

## **The Structure of Temperament from Infancy through Adolescence**

SAMUEL P. PUTNAM<sup>1</sup>, LESA K. ELLIS, AND MARY K. ROTHBART

### **Introduction**

In this chapter, we discuss our recent findings concerning the structure of temperament throughout the opening decades of life. We have defined temperament as constitutionally based individual differences in reactivity and self-regulation, influenced over time by heredity and experience (Rothbart & Derryberry, 1981). By reactivity, we are referring to motor, emotional, and attentional responses to internal and external stimuli. Self-regulation refers to processes serving to modulate reactivity, including approach/withdrawal, inhibitory control and effortful control of attention.

The remarkable changes in behavior and motivation between infancy, childhood and adolescence create unique challenges for the study of temperament. Although temperament pertains to relatively stable dispositions, its elicitors and expressions often change during the course of development. For example, although infants and toddlers show fear to novel surroundings or a costumed adult, this reaction is rare in older children, who may fear evaluation or social rejection. Similarly, fear expression in toddlers takes a number of readily recognizable forms, including clinging to a caregiver and crying, whereas fear is more internalized in adolescents.

Temperament itself also develops over time. One example of this is the development of fearful wariness during the second half of the first year (Putnam, 1999; Rothbart, 1988; Schaeffer, Greenwood, & Parry, 1972). In early infancy, babies are able to distinguish between novel and familiar objects, but will approach both at about the same rate. By 8 months, however, infants become more hesitant in approaching novel or intense objects. Similarly, although individual differences in attentional control can be seen late in the first year through infants' duration of orienting to objects, the effortful control of impulses based on executive attention develops slowly through the toddler, preschool, and grade school years. In addition, neural areas thought to be integral to executive functions and effortful control, such as areas subserving working memory and divided attention, undergo extensive maturation during adolescence (Casey, Giedd, and Thomas, in press).

### **Questionnaire Development**

One approach to the study of developmental change and continuity in temperament involves the use of parent and self-reports of behavior. Although Kagan (1994) has argued that parent report is not appropriate for the study of temperament, there is evidence that parents can be reliable observers of their own children and that parent reports contain substantial objective validity (Rothbart & Bates, 1998; Rothbart & Mauro, 1990). In addition, both parent- and self-report questionnaire approaches hold several important advantages over observational methods. Parents view their children in a wide range of

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# Temperament Infancy Through Adolescence

**William B. Carey, Allen C. Crocker, Ellen  
Roy Elias, William P. Coleman**

## **Temperament Infancy Through Adolescence:**

Temperament Diana Wright Guerin,2003-03-31 The Fullerton Longitudinal Study launched in 1979 chronicled the development of over 100 children and their families from the children s first birthday through their high school completion using a cross informant cross context methodology In this volume the developmental course and sequelae of children s temperament from age 1 5 years through high school completion are documented It is an important resource for developmental researchers clinicians educators and students *Temperament* Diana Wright Guerin,Allen W. Gottfried,Pamella H. Oliver,Craig W. Thomas,2012-09-16

The Fullerton Longitudinal Study launched in 1979 chronicled the development of over 100 children and their families from the children s first birthday through their high school completion using a cross informant cross context methodology In this volume the developmental course and sequelae of children s temperament from age 1 5 years through high school completion are documented It is an important resource for developmental researchers clinicians educators and students *Temperament* Diana Wright Guerin,Allen W. Gottfried,Pamella H. Oliver,Craig W. Thomas,2012-12-06

Your good nature will bring you much happiness Peking Noodle Co We began this book with the belief that there are individual differences in tempera ment that impact the trajectory of the course of development At a particular point in time the impact may be small but over time the effect of these small tweaks may come to be associated with significant and meaningful differences in our indi vidual destinations In this book we examined the relations between temperament and various domains of development as well as the home and family environ ment to document the short and long term sequelae of various temperamental characteristics to test this belief It takes a certain temperamental profile to complete a collaborative longitu dinal research project spanning two decades Especially during the project s early years when we were directly assessing the development of over 100 children twice yearly and visiting their homes high activity level was required Our biological rhythms were constantly disrupted as we worked to complete data coding we used punch cards then and checking before the next wave of assessments began We learned to approach new problems and tasks with intensity to be adaptable when appointments had to be rescheduled to be sensitive to changes in our study families situations and that a positive mood is essential We were not easily distracted from our goal of following the study participants through high school completion and our persistence has made all the difference The Wiley-Blackwell Handbook of Infant Development, Volume 1 J. Gavin Bremner,Theodore D. Wachs,2010-09-20 Now part of a two volume set the fully revised and updated second edition of The Wiley Blackwell Handbook of Infant Development Volume 1 Basic Research provides comprehensive coverage of the basic research relating to infant development Updated fully revised and expanded this two volume set presents in depth and cutting edge coverage of both basic and applied developmental issues during infancy Features contributions by leading international researchers and practitioners in the field that reflect the most current theories and research findings Includes editor commentary and analysis to synthesize the

material and provide further insight The most comprehensive work available in this dynamic and rapidly growing field

