

# Quantitative Strategies: Philosophy and Assumptions of Quantification

A Short Course

With

SiHP Faculty

23 February – 27 March, 2026

## Course Readings

### Module 1: *Deprivation*

Session 1: Matricciani, L., Olds, T. and Petkov, J. (2012) “In search of lost sleep: Secular trends in the sleep time of school-aged children and adolescents,” *Sleep Medicine Reviews*, 16(3), pp. 203–211.

Session 2: Holt-Lunstad, J., Smith, T.B. and Layton, J.B. (2010) “Social Relationships and Mortality Risk: A Meta-analytic Review,” *PLOS Medicine*, 7(7), p. e1000316.

Session 3: Berman, M.G., Jonides, J. and Kaplan, S. (2008) “The Cognitive Benefits of Interacting With Nature,” *Psychological Science*, 19(12), pp. 1207–1212.

### Module 2: *Inequality*

Session 4: Deaton, A. and Dreze, J. (2002) “Poverty and inequality in India: a re-examination,” *Economic and Political Weekly*, pp. 3729–3748.

Session 5: Chancel, L. and Piketty, T. (2019) “Indian Income Inequality, 1922-2015: From British Raj to Billionaire Raj?,” *Review of Income and Wealth*, 65(S1).

Session 6: McCloskey, D.N. (2014) “Measured, unmeasured, mismeasured, and unjustified pessimism: a review essay of Thomas Piketty’s *Capital* in the twenty-first century,” *Erasmus Journal for Philosophy and Economics*, 7(2), pp. 73–115.

### Module 3: *Well-being*

Session 7: Stone, T. (2018) “The Value of Darkness: A Moral Framework for Urban Nighttime Lighting,” *Science and Engineering Ethics*, 24(2), pp. 607–628.

Session 8: Cajada, L., Stephenson, Z. and Bishopp, D. (2023) “Exploring the Psychometric Properties of the Resilience Scale,” *Adversity and Resilience Science*, 4(3), pp. 245–257.

Session 9: Ura, K., Alkire, S. and Zangmo, T. (2012) “GNH and GNH index,” *The Centre for Bhutan Studies*, pp. 1–60.

### Module 4: *Impact*

Session 10: Freedman, D. (1999) “From association to causation: some remarks on the history of statistics,” *Journal de la société française de statistique*, 140(3), pp. 5–32.

Session 11: Das, J. *et al.* (2016) “The impact of training informal health care providers in India: A randomized controlled trial,” *Science*, 354(6308), p. aaf7384.

Session 12: Deaton, A. and Cartwright, N. (2018) “Understanding and misunderstanding randomized controlled trials,” *Social Science & Medicine*, 210, pp. 2–21.

**Module 5: Extremity**

Session 13: Cologna, V. *et al.* (2025) “Extreme weather event attribution predicts climate policy support across the world,” *Nature Climate Change*, 15(7), pp. 725–735.

Session 14: Shepherd, T.G. (2016) “A Common Framework for Approaches to Extreme Event Attribution,” *Current Climate Change Reports*, 2(1), pp. 28–38.

Session 15: Hansen, J., Sato, M. and Ruedy, R. (2012) “Public Perception of Climate Change and the New Climate Dice,” *Proceedings of the National Academy of Sciences*, 109(37).