### Psychological Sciences & Social Sciences Series

**The Journals of Gerontology: Psychological Sciences**

**Vol. 70B, No. 5, September 2015**

**Contents**

**JOURNAL OF GERONTOLOGY: PSYCHOLOGICAL SCIENCES**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>673</td>
<td>Sleep Architecture and Mental Health Among Community-Dwelling Older Men</td>
<td>Stephen F. Smagula, Charles F. Reynolds III, Elizabeth Barrett-Connor, Thuy-Tien Dam, Ian M. Hughes-Austin, Mir Tousfiz, Susan Redline, Katie L. Stone and Jane A. Cauley</td>
</tr>
<tr>
<td>682</td>
<td>Age-Related Deficits in Visuospatial Memory Are due to Changes in Preparatory Set and Eye-Hand Coordination</td>
<td>Melanie Rose Banke, Charlotte Poyser and Ingo Schiessl</td>
</tr>
<tr>
<td>691</td>
<td>Personality Accounts for the Connection Between Volunteering and Health</td>
<td>Hannah B. Kang, Joshua J. Jackson, Nancy Morrow-Howell and Thomas T. O'Herness</td>
</tr>
<tr>
<td>698</td>
<td>Normal Aging of the Attentional Control Functions That Underlie Working Memory</td>
<td>Stéphanie Sybain-Ray, Ondu Sampaio and Sylvie Belleville</td>
</tr>
<tr>
<td>709</td>
<td>Sex Differences in Genetic and Environmental Influences on Longitudinal Change in Functional Ability in Late Adulthood</td>
<td>Deborah Finkel, Marie Ernsth-Bravell and Nancy L. Pedersen</td>
</tr>
<tr>
<td>718</td>
<td>An Age-Related Dissociation of Short-Term Memory for Facial Identity and Facial Emotional Expression</td>
<td>Alan A. Hartley, Zoe Barich, Sarah Stringer and Katherine Witty</td>
</tr>
</tbody>
</table>

**JOURNAL OF GERONTOLOGY: SOCIAL SCIENCES**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>745</td>
<td>Disability Trajectories at the End of Life: A “Countdown” Model</td>
<td>Douglas A. Wolf, Vicki A. Freedman, Jan I. Ondrich, Christopher L. Sepulvaksi and Brenda C. Spillman</td>
</tr>
<tr>
<td>753</td>
<td>Commentary on “Disability Trajectories at the End of Life: A Countdown Model” The Problems With Time-to-Death as a Predictor of Disability</td>
<td>Scott M. Lynch</td>
</tr>
<tr>
<td>757</td>
<td>Reply</td>
<td>Douglas A. Wolf, Vicki A. Freedman, Jan I. Ondrich, Christopher L. Sepulvaksi and Brenda C. Spillman</td>
</tr>
<tr>
<td>759</td>
<td>Cross-National Differences in Disability Among Elders: Transitions in Disability in Mexico and the United States</td>
<td>Kerstin Garst-Emerson, Rebecca Wang, Alejandro Michaels-Oregen and Alberto Palloni</td>
</tr>
<tr>
<td>769</td>
<td>Social Relationships, Gender, and Recovery From Mobility Limitation Among Older Americans</td>
<td>Katherine Latham, Philippe J. Clarke and Greg Flores</td>
</tr>
</tbody>
</table>

**Grandparenthood: Implications for Health and Well-Being**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>792</td>
<td>Grandparenthood and Subjective Well-Being: Moderating Effects of Educational Level</td>
<td>Katharina Mabes and Oliver Huishold</td>
</tr>
<tr>
<td>793</td>
<td>Race/Ethnic Differentials in the Health Consequences of Caring for Grandchildren for Grandparents</td>
<td>FeiTan Chen, Christina A. Marie, Launnaree Bai and Tang Ching Yang</td>
</tr>
<tr>
<td>804</td>
<td>Social Support and Grandparent Caregiver Health: One-Year Longitudinal Findings for Grandparents Raising Their Grandchildren</td>
<td>Bert Hayop Jr., Rekemore Blumenfeld and Ashley Garner</td>
</tr>
</tbody>
</table>
Subscriptions
A subscription to the *Journals of Gerontology Series B: Psychological and Social Sciences* comprises 6 issues. Prices include postage; for subscribers outside the Americas, issues are sent air freight. Airmail rates are available on request. Advance Access contains papers that have recently been accepted but have not yet been included within an issue. Advance Access is updated daily.

Annual Subscription Rate (Volume 70, 6 issues, 2015)

**Institutional**
Print edition and site-wide online access: GB£335/US$504/EU€504
Print edition only: GB£309/US$464/EU€464
Site-wide online access only: GB£269/US$403/EU€403

Please note: UK£ rate applies to UK and Rest of World, except US and Canada ($) and Europe (€). Payment for orders to be delivered within Europe should be made in euros.

There are other subscription rates available; for a complete listing, please visit www.geronb.oxfordjournals.org/subscriptions.

Full prepayment in the correct currency is required for all orders. Payment should be in US dollars for orders being delivered to the USA or Canada; Euros for orders being delivered within Europe (excluding the UK); GBP sterling for orders being delivered elsewhere (i.e. not being delivered to USA, Canada, or Europe). All orders should be accompanied by full payment and sent to your nearest Oxford Journals office. Subscriptions are accepted for complete volumes only. Orders are regarded as firm, and payments are not refundable. Our prices include Standard Air as postage outside of the UK. Claims must be notified within four months of dispatch/order date (whichever is later). Subscriptions in the EEC may be subject to European VAT. If registered, please supply details to avoid unnecessary charges. For subscriptions that include online versions, a proportion of the subscription price may be subject to VAT. Subscribers in Canada, please add GST to the prices quoted. Personal rate subscriptions are only available if payment is made by personal check or credit card, delivery is to a private address, and is for personal use only.

