# Contents

Acknowledgments

## Part I Background

1 **Introduction**  
   1.1 Why compare Germany and the United States?  
   1.2 Why study income mobility around job loss and retirement?  
   1.3 Overview of the study

2 **Welfare state change and income mobility: a framework**  
   2.1 Income mobility: relevance, limitations, and empirical approaches  
   2.2 Income mobility around adverse life events – a framework  
   2.3 The focal events: job loss and retirement

3 **Institutional context and social policy change**  
   3.1 Macroeconomic context  
   3.2 Differences and trends in the employment levels of older people  
   3.3 Institutional context and the (re)employment prospects of older workers  
   3.4 Differences and changes in public and employment-based protection  
   3.5 Female labor force participation and earnings arrangements  
   3.6 Summary

4 **Data and methods**  
   4.1 Conceptual framework and analytic strategy  
   4.2 Implementation of DID matching and compositional adjustments  
   4.3 Data and key measures
Part II  Economic consequences of retirement

5  Literature review and research questions  149
  5.1 Why should economic well-being change at retirement?  150
  5.2 Institutional context and income changes at retirement: research questions and hypotheses  155
  5.3 Previous research on income change at retirement  162

6  The changing economic consequences of retirement  167
  6.1 Retirement patterns and economic situation of non-working individuals  167
  6.2 Sample characteristics and details of estimation approach  171
  6.3 Income changes around exit from work  179
  6.4 Summary and conclusions  202
  6.5 Additional results  210

Part III  Economic consequences of late-career job loss

7  Literature review and research questions  219
  7.1 Employment, earnings and household income after late-career job loss  220
  7.2 Institutional context and the impact of late-career job loss on employment and income: research questions and hypotheses  224
  7.3 Previous empirical research  232

8  The changing economic consequences of late-career job loss  239
  8.1 Sample characteristics and details of estimation approach  239
  8.2 Empirical results  243
  8.3 Summary and conclusions  279
  8.4 Additional results  285

Part IV  Conclusion

9  Conclusion  293
  9.1 Key findings: welfare regimes and the ‘Great Risk Shift’ revisited  294
  9.2 Implications and directions for future research  302
List of Figures

Figure 3.1  Macroeconomic context: GDP growth and unemployment rate 55
Figure 3.2  Employment rates by gender and age 57
Figure 3.3  Trends in the relative importance of different income components, ages 66-70 92
Figure 4.1  Conceptualizing the effect of an event 118
Figure 6.1  Age- and cohort-specific proportions of workers remaining at risk of exit from work 168
Figure 6.2  Men – income changes around retirement 181
Figure 6.3  Women – income changes around retirement 186
Figure 6.4  Men – poverty entry around retirement 189
Figure 6.5  Women – poverty entry around retirement 191
Figure 6.6  Men – proportion of retirees with large income losses 195
Figure 6.7  Women – proportion of retirees with large income losses 196
Figure 6.8  Educational differences in income changes around retirement – voluntary retirees only 198
Figure 6.9  Differences in income changes by retirement age – voluntary retirees only 201
Figure 8.1  Proportion of displaced workers with no/marginal employment and differences to matched control group (DID matching estimates) 251
Figure 8.2  Men – income changes around late-career job loss and differences to matched control group (DID matching estimates) 256
Figure 8.3  Women – income changes around late-career job loss and differences to matched control group (DID matching estimates) 263
Figure 8.4  Poverty entries after late-career job loss and differences to matched control group (DID matching estimates) 266
Figure 8.5  Proportion of workers with very large income losses (> 50%) after late-career job loss and differences to matched control group (DID matching estimates)  268
Figure 8.6  DID matching estimates of changes in partner’s labor supply and earnings around men’s job loss  271
Figure 8.7  DID matching estimates of changes in partner’s labor supply and earnings around women’s job loss  273

List of Tables

Table 3.1  Ad-hoc extensions of maximum unemployment benefit duration, 1980–2008  73
Table 3.2  Replacement rates of German unemployment benefits since 1980  74
Table 3.3  Net replacement rates for male workers at different earnings levels  81
Table 3.4  Changes in US social security net replacement rates (RR) by level of earnings  83
Table 3.5  Early retirement options in Germany  96
Table 3.6  Employment to population ratio (EPR) and prevalence of part-time work at ages 50–54  108
Table 3.7  Earnings arrangements at ages 50–54 (column percentages)  109
Table 4.1  Income components and income aggregates  137
Table 6.1  Financial situation of individuals with no or marginal employment at age 50  170
Table 6.2  Retiree and partner characteristics  176
Table 6.3  Characteristics included in compositional adjustment (entropy balancing)  179
Table 6.4  Changes in income components around retirement – voluntary retirees only  183
Table 6.5  Variability of income changes – voluntary retirees only  193
Table 6.6  Income changes at retirement by education and private non-labor income – American men retiring voluntarily  199
Table 6.7  Main findings – Chapter 6  204
Table 6.A.1  Period differences in retiree composition – male voluntary retirees  210
Table 6.A.2  Period differences in retiree composition – female voluntary retiree composition

Table 6.A.3  Changes in income components around retirement – voluntary retirees only – composition-adjusted estimates (excluding partner’s employment status and retirement)

Table 6.A.4  Changes in income components around retirement – voluntary retirees only – composition-adjusted estimates (including partner's employment status and retirement)

Table 6.A.5  Variability of income changes – voluntary retirees only – composition-adjusted estimates (excluding partner’s employment status and retirement)

Table 6.A.6  Variability of income changes – voluntary retirees only – composition-adjusted estimates (including partner's employment status and retirement)

Table 8.1  Characteristics included in coarsened exact matching (cem), entropy balancing (eb), and additional regression-based adjustment

Table 8.2  Men – worker and partner characteristics by treatment and matching status

Table 8.3  Women – worker and partner characteristics by treatment and matching status

Table 8.4  Changes in income components around late-career job loss

Table 8.5  Income buffering through private income and the welfare state

Table 8.6  Men – income dynamics by employment trajectory after late-career job loss

Table 8.7  Changes in income components for men retiring after late-career job loss

Table 8.8  Income buffering through private income and the welfare state for men retiring after late-career job loss

Table 8.9  Main findings – Chapter 8

Table 8.A.1  Men – period differences in worker composition – matched workers experiencing job loss

Table 8.A.2  Women – period differences in worker composition – matched workers experiencing job loss
| Table 8.A.3 | Changes in income components around late-career job loss – matched workers only – composition-adjusted results | 287 |
| Table 8.A.4 | Income buffering through private income and the welfare state – composition-adjusted results | 288 |
| Table 8.A.5 | Women – income dynamics by employment status after late-career job loss | 289 |