**Handbook of Temperament** Marcel Zentner, Rebecca L. Shiner, 2015-09-01 Timely and authoritative this unique handbook explores the breadth of current knowledge on temperament from foundational theory and research to clinical applications Leaders in the field examine basic temperament traits assessment methods and what brain imaging and molecular genetics reveal about temperament's biological underpinnings The book considers the pivotal role of temperament in parent child interactions attachment peer relationships and the development of adolescent and adult personality and psychopathology Innovative psychological and educational interventions that take temperament into account are reviewed Integrative in scope the volume features extensive cross referencing among chapters and a forward looking summary chapter

**Developmental-Behavioral Pediatrics** William B. Carey, Allen C. Crocker, Ellen Roy Elias, William P. Coleman, 2009-04-28 The fourth edition of Developmental Behavioral Pediatrics the pioneering original text emphasizes children's assets and liabilities not just categorical labels It includes fresh perspectives from new editors Drs William Coleman Ellen Elias and Heidi Feldman as well as further contributions from two of the original editors William B Carey M D and Allen C Crocker M D This comprehensive resource offers information and guidance on normal development and behavior genetic influences the effect of general physical illness and psychosocial and biologic factors on development and behavior It is also sufficiently scholarly and scientific to serve as a definitive reference for researchers teachers and consultants With a more user friendly design and online access through Expert Consult functionality this resource offers easy access comprehensive guidance Features new chapters dealing with genetic influences on development and behavior crisis management coping strategies self esteem self control and inborn errors of metabolism to cover the considerable advances and latest developments in the field Focuses on the clinical aspects of function and dysfunction rather than arranging subjects according to categorical labels Emphasizes children's assets as well as their liability so you get a well developed approach to therapeutic management Concludes each chapter with a summary of the principle points covered with tables pictures and diagrams to clarify and enhance the presentation Offers a highly practical focus emphasizing evaluation counseling medical treatment and follow up Features superb photos and figures that illustrate a wide variety of concepts Offers access to the full text online through Expert Consult functionality at [www.expertconsult.com](http://www.expertconsult.com) for convenient reference from any practice location Features new chapters dealing with Genetic Influences on Development and Behavior Crisis Management Coping Strategies Self Esteem Self Control and Inborn Errors of Metabolism Presents a new two color design and artwork for a more visually appealing and accessible layout Provides the latest drug information in the updated and revised chapters on psychopharmacology Introduces Drs William Coleman Ellen Elias and Heidi Feldman to the editorial team to provide current and topical guidance and enrich the range of expertise and clinical experience Covers the considerable advances and latest developments in this subspecialty through updates and revisions to existing material Your

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**Early Development and Leadership** Susan E. Murphy, Rebecca Reichard, 2012-03-29 Today we often look to our leaders in business government or the social sector to make effective decisions in a complex world Whether they are asked what steps to take to improve competitiveness in a global economy or to make tough ethical choices well trained leaders are critical to organizational effectiveness Although we know much about leadership development for individuals after they take their first job we know relatively little about their earlier experiences that contributed to their interest in leadership or subsequent effectiveness as leaders This volume brings together researchers who explore leadership at different points before individuals enter the workforce and asks important questions surrounding definitions of leadership behavior necessary leader skills and age related leader tasks factors contributing to development of leader identity and ways to improve the process of leader development With contributions from well known leadership researchers such as Robert Sternberg Howard Gardner Bruce Avolio and Susan Komives the volume shows research evidence for factors such as early childhood and youth experiences on leadership development which have implications for the way we understand and train leadership in today s organizations

**Child and Adolescent Psychiatry** Savita Malhotra, Paramala Santosh, 2016-11-25 This is a comprehensive volume on issues and concerns relating to child and adolescent mental health in Asia which includes contributions from experts in child psychiatry from Asia and other parts of the world The chapters provide accurate and detailed accounts of the current state of knowledge integrating research approaches and findings from clinical studies Each chapter discusses existing information emphasizes areas of growth and provides fresh insights on a particular topic especially as these might relate to Asian populations The book integrates various clinical and scientific perspectives on psychiatric disorders in children and adolescents with a focus on Asia The various sections deal with important topics in child and adolescent psychiatry the current understanding of mental disorders and the ways in which possible influences might work in the development of psychopathology substance use disorders their neurobiological correlates and implications for the developing brain early environmental influences in the psychopathology of psychiatric disorders in children issues of parenting child rearing and cultural practices in Asia which influence personality development and adaptation life long impact of early parental loss early diagnosis and intervention in recognizing and treating psychopathology psychopharmacology of neurodevelopmental disorders in children non pharmacological treatments for children mental health gap and telepsychiatry as an innovative model to provide services for children and a pressing need for a comprehensive child mental health policy across nations

