The Cambridge Encyclopedia of Child Development

SECOND EDITION

The Cambridge Encyclopedia of Child Development remains the most authoritative and accessible account of all aspects of child development. Written by an international team of experts, its comprehensive coverage includes everything from prenatal development to adolescence, pediatrics, theories and research methods, physical development, social and emotional development, perceptual and cognitive development, language development, psychopathology, and parenting. The second edition has also been thoroughly updated to reflect major developments over the last decade in areas such as neuroscientific methods, developmental cognitive and social neuroscience, the effects of environmental influences on gene expression, and the relationship between human development and evolution. Throughout 124 entries, the Encyclopedia advocates an integrated, interdisciplinary approach to the study of child development. With clear, jargon-free style and user-friendly format, this is the essential reference for researchers and students of child development, as well as healthcare professionals, social workers, educators, and anyone interested in the well-being of children.

Features include:

★ Foreword by Charles Nelson
★ Comprehensive coverage
★ Cross-references between entries
★ Clear, user-friendly format
★ New section on future directions of research in child development

Brian Hopkins is Emeritus Professor of Psychology at Lancaster University.

Elena Geangu is a Lecturer in Psychology at Lancaster University.

Sally Linkenauger is a Lecturer in Psychology at Lancaster University.
The Cambridge Encyclopedia of CHILD DEVELOPMENT

Edited by BRIAN HOPKINS
Lancaster University

ELENA GEANGU
Lancaster University

SALLY LINKENAUGER
Lancaster University
In memory of Jerome S. Bruner (1905–2016) and Anthony J. DeCasper (1940–2016)
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CONTRIBUTORS

Amina Abubakar, Department of Psychology, Lancaster University
Clare S. Allely, Department of Psychology and Public Health, University of Salford
Melissa L. Allen, Department of Psychology, Lancaster University
Glen P. Aylward, Department of Pediatrics, Southern Illinois University
Ben Ambridge, Institute of Psychology, University of Liverpool
David Anderson, Marian Wright Edelman Institute, San Francisco State University
Mark Andrews, Department of Psychology, Nottingham Trent University
Reut Avinun, Department of Psychology, The Hebrew University of Jerusalem
Nadia Badawi, Cerebral Palsy Alliance Research Institute, Sydney Medical School, University of Sydney; and Grace Centre for Newborn Care, The Children's Hospital Westmead
Dieter Baeyens, Parenting and Special Education Research Unit, Leuven University
Thom Baguley, Department of Psychology, Nottingham Trent University
Gareth Ball, Centre for the Developing Brain, St Thomas' Hospital
Marianne Barbu-Roth, Laboratoire Psychologie de la Perception, Université Paris Descartes
Kim A. Bard, Department of Psychology, University of Portsmouth
Lara Bardi, Department of Psychology, Oxford Brookes University
Anna L. Barnett, Department of Psychology, Oxford Brookes University
Ellyn Bass, Department of Psychology, University of Nebraska at Omaha
Nicole Baumer, Developmental Medicine Center, Boston Children's Hospital
Adriene M. Beltz, Department of Psychology, University of Michigan
Michael Blair Evans, School of Kinesiology and Health Studies, Queen's University
Barry Bogin, School of Sport, Exercise & Health Sciences, Loughborough University
Johan J. Bolhuis, Departments of Psychology and Biology, Utrecht University
Silke Brandt, Department of Linguistics and English Language, Lancaster University
Annie Brookman-Byrne, School of Psychology, Birkbeck College
Andrew J. Bremner, Department of Psychology, Goldsmiths College
Timothy R. Brick, Human Development and Family Studies, Pennsylvania State University
Birit F. P. Broekman, Department of Psychiatry, VU University Medical Center, Amsterdam
Rechele Brooks, Department of Psychiatry & Behavioral Sciences, University of Washington
Joseph A. Buckhalt, College of Education, Auburn University
Marine Buon, EPSYLON Laboratory, Paul Valery Montpellier 3 University
Jacob A. Burack, Department of Educational and Counselling Psychology, McGill University
Erika Burman, Manchester Institute of Education, School of Environment, Education and Development, University of Manchester
Catherine A. Burrows, Department of Psychology, University of Miami
Joseph J. Campos, Department of Psychology, University of California, Berkeley
Malinda Carpenter, School of Psychology and Neuroscience, University of St Andrews
Carol L. Cheatham, Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill
Hélène Cochet, Department of Psychology, University of Toulouse, CLLE - LTC, CNRS
Patricia R. Cohen, New York State Psychiatric Institute & School of Public Health, Columbia University
xii Contributors

