

LIST OF FIGURES

Figure 1.1	
The Circumplex Model of Emotion as Proposed by Watson & Tellegen (1985).....	4
Figure 1.2	
Schematic Representation of Intraindividual Variability as Fluctuation and as Change.....	6
Figure 1.3	
Cattell's (1952, 1966) Three-Dimensional Data-Box (Persons × Variables × Occasions).....	12
Figure 1.4	
Schematic Overview of Age-Related Differences in the Antecedents of Intraindividual Variability in Affect and the Association Between Variability in Affect and Age	26
Figure 3.1	
Overview of the General Study Design of Intraindividual Dynamics Project.....	70
Figure 3.2	
Overview of Specific Design and Central Constructs for the Present Study	76
Figure 4.1	
Nine-Week Trajectories of Positive Affect (PA) and Negative Affect (NA) for 18 Young and 19 Older Adults (PANAS-Items)	104
Figure 4.2	
Schematic Representation of Variability Between and Within Individuals.....	105
Figure 4.3	
Proportions of Within-Person and Between-Person Variance in Day-to-Day Positive and Negative Affect (based on the Intraclass Correlation Coefficient obtained from the Random Coefficient Results of Multilevel Modeling Analyses)	107
Figure 4.4	
Age Differences in the Relative Proportions of Within-Person and Between-Person Variance in Day-to-Day Positive and Negative Affect	121
Figure 4.5	
Age-Related Differences in Day-to-Day Fluctuation of PA and NA Across 45 Days	122
Figure 4.6	
Age-Related Differences in Day-to-Day Variability (Fluctuation) of Hedonic Balance Across 45 Days	125
Figure 4.7	
Proportions of Unique and Shared Variance Explained by Age Group and Personality in the Prediction of Variability (Fluctuation) in Positive and Negative Affect.....	130
Figure 4.8	
The Moderating Effect of Age Group on the Within-Person Coupling of Daily Positive and Negative Events with Daily Positive Affect.....	137
Figure 4.9	
Trajectories of Mean Reaction Times (RT) for Hits in Vigilance Task (Raw Data).....	143
Figure 4.10	
Individual Differences in Within-Person Coupling Between Daily Affect and Daily Vigilance Reaction Time Performance.....	144

Figure 4.11 Individual Differences in Within-Person Associations Between Daily Affect and Daily Working Memory Reaction Time Performance.....	148
Figure 5.1 Hypothetical data showing the association of negative affect and reaction time performance at the between-person level (left graph) and both at the between-person and within-person level (right graph).....	181

LIST OF TABLES

Table 1.1	
Overview of Lifespan Theoretical Propositions Important for the Study of Short-Term Intraindividual Variability	8
Table 1.2	
Overview of Two Scenarios about the Association of Intraindividual Variability and Age.....	21
Table 1.3	
Overview of Empirical Findings on Age-Related Differences in Emotional Functioning	23
Table 1.4	
Overview of Two Perspectives on the Functional Value of High Levels of Variability.....	35
Table 1.5	
Overview of Theoretical Models on the Resource Allocation Perspective in Emotion–Cognition Coupling (Ordered by General Proposed Mechanism)	48
Table 1.6	
Overview of Potential Age-Related Differences in Emotion-Cognition Coupling.....	51
Table 2.1	
Overview of Research Questions and Hypotheses	67
Table 3.1	
Daily Assessment Protocol (Sessions lasted 1 hour).....	72
Table 3.2	
Participation Rates in Daily Sample ($N = 37$)	75
Table 3.3	
Overview of Central Baseline and Daily as Well as Control Instruments	79
Table 3.4	
Sociodemographic Characteristics of the Daily Dynamics Sample by Age Group	89
Table 3.5	
Subjective Health and Intellectual Functioning in the Daily Dynamics Sample by Age Group ($N = 37$)	90
Table 4.1	
Characteristics of Within-Person and Observed Between-Person Variability in Daily Affect	106
Table 4.2	
Daily Affect Data: Number of Participants with Lack of Variability Across the Daily Assessment Period.....	108
Table 4.3	
Descriptives of Aggregated Day-to-Day Positive Affect, Negative Affect, and Hedonic Balance for Young and Older Adults and Correlation with Chronological Age	109
Table 4.4	
Multilevel Modeling Results of Intraindividual Mean Levels of Day-to-Day Positive Affect (PA) as a Function of Age Group.....	111
Table 4.5	
Multilevel Modeling Results of Intraindividual Mean Levels of Day-to-Day Negative Affect (NA) as a Function of Age Group.....	112

Table 4.6	
Fixed Effects Results from Multilevel Modeling on Age-Related Differences in Time-Related Trends of Day-to-Day PA and NA	117
Table 4.7	
Results of Repeated Measures Analyses of Variance on Age Group Differences in Day-to-Day Variability (Fluctuation) in PA and NA After Controlling for Time-Related Trends and Mean Daily Affect Levels Across 45 Days	123
Table 4.8	
Results of Follow-Up Analyses of Variance on Age Group Differences in Day-to-Day Variability (Fluctuation) in PA and NA After Controlling for Time-Related Trends and Mean Daily Affect Levels Across 45 Days	124
Table 4.9	
Results of Hierarchical Multiple Regression Predicting Variability (Fluctuation) in Positive and Negative Affect.....	128
Table 4.10	
Bivariate Correlations for Young and Older Adults Between Intraindividual Variability (Fluctuation) in PA and NA With Trait Indicators of Psychological Well-Being and Happiness	132
Table 4.11	
Results from Multilevel Modeling Analyses on Within-Person Coupling and Age-Related Differences in Coupling of Daily Positive Affect with Daily Stress and Events	135
Table 4.12	
Results from Multilevel Modeling Analyses on Within-Person Coupling and Age-Related Differences in Coupling of Daily Negative Affect with Daily Stress and Events.....	138
Table 4.13	
Results of Multilevel Modeling Analyses Estimating the Coupling of Daily Affect with Daily Reaction Time Performance in Vigilance	145
Table 4.14	
Results of Multilevel Modeling Analyses Estimating the Coupling of Daily Affect with Daily Reaction Time Performance in Working Memory.....	149
Table 4.15	
Fixed Effect Results of Multilevel Modeling Analyses Estimating Individual Differences in the Coupling of Daily Affect with Daily Reaction Time Performance in Vigilance	151
Table 4.16	
Fixed Effect Results of Multilevel Modeling Analyses Estimating Individual Differences in the Coupling of Daily Affect with Daily Reaction Time Performance in Working Memory..	153
Table 4.17	
Overview of Research Questions and Summary of Supported and Unsupported Hypotheses..	156

LIST OF TABLES IN APPENDIX

Table A1	
Taxonomies of Intraindividual Variability (in Chronological Order)	225
Table B1	
Distribution of Young and Older Participants Across Testing Time Slots	227
Table B2	
Translations of Affect Items from PANAS and Circumplex Models	227
Table B3	
Descriptive Statistics for Central Aggregated Daily and Trait Variables ($N = 37$)	228
Table B4	
Descriptive Statistics for Background and Control Variables ($N = 37$)	229
Table B5	
Frequencies of and Commentaries to Endorsed Ratings of Typicality of Daily Testing Period by Age Group	230
Table C1	
Descriptives of Daily Positive Affect (PANAS) for Each Participant (Scale: 1–8)	231
Table C2	
Descriptives of Daily Negative Affect (PANAS) for Each Individual (Scale: 1–8)	232
Table C3	
Descriptives of Daily Hedonic Balance for Each Individual	233
Table C4	
Characteristics of Within-Person and Between-Person Variance in Daily Positive and Negative Affect: An Alternative to Nesselrode & Salthouse (2004)	234
Table C5	
Multilevel Modeling Results of Predicting Intraindividual Mean Levels of Day-to-Day Hedonic Balance by Age Group Using Full Maximum Likelihood Estimation	235
Table C6	
Descriptives of Frequency and Intensity of Daily Positive Affect (PA) and Daily Negative Affect (NA) for Young and Older Adults and Correlation with Chronological Age... ..	236
Table C7	
Results of Repeated Measures Analyses of Variance on Age Group Differences in Intensity of Daily Positive and Negative Affect	237
Table C8	
Results of Repeated Measures Analyses of Variance on Age Group Differences in Frequency of Daily Positive and Negative Affect	237
Table C9	
Results of Fitting a Sequence of Multilevel Growth Models to Day-to-Day Positive Affect	238
Table C10	
Results of Fitting a Sequence of Multilevel Growth Models to Day-to-Day Negative Affect	239

Table C11	
Random Effects Results and Model Fit from Multilevel Modeling Analyses of Age-Related Differences in Trajectories of Day-to-Day PA and NA Using Full Maximum Likelihood Estimation.....	240
Table C12	
Descriptives of Young and Older Adults' Retrospective Appraisals of Mood Fluctuations During Daily Assessment Phase.....	241
Table C13	
Intraindividual Variability in Positive Affect and Pleasantness Items for Each Age Group.....	242
Table C14	
Intraindividual Variability in Negative Affect and Unpleasantness Items for Each Age Group.....	243
Table C15	
Intercorrelation of Variables Used in Main and Follow-Up Analyses to Predict Variability in PA and NA.....	245
Table C16	
Results of Hierarchical Multiple Regression Predicting Variability in Positive and Negative Affect (after Controlling for Gender, Education, Mean Levels of Daily Affect and Trait Affect Intensity).....	245
Table C17	
Sequence of Multilevel Models Predicting Daily Positive Affect With Daily Stress and Events.....	246
Table C18	
Sequence of Multilevel Models Examining Age Group Differences in Level and Coupling of Daily PA With Daily Stress and Events.....	247
Table C19	
Random Effect Results from Multilevel Models Predicting Daily Positive Affect by Daily Stress and Events in Total Sample and in Age Group Differences Model.....	248
Table C20	
Sequence of Multilevel Models Predicting Daily Negative Affect With Daily Stress and Events.....	249
Table C21	
Sequence of Multilevel Models Examining Age Group Differences in Level and Coupling of Daily Negative Affect With Daily Stress and Events.....	250
Table C22	
Random Effect Results from Multilevel Models Predicting Daily Negative Affect by Daily Stress and Events in Total Sample and in Age Group Differences Model.....	251
Table C23	
Results from Multilevel Model on Coupling and Age-Related Differences in the Coupling of Daily Hedonic Balance with Daily Stress and Events.....	252
Table C24	
Results of Multilevel Modeling Analyses Estimating Learning in the Daily Vigilance Performance.....	253

Table C25	
Results of Multilevel Modeling Analyses Estimating the Coupling of Daily Hedonic Balance with Daily Reaction Time Performance in Working Memory.....	254
Table C26	
Fixed Effect Results and Fit of Multilevel Modeling Analyses Estimating Individual Differences in the Coupling of Daily Hedonic Balance with Daily Reaction Time Performance in Working Memory.....	255