*The Oxford Handbook of Infant, Toddler, and Preschool Mental Health Assessment* Rebecca

DelCarmen-Wiggins,Alice S. Carter,2019-11-29 This fully updated new edition of The Oxford Handbook of Infant Toddler and Preschool Mental Health Assessment remains the leading reference for those seeking to understand and assess mental health in infants and young children Detailing the latest empirical research on measures and methods of infant and young child assessment and providing clinically applicable information for practitioners this handbook takes a closer look at current developmentally based conceptualizations of mental health function and dysfunction in infants and young children as well as current and new diagnostic criteria in specific disorders such as sensory modulation dysfunction autism spectrum disorders affective disorders and post traumatic stress disorder Presented in four sections chapters correspond to four broad themes contextual factors in early assessment temperament and regulation in assessment of young children early problems and disorders and translation and varied applied settings for assessment Each chapter presents state of the science information on valid developmentally based clinical assessment and makes recommendations based on developmental theory empirical findings and clinical experience Chapters have been added to this second edition covering family assessment early care and educational environments new approaches for distinguishing temperament from psychopathology assessing language and implementing second stage screening and referral The volume recognizes and highlights the important role of developmental social and cultural contexts in approaching the challenge of assessing early problems and disorders This new updated volume will be an ideal resource for teachers researchers and a wide variety of clinicians and trainees including child psychologists and psychiatrists early interventionists and early special educators

**The Oxford Handbook of Developmental Psychology, Vol. 2** Philip David Zelazo,2013-01-15 Research in developmental psychology which examines the history origins and causes of behavior and age related changes in behavior seeks to construct a complex multi level characterization of behavior as it unfolds in time across a range of time scales from the milliseconds of reaction time to the days and weeks of childhood the decades of the human lifespan and even beyond to multiple generations Behavior in this view is embedded within what is essentially a dynamic system of relations extending deep within individuals Thorough and engaging this handbook explores the impact of this research on what is now known about psychological development from birth to biological maturity and it highlights the extent to which the most cutting edge developmental science reflects a new kind of intellectual synthesis one that reveals how cultural social cognitive neural and molecular processes work together to yield human behavior and changes in human behavior With insightful contributions from more than 50 of the world s leading developmental scientists these two volumes will serve as an influential and informed text for students and as an authoritative desk reference for years to come

**The Oxford Handbook of Developmental Psychology, Vol. 2** Philip David Zelazo,2013-03-14 This handbook provides a comprehensive survey of what is now known about psychological development from birth to biological maturity and it highlights how cultural social cognitive neural and molecular processes work together to yield human behavior and changes in human behavior

*Rutter's Child and Adolescent Psychiatry* Anita Thapar,Daniel S.

Pine, James F. Leckman, Stephen Scott, Margaret J. Snowling, Eric A. Taylor, 2017-12-26 Rutter's Child and Adolescent Psychiatry is the leading textbook in its field. Both interdisciplinary and international, it provides a coherent appraisal of the current state of the field to help researchers, trainees, and practicing clinicians in their daily work. Integrating science and clinical practice, it is a comprehensive reference for all aspects of child and adolescent psychiatry. New to this full color edition are expanded coverage on classification including the newly revised Diagnostic and Statistical Manual of Mental Disorders DSM 5 and new chapters on systems neuroscience, relationship based treatments, resilience, global psychiatry, and infant mental health. From an international team of expert editors and contributors, this sixth edition is essential reading for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology, as well as for clinicians working in primary care and pediatric settings. Michael Rutter has contributed a number of new chapters and a Foreword for this edition. I greatly welcome this new edition as providing both a continuity with the past and a substantial new look. Professor Sir Michael Rutter, extract from Foreword. Reviews of previous editions: This book is by far the best textbook of Child Adolescent Psychiatry written to date. Dr Judith Rapoport, NIH. The editors and the authors are to be congratulated for providing us with such a high standard for a textbook on modern child psychiatry. I strongly recommend this book to every child psychiatrist who wants a reliable, up to date, comprehensive, informative, and very useful textbook. To my mind, this is the best book of its kind available today. Journal of Child Psychology and Psychiatry. The Wiley-Blackwell Handbook of Infant Development, 2 Volume Set. J. Gavin Bremner, Theodore D. Wachs, 2014-01-28. Now in two volumes, the fully revised and updated second edition of The Wiley Blackwell Handbook of Infant Development provides comprehensive coverage of the basic research and applied and policy issues relating to infant development. Updated, fully revised, and expanded, this two volume set presents in depth and cutting edge coverage of both basic and applied developmental issues during infancy. Features contributions by leading international researchers and practitioners in the field that reflect the most current theories and research findings. Includes editor commentary and analysis to synthesize the material and provide further insight. The most comprehensive work available in this dynamic and rapidly growing field. The hardcover version of this book is printed in two volumes. The paperback version offers the content of Volume I and Volume II combined into a single book. Academic Motivation and the Culture of Schooling. Cynthia Hudley, Adele E. Gottfried, 2008-07-30. Decades of research indicate the important connections among academic motivation and achievement, social relationships, and school culture. However, much of this research has been conducted in homogenous American schools serving middle class average achieving Anglo student populations. This edited volume will argue that school culture is a reflection of the society in which the school is embedded and comprises various aspects including individualism, competition, cultural stereotypes, and extrinsically guided values and rewards. They address three specific conceptual questions: How do differences in academic motivation for diverse groups of students change over time? How do students' social cognitions influence their motivational

