WESTRUPP et al., Child, parent, and family mental health and functioning in Australia during COVID-19: comparison to pre-pandemic data, *European Child and Adolescent Psychiatry* **32** (2023), no. 2, 317–330. doi: [10.1007/s00787-021-01861-z](https://doi.org/10.1007/s00787-021-01861-z).

Date: April 10, 2024.

Bibliography by Melody Goodman.