Daniel F. Connor, Department of Psychiatry, University of Connecticut School of Medicine
Hannah Cooper, UCL Great Ormond Street Institute of Child Health, University College London
Jean Côté School of Kinesiology and Health Studies, Queen's University
Serena J. Counsell, Centre for the Developing Brain, St Thomas' Hospital
J. Helen Cross, Neurosciences Unit, The Wolfson Centre, University College London
Moritz M. Daum, Department of Psychology, Universität Zürich
Robert Aye Imanol Davies, Department of Psychology, Lancaster University
Barbara L. Davis, Department of Communication Sciences and Disorders, University of Texas at Austin
Jason A. DeCaro, Department of Anthropology, University of Alabama
Gregory J. DeGirolamo, Department of Psychology, University of Nebraska-Lincoln
Kathryn A. Degnan, Department of Psychology, Catholic University of America
Jonathan Delafield-Butt, Faculty of Social Sciences, University of Strathclyde
Rory T. Devine, Centre for Family Research, University of Cambridge
Carolina de Weerth, Developmental Psychology, Radboud University Nijmegen
Leonidas A. A. Doumas, Department of Psychology, University of Edinburgh
Naomi N. Duke, Department of Pediatrics, University of Minnesota
Karine Durand, Centre des Sciences du Goût et de l'Alimentation, CNRS and Université de Bourgogne
Sarah Durston, Department of Psychiatry, University Medical Center Utrecht
A. David Edwards, Department of Perinatal Imaging and Health, King's College
Albert J. Erives, Department of Biology, University of Iowa
Yana Fandakova, Center for Mind and Brain and Department of Psychology, University of California, Davis
John M. Franchak, Department of Psychology, University of California, Riverside
Anne Gallagher, Department of Psychiatry, Clinical Science Institute, NUI Galway
Paul van Geert, Department of Developmental Psychology, University of Groningen
Lee T. Gettler, Department of Anthropology, University of Notre Dame
Simona Ghetti, Center for Mind and Brain and Department of Psychology, University of California, Davis
Frances Page Glascoe, Department of Pediatrics, Vanderbilt University School of Medicine
Anna Gonsiorowski, Psychology Department, Georgia State University
Ayala Gorodzinsky, Centre for Pediatric Pain Research, IWK Health Centre
Thomas W. Gould, Department of Physiology and Cell Biology, University of Nevada
Gustav Gredebäck, Department of Psychology, Uppsala University
Kevin J. Grimm, Department of Psychology, Arizona State University
Brian Hallahan, Department of Psychiatry, Clinical Science Institute, NUI Galway
Lorna F. Halliday, Division of Psychology and Language Sciences, University College London
Lorna G. Hamilton, School of Psychological and Social Sciences, York St John University
Sarah Hamilton, St Mary's Hospital, Manchester
Alexander Heazzel, St Mary's Hospital, Manchester
Heather A. Henderson, Department of Psychology, University of Waterloo
Mikolaj Hernik, Department of Cognitive Science, Central European University
Brett T. Himmler, Department of Neuroscience, University of Minnesota
Annemarie H. Hindman, Psychological, Organizational, & Leadership Studies, Temple University College of Education
Hollie Hix-Small, Graduate School of Education, Portland State University
Kerry A. Hoffman, Center for Literacy Education and Research, Purdue University
Claes von Hofsten, Department of Psychology, Uppsala University
Jerry A. Hogan, Department of Psychology, University of Toronto
Tony Holland, Department of Psychiatry, University of Cambridge
Brian Hopkins, Department of Psychology, Lancaster University
Mariëtte Huizinga, Faculty of Behavioral and Movement Sciences, VU University Amsterdam
Lisa N. Jeffries, School of Applied Psychology, Griffith University
Jody L. Jensen, Department of Kinesiology & Health, University of Texas at Austin
Samantha Johnson, Department of Health Sciences, University of Leicester
Alice P. Jones Bartoli, Department of Psychology, Goldsmiths, University of London
Emily J.H. Jones, Centre for Brain & Cognitive Development, Birkbeck College
Roi Cohen Kadosh, Department of Experimental Psychology, University of Oxford
Contributors