The current year and two previous years’ issues are available from Oxford Journals. Previous volumes can be obtained from the Periodicals Service Company at http://www.periodicals.com/oxford.html or Periodicals Service Company, 11 Main Street, Germantown, NY 12526, USA. E-mail: psc@periodicals.com. E-mail: psc@periodicals.com. Tel: (518) 537-4700. Fax: (518) 537-5899.

**Contact information**
Journals Customer Service Department, Oxford University Press, Great Clarendon Street, Oxford OX2 6DP, UK. E-mail: jnlcust.serv@oup.com. Tel: +44 (0)1865 353907. Fax: + 44 (0)1865 353485. **In the Americas, please contact:** Journals Customer Service Department, Oxford University Press, 2001 Evans Road, Cary, NC 27513, USA. E-mail: jnlorders@oup.com. Tel: (800) 852-7323 (toll-free in USA/Canada) or (919) 677-0977. Fax: (919) 677-1714.

**In Japan, please contact:** Journals Customer Service Department, Oxford University Press, 4-5-10-8F Shibuya, Minato-ku, Tokyo, 108-8366, Japan. E-mail: custserv.jp@oup.com. Tel: (81) 3 5444 5858. Fax: (81) 3 3452 2929.

**Methods of payment**
Payment should be made by: cheque (to Oxford University Press, Cashiers Office, Great Clarendon Street, Oxford OX2 6DP, UK); by bank transfer [to Barclays Bank Plc, Oxford Office, Oxford (bank sort code 20-65-18) (UK); overseas only Swift code BARC GB22 (GB£ Sterling Account no. 70299332, IBAN GB89BARC20651870299332; US$ Dollars Account no. 66014600, IBAN GB27BARC2065186014600; EURO Account no. 78923655, IBAN GB16BARC2065187923655]; or by credit card (MasterCard, Visa, Switch or American Express). Credit card orders are subject to a $20.00 handling fee.

**Postal information**

**Environmental and ethical policies**
Oxford Journals, a division of Oxford University Press, is committed to working with the global community to bring the highest quality research to the widest possible audience. Oxford Journals will protect the environment by implementing environmentally friendly policies and practices wherever possible. Please see http://www.oxfordjournals.org/ethicalpolicies.html for further information on environmental and ethical policies.

**Digital Object Identifiers**
For information on dois and to resolve them, please visit www.doi.org.

**Permissions**
For information on how to request permissions to reproduce articles or information from this journal, please visit www.oxfordjournals.org/permissions.

**Advertising**
Advertising, inserts, and artwork enquiries should be addressed to Advertising and Special Sales, Oxford Journals, Oxford University Press, Great Clarendon Street, Oxford, OX2 6DP, UK. Tel: +44 (0)1865 354767; Fax: +44 (0)1865 353774; E-mail: jnladvertising@oup.com.

**Disclaimer**
Statements of fact and opinion in the articles in the *Journals of Gerontology Series B: Psychological and Social Sciences* are those of the respective authors and contributors and not of the Gerontological Society of America or Oxford University Press. Neither Oxford University Press nor the Gerontological Society of America make any representation, express or implied, in respect of the accuracy of the material in this journal and cannot accept any legal responsibility or liability for any errors or omissions that may be made. The reader should make her or his own evaluation as to the appropriateness or otherwise of any experimental technique described. The mention of trade names, commercial products or organizations, and the inclusion of advertisements in the journal does not imply endorsement by the *Journals of Gerontology Series B*, the editors, the editorial board, The Gerontological Society of America or Oxford University Press.

Copyright © Gerontological Society of America 2015
All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without prior written permission of the publisher or a license permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

**Indexing**
The journal is indexed in Current Contents, Science Citation Index, Social Science Citation Index, Medline, PubMed, Index Medicus, and PsycINFO.

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without prior written permission of the publisher or a license permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9HE.

**Instructions for Authors**
Full instructions for manuscript preparation and submission can be found at http://www.oxfordjournals.org/our_journals/geronb/for_authors/.

Oxford University Press is a department of the University of Oxford. It furthers the University’s objective of excellence in research, scholarship, and education by publishing worldwide.
Journal of Gerontology: PSYCHOLOGICAL SCIENCES

Journal of Gerontology: Psychological Sciences (JG: PS) publishes articles on development in adulthood and old age that advance the psychological science of aging processes and outcomes. Articles in JG: PS have clear implications for theoretical or methodological innovation in the psychology of aging or contribute significantly to the empirical understanding of psychological processes and aging. Areas of interest include, but are not limited to, attitudes, clinical applications, cognition, education, emotion, health, human factors, interpersonal relations, neuropsychology, perception, personality, physiological psychology, social psychology, and sensation. Applied research with theoretical significance is welcome. Manuscripts reporting work that relates behavioral aging to neighboring disciplines are also appropriate. The Journal publishes four types of articles: (a) reports of original research, (b) brief reports of original research, and (c) New Directions in Aging Research—reviews of cutting-edge topics with theoretical or methodological implications. See word and page limitations below. All submissions are peer-reviewed, with final decisions made by the Editor.

Bob G. Knight, PhD, Editor-in-Chief
Professor of Psychology and Counseling
University of Southern Queensland
E-mail: geronpsych@geron.org

Shevaun Neupert, PhD, Associate Editor
North Carolina State University
Nicole Anderson, PhD, Associate Editor
Rotman Research Institute, Baycrest

EDITORIAL BOARD
Joseph E. Gaugler, PhD
University of Minnesota
Dennis Gerstorf, PhD
Humboldt University Berlin
Paulo Giacchetta, PhD
University of Geneva
Judith Glück, PhