

# Contents

---

|  |    |
|--|----|
| Acknowledgements                                       | ix |
| General Introduction Howard R. Vane and Chris Mulhearn | xi |

## PART I TRYGVE HAAVELMO

|   |     |
|---|-----|
| Introduction to Part I: Trygve Haavelmo (1911–99)   | 3   |
| 1. Trygve Haavelmo (1943a), 'The Statistical Implications of a System of Simultaneous Equations', <i>Econometrica</i> , <b>11</b> (1), January, 1–12  | 7   |
| 2. Trygve Haavelmo (1943b), 'Statistical Testing of Business–Cycle Theories', <i>Review of Economic Statistics</i> , <b>25</b> (1), February, 13–18   | 19  |
| 3. Trygve Haavelmo (1944), 'The Probability Approach in Econometrics', <i>Econometrica</i> , <b>12</b> , Supplement, July, iii–viii, 1–115  | 25  |
| 4. M.A. Girshick and Trygve Haavelmo (1947), 'Statistical Analysis of the Demand for Food: Examples of Simultaneous Estimation of Structural Equations', <i>Econometrica</i> , <b>15</b> (2), April, 79–110 | 146 |

## PART II JAMES J. HECKMAN

|  |     |
|--|-----|
| Introduction to Part II: James J. Heckman (b. 1944)  | 181 |
| 5. James Heckman (1974), 'Shadow Prices, Market Wages, and Labor Supply', <i>Econometrica</i> , <b>42</b> (4), July, 679–94  | 185 |
| 6. James J. Heckman (1976), 'A Life-Cycle Model of Earnings, Learning, and Consumption', <i>Journal of Political Economy</i> , <b>84</b> (4, Part 2), August, S11–S44, references  | 201 |
| 7. James J. Heckman (1979), 'Sample Selection Bias as a Specification Error', <i>Econometrica</i> , <b>47</b> (1), January, 153–61   | 237 |
| 8. James Heckman (1990), 'Varieties of Selection Bias', <i>American Economic Review, Papers and Proceedings</i> , <b>80</b> (2), May, 313–18   | 246 |
| 9. Stephen V. Cameron and James J. Heckman (1998), 'Life Cycle Schooling and Dynamic Selection Bias: Models and Evidence for Five Cohorts of American Males', <i>Journal of Political Economy</i> , <b>106</b> (2), April, 262–333 | 252 |
| 10. James J. Heckman, Thomas M. Lyons and Petra E. Todd (2000), 'Understanding Black–White Wage Differentials, 1960–1990', <i>American Economic Review</i> , <b>90</b> , (2), May, 344–9   | 324 |



**PART III DANIEL L. McFADDEN**

*Introduction to Part III: Daniel L. McFadden (b. 1937)* 333

11. Daniel McFadden (1974), 'Conditional Logit Analysis of Qualitative Choice Behavior', in Paul Zarembka (ed.), *Frontiers in Econometrics*, Chapter 4, New York: Academic Press, 105–42 337
12. Daniel McFadden (1975), 'The Revealed Preferences of a Government Bureaucracy: Theory', *Bell Journal of Economics*, 6 (2), Autumn, 401–16 375
13. Daniel McFadden (1976), 'The Revealed Preferences of a Government Bureaucracy: Empirical Evidence', *Bell Journal of Economics*, 7 (1), Spring, 55–72 391
14. Daniel McFadden (1978), 'Modelling the Choice of Residential Location', in Anders Karlqvist, Lars Lundqvist, Folke Snickars and Jörgen W. Weibull (eds), *Spatial Interaction Theory and Planning Models*, Chapter 3, Amsterdam: North-Holland, 75–96 409

**PART IV ROBERT F. ENGLE**

*Introduction to Part IV: Robert F. Engle (b. 1942)* 433

15. Robert F. Engle (1982), 'Autoregressive Conditional Heteroscedasticity with Estimates of the Variance of United Kingdom Inflation', *Econometrica*, 50 (4), July, 987–1007 437
16. Robert F. Engle, David M. Lilien and Russell P. Robins (1987), 'Estimating Time Varying Risk Premia in the Term Structure: The ARCH-M Model', *Econometrica*, 55 (2), March, 391–407 458
17. Robert F. Engle and C.W.J. Granger (1987), 'Co-integration and Error Correction: Representation, Estimation, and Testing', *Econometrica*, 55 (2), March, 251–76 475

**PART V CLIVE W.J. GRANGER**

*Introduction to Part V: Clive W.J. Granger (b. 1934)* 503

18. C.W.J. Granger (1969), 'Investigating Causal Relations by Econometric Models and Cross-Spectral Methods', *Econometrica*, 37 (3), July, 424–38 507
19. J.M. Bates and C.W.J. Granger (1969), 'The Combination of Forecasts', *Operational Research Quarterly*, 20 (4), December, 451–68 522
20. C.W.J. Granger and P. Newbold (1974), 'Spurious Regressions in Econometrics', *Journal of Econometrics*, 2 (2), July, 111–20 540

21. C.W.J. Granger (1981), 'Some Properties of Time Series Data and Their Use in Econometric Model Specification', *Journal of Econometrics*, **16** (1) May, 121–30 550
22. C.W.J. Granger and A.A. Weiss (1983), 'Time Series Analysis of Error-Correction Models', in Samuel Karlin, Takeshi Amemiya and Leo A. Goodman (eds), *Studies in Econometrics, Time Series, and Multivariate Statistics*, New York: Academic Press, 255–78 560
- Name Index* 585