Jenni Karl, Department of Psychology, Thompson Rivers University

Petra Karlsson, Cerebral Palsy Alliance Research Institute, Sydney Medical School, Discipline of Child and Adolescent Health, University of Sydney

Nenagh Kemp, Division of Psychology, University of Tasmania

Kathryn A. Kerns, Department of Psychological Sciences, Kent State University

Ariel Knafo-Noam, Department of Psychology, The Hebrew University of Jerusalem

Oriane Landry, School of Psychology and Public Health, La Trobe University

Michael Lewis, Institute for the Study of Child Development, Rutgers Robert Wood Johnson Medical School

Kerrie Lewis Graham, Department of Anthropology, Texas State University

Sarah Lloyd-Fox, Centre for Brain and Cognitive Development, Birbeck College

Gigi Luk, Harvard Graduate School of Education

Jill MacLaren Chorney, Centre for Pediatric Pain Research, IWK Health Centre

Dario Maestripieri, Evolutionary Biology, and Neurobiology, University of Chicago

Denis Mareschal, School of Psychology, Birkbeck College

John J. McArdle, Department of Psychology, University of Southern California

James J. McKenna, Department of Anthropology, University of Notre Dame

Elizabeth Meins, Department of Psychology, University of York

Edward C. Melhuish, Institute for the Study of Children, Families and Social Issues, Birbeck College; and Department of Education, University of Oxford

William Mellick, TIMES University of Houston

Lucie Ménard, Département de Linguistique, Université du Québec à Montréal

Valerie Mendez-Gallardo, Department of Psychology, Pennsylvania State University

Vinicio Menon, Stanford Cognitive and Systems Neuroscience Laboratory, Stanford School of Medicine

George F. Michel, Department of Psychology, University of North Carolina at Greensboro

Padraic Monaghan, Department of Psychology, Lancaster University

Anita Montagna, Department of Perinatal Imaging and Health, King’s College London

Mark A. Mon-Williams, School of Psychology, University of Leeds

Jeylan T. Mortimer, Department of Sociology, University of Minnesota

Mahsa Movahed Abtahi, Department of Psychological Sciences, Kent State University

Jana Muenssinger, MEG Center, Erberhard Karls Universität Tübingen

Lyndsay M. Murray, College of Medicine & Veterinary Medicine, University of Edinburgh

Emese Nagy, School of Psychology, University of Dundee

Marko Nardini, Department of Psychology, Durham University

Janni Niclasen, Department of Psychology, University of Copenhagen

Chiara Nosarti, Department of Perinatal Imaging and Health, King’s College London

Iona Novak, Cerebral Palsy Alliance Research Institute, Sydney Medical School, Discipline of Child and Adolescent Health, University of Sydney

Bob Oranje, Department of Psychiatry, University Medical Center Utrecht

Caroline Ouwehand, Faculty of Behavioral and Movement Sciences, VU University Amsterdam

Martin J. Packer, Departamento de Psicologia, Universidad de los Andes (Colombia)

Eino Partanen, Institute of Behavioural Sciences, University of Helsinki

Jennifer Z. Paxton, College of Medicine & Veterinary Medicine, University of Edinburgh

Jennifer H. Pfeifer, Department of Psychology, University of Oregon

Daniela Plesa Skwerer, Department of Psychology, Center for Autism Research Excellence – CARE, Boston University

Hubert Preissl, Erberhard Karls Universität Tübingen

John J. Prindle, Center for Lifespan Development, Max Planck Institute for Human Development