processes and outcomes in school And what has been done to enhance academic motivation To answer this last question the contributors describe empirically validated intervention programs for improving academic motivation in students from elementary school through college     *The Development of Personality, Self, and Ego in Adolescence* Richard M. Lerner, Laura E. Hess, 1999 First published in 1999 Routledge is an imprint of Taylor Francis an informa company     *Mental Health Promotion in Schools* Raymond J. Waller, 2016-11-10 This second volume in the book series gives clear explanations of some special topics and challenges related to the roles of the school in adolescent mental healthcare such as disability temperament psychological resilience school safety and LGBT issues Each chapter addresses beneficial and detrimental practices that schools and any involved professionals may engage in Key features of this volume include 1 a multidisciplinary approach to mental healthcare provision in school settings 2 a discussion of school based intervention in each chapter and 3 the incorporation of DSM V standards in discussions of diagnostic criteria where applicable This volume serves as a reference work for all educational and mental health professionals teachers administrators psychologists social workers nurses counselors interested in the promotion of mental health and risk management in schools     **Encyclopedia of Mental Health** , 2015-08-26 Encyclopedia of Mental Health Second Edition Four Volume Set tackles the subject of mental health arguably one of the biggest issues facing modern society The book presents a comprehensive overview of the many genetic neurological social and psychological factors that affect mental health also describing the impact of mental health on the individual and society and illustrating the factors that aid positive mental health The book contains 245 peer reviewed articles written by more than 250 expert authors and provides essential material on assessment theories of personality specific disorders therapies forensic issues ethics and cross cultural and sociological aspects Both professionals and libraries will find this timely work indispensable Provides fully up to date descriptions of the neurological social genetic and psychological factors that affect the individual and society Contains more than 240 articles written by domain experts in the field Written in an accessible style using terms that an educated layperson can understand Of interest to public as well as research libraries with coverage of many important topics including marital health divorce couples therapy fathers child custody day care and day care providers extended families and family therapy     **Socioeconomic Status, Parenting, and Child Development** Marc H. Bornstein, Robert H. Bradley, 2014-04-04 Socioeconomic Status Parenting and Child Development presents cutting edge thinking and research on linkages among socioeconomic status parenting and child development The contributors represent an array of different disciplines and approach the issues from a variety of perspectives Accordingly their take on how SES matters in the lives of children varies This volume is divided into two parts Part I concerns the constructs and measurement of SES and Part II discusses the functions and effects of SES Each part presents four substantive chapters on the topic followed by an interpretive and constructively critical commentary The chapters considered as a whole attest to the value of systematically examining the components of SES and how each flows



through an array of specific parenting practices and resources both within and outside the home environment to help shape the course of child development The result is a more fully delineated picture of how SES impacts the lives of children in the 21st century a picture that contains a road map for the next generation of studies of SES and its role in the rapidly evolving ecology of family life     *The ^AOxford Handbook of the Five Factor Model* Thomas A. Widiger,2017-03-27 There is a vast body of research supporting the Five Factor Model as the predominant model of general personality structure within the field of social psychology The Oxford Handbook of the Five Factor Model is dedicated to this model of research     **Integrative Perspectives on The Person-Context Interplay Through The Lens of Temperament** Hedwig Teglassi,Samuel P. Putnam,Mirjana Majdandzic,2023-03-31

## Whispering the Secrets of Language: An Emotional Journey through **Temperament Infancy Through Adolescence**

In a digitally-driven earth wherever screens reign supreme and instant transmission drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within phrases frequently move unheard. However, set within the pages of **Temperament Infancy Through Adolescence** a fascinating literary treasure pulsating with fresh emotions, lies an exceptional journey waiting to be undertaken. Published by a talented wordsmith, this marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the muscles cloth of every word. Within the psychological depths with this emotional review, we will embark upon a honest exploration of the book's primary themes, dissect its captivating publishing style, and yield to the powerful resonance it evokes serious within the recesses of readers' hearts.

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