Ermanno Quadrelli, Dipartimento di Psicologia, Università di Milano-Bicocca

Hannes Rakoczy, Department of Developmental Psychology, Georg-Elias-Müller Institute of Psychology, University of Göttingen

Veronica Ramenzoni, Laboratorio de Neurociencias, Universidad DiTella

Jessie Ricketts, Department of Psychology, Royal Holloway, University of London

Jason Ringo, Department of Educational and Counselling Psychology, McGill University

Scott R. Robinson, Pacific Ethologcal Laboratories, Olympia

Karen R. Rosenberg, Department of Anthropology, University of Delaware

M. Rosario Rueda, Department of Experimental Psychology, University of Granada

Irati R. Saez De Urabain, Department of Psychological Sciences, Birkbeck College
Contributors

Christina Salmivalli, Division of Psychology, University of Turku
Jonathan B. Santo, Department of Psychology, University of Nebraska at Omaha
Benoist Schaal, Centre des Sciences du Goût et de l'alimentation, CNRS and Université de Bourgogne
Anne R. Schutte, Department of Psychology, University of Nebraska-Lincoln
Claudia Seymour, Department of Development Studies, School of Oriental and African Studies
Rubeena Shamsudheen, Department of Cognitive Science, Central European University
Carla Sharp, TIMES University of Houston
Kelly W. Sheppard, Department of Psychology and Neuroscience, University of North Carolina at Chapel Hill
Adam Sheya, Department of Psychological Sciences, University of Connecticut
Linda B. Smith, Department of Psychological & Brain Sciences, Indiana University
Tim J. Smith, Department of Psychological Sciences, Birkbeck College
Trevor Spratt, Children's Research Centre, Trinity College Dublin
Ian St James-Roberts, UCL Institute of Education, University College London
David S. Stein, New England Neurodevelopment, LLC
Margarita Svetlova, Department of Psychology and Neuroscience, Duke University
Emma Sumner, Institute of Education, University College London
Moriah E. Thomason, Merrill Palmer Skillman Institute, Wayne State University
Przemyslaw Tomalski, Faculty of Psychology, University of Warsaw
Colwyn Trevarthen, Department of Psychology, University of Edinburgh
Chiara Turati, Dipartimento di Psicologia, Università di Milano-Bicocca
Andrea Urqueta Alfaro, Envision Research Institute

Lauren V. Usher, Waisman Center, University of Wisconsin-Madison
Fons van de Vijver, Department of Culture Studies, Tilburg University
Paula Virtala, Institute of Behavioural Sciences, University of Helsinki
Alexander von Eye, Department of Psychology, Michigan State University
Karen Walker, Cerebral Palsy Alliance Research Institute, Sydney Medical School, Discipline of Child and Adolescent Health, University of Sydney; and Grace Centre for Newborn Care, The Children’s Hospital Westmead
Lynne A. Werner, Department of Speech and Hearing Sciences, University of Washington
Gert Westermann, Department of Psychology, Lancaster University
Joyce Whittington, Department of Psychiatry, University of Cambridge
Wolfgang Wiedermann, Department of Educational, School, and Counseling Psychology, University of Missouri
Lara M. Wierenga, Department of Psychiatry, University Medical Center Utrecht
Rebecca A. Williamson, Psychology Department, Georgia State University
Kate Wilmut, Department of Psychology, Oxford Brookes University
Dieter Wolke, Department of Psychology and Division of Mental Health and Wellbeing, University of Warwick
Chung Yen Looi, Department of Experimental Psychology, University of Oxford
Henry H. Yoon, Department of Psychology, Augsburg College
Henrik Dace Zachrisson, Norwegian Center for Child Behavioral Development
Patrick de Zeeuw, Department of Developmental Psychology, Utrecht University
Michael Lee Zwiers, Educational Psychology, University of Calgary
Welcome to the second edition of The Cambridge Encyclopedia of Child Development. Why, you might ask, a second edition? To begin with, the study of child development has increasingly assimilated and accommodated a neuroscientific frame of reference as a consequence of an expanding suite of sophisticated brain-imaging (and genome-mapping) techniques since 2005. In turn, this inseparable theory–method partnership has opened new insights into our understanding of a range of developmental disorders. Then advances in evolutionary developmental biology led to a noticeable deepening of the long-neglected nexus between evolution and development. These, and other trends (e.g., with regard to statistical analyses suitable for [longitudinal] developmental research) in the last decade or so, have been embedded in interdisciplinary research endeavors, with a seemingly growing involvement of developmental psychologists; endeavors that are far from easy to achieve in practice.

In order to entertain these increments and additions to the study of child development, this new edition has been updated and expanded accordingly. It encompasses 124 entries by leading international researchers, while achieving a better geographical balance of contributors than the first edition, which had 90 entries. What is new is the provision of speculations and questions about future directions of research on the development of children. Once again, though, the book is intended to appeal to a broad audience ranging from students to researchers to practitioners. Each entry can be treated as a self-contained entity, but aided and abetted by extensive cross-references among them. Functioning as a source of reference, the contents of the book are to some degree a reflection of the editors’ research interests. Moreover, as with the first edition, its age-related scope does not venture beyond the period of adolescence. Both content and scope are dictated by the limitations of space. Despite these unavoidable constraints, we have striven to be as comprehensive as possible. A glossary of terms is in preparation and will be published separately from the book on the internet.

With the appearance of the second edition, it is perhaps prudent and timely to take stock of the sorts of dominant influences mentioned that have introduced new perceived problems that need to be addressed. Restricting ourselves to neuroscience, then, which continues to change dramatically the landscape of research on child development, some unhelpful claims have overemphasized its impact in producing new knowledge about psychological development and brain–behavior relationships. These claims have been latched onto by sections of the popular press who then peddle it with oversimplistic media hype, which boils down to ‘discovering’ that the brain is involved in producing new knowledge about psychological development, and its proponents do appear to have moderated some of its more hyperbolic statements that have appeared on occasion in the past (e.g., see comments by Elkund, Nichols, & Knutson, 2016).

There is a fear, however, that psychology will be eviscerated by neuroscience. This fear is very unlikely to be realized because neuroscience theory can only progress with reference to functions as expressed in unalloyed observable behavior. More of a problem is that the import of neuroscience’s armoury of imaging and mapping techniques could give rise to a naïve form of reductionism, and thus eye-catching headlines, that would serve to feed a media circus with all its inherent dangers (e.g., building up false hopes of a cure for disorder X).

There is a more worrying side to neuroscience for developmentalists whose research does not encompass brain imaging. This is that research funding is more problematic for those devoted to the study of behavioral development without the aid of one or more of the neuroscientific techniques. Most noticeable in the USA, it stems from a change in National Institute of Mental Health (NIMH) policy round about 2010 aimed at improving diagnostic criteria for mental illnesses. At root, the policy change has meant that psychologists need to seek out
more molecular foundations for behavior, including, for example, not only the outcomes of brain- and genome-mapping but also hormonal associations as a means of gaining improvements in diagnostic criteria. It proved to be a pervasive policy change that filtered through to affect the course of funding for developmental research awarded by both NIMH and the National Science Foundation. Expressed crudely: no brain-imaging = no funding.

In this book, you will find neuroscientific research and methods widely covered and written in an accessible style. You will also find a substantial number of entries that do not subscribe to this genre of research. Both approaches are needed for a decidedly thoroughgoing approach to child development.

A number of colleagues deserve our gratitude in helping us to bring the book to fruition. For a start, there are some 20 reviewers whose comments were of great help in improving the quality of individual contributions. Their help has been acknowledged on a separate page. In particular, three people were a ready source of advice and encouragement from the beginning. Thanks then to Albert Gramsbergen, George Michel, and Ron Oppenheim. Finally, a special debt of gratitude is expressed to the in-house editorial team at Cambridge University Press: Hetty Marx, Rebecca Taylor, Janka Romero, and Emma Collison. We also need to thank Sue Browning, copy editor, and Jenny Slater, production manager, for their outstanding care and attention during the final stages of bringing this book to fruition. The same also applies to another member of the team: Sara Brunton, our proofreader.

Brian Hopkins, Elena Geangu, and Sally Linkenauger
Lancaster, 2016

A companion to the Encyclopedia is the Lancaster Glossary of Child Development that contains definitions and descriptions of more than 1000 terms to be found in the book. It should be pointed out that the glossary is a ‘work in progress’, and readers are encouraged to contact the first editor for any queries and potential contributions.

Brian Hopkins
j.b.hopkins@lancaster.ac.uk
URL for glossary:
https://lgcd.psych.lancs.ac.uk/wiki/projects/73E9N618p

References

The boundaries that define the field of child development are becoming increasingly blurred, as developmental science as a whole becomes progressively more interdisciplinary. Just a few decades ago, for example, neuroscience and molecular biology did not exist; even a decade ago, the field of epigenetics was but a niche field within the broader field of cancer biology. When Carmichael’s *Manual of Child Psychology* first appeared in 1946, it was a single volume; when this was re-issued by Paul Mussen in 1970, it appeared as two volumes. Two decades later, it had doubled to four volumes. Over and above compendia such as the *Handbook of Child Psychology*, there has also been a proliferation of scientific journals over the past decade; for example, where once there was a single *Nature* journal, there are now more than two dozen journals published under the *Nature* banner. In addition, there has also been an explosion of open-access journals. The sheer volume of information now available to students and scholars of child development is overwhelming and our ability to stay abreast of advances in the field is daunting. Even if we limited ourselves to receiving only the table of contents of the journals that comprise the broader discipline of child development, our inboxes would rapidly fill up on a daily basis.

Given the near-impossible feat of staying on top of the latest advances in neuro-, bio-, psycho-, social-development, the field desperately needs a resource that is accessibly and succinctly written. Such a resource would be invaluable not only for helping us become conversant in the many ‘languages’ of child development and in preparing lectures for students, but would also provide a roadmap as to where the field is heading. Fortunately, such a resource exists with the 2nd edition of *The Cambridge Encyclopedia of Child Development*. Hopkins, Geangu, and Linkenauger have done the field a huge service by compiling a volume that is divided into 11 topical areas, and contains more than 100 entries. The entries are short and to the point, yet provide all the highlights necessary to understand the state of the field in each sub-discipline; they do a very good job of capturing the essence of each topic. The book begins with a series of entries focused on developmental theory and concludes with a section on where the field is headed; in between are individual contributions that focus on specific content areas, some by their very nature being rather narrow (e.g., fetal and neonatal magnetoencephalography), and others much broader (e.g., reading and writing). The encyclopedia as a whole should serve as an invaluable resource for beginning students and other interested parties wishing to grasp the richness of the field as well as advanced scholars who wish to update their knowledge of areas beyond their own field of expertise.

Charles A. Nelson III
Harvard University
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DORRET BOOMSMA (Department of Biological Psychology, Vrije Universiteit)
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SHIRLEY CHEUNG (Department of Psychology, Lancaster University)
ALAN COLLINS (Department of Psychology, Lancaster University)
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GLEN ELDER (Carolina Population Center, University of North Carolina at Chapel Hill)
ALBERT GRAMSBERGEN (Department of Developmental Neurology, Universitair Medisch Centrum Groningen (UMCG))
RON GRAY (National Perinatal Epidemiology Unit, University of Oxford)
BRIAN HALLAHAN (Department of Psychiatry, Clinical Science Institute)

BILL HARRIS (Department of Anatomy, University of Cambridge)
RAY KENT (Waisman Center, University of Wisconsin)
DINA LEW (Department of Psychology, Lancaster University)
DENIS MARESCHAL (Centre for Brain and Cognitive Development, School of Psychology, Birkbeck College)
GEORGE F. MICHEL (Department of Psychology, University of North Carolina at Greensboro)
RON OPPENHEIM (Department of Neurobiology and Anatomy, Bowman Gray Medical School, Wake Forest University)
SIMON PARSON (Department of Anatomy, University of Aberdeen)
LORI E. SKIBBE (Family & Child Ecology, Michigan State University)
MORIAH THOMASON (Merrill Palmer Skillman Institute, Wayne State University)
KAI UUS (School of Psychological Sciences, Faculty of Medical & Human Sciences, University of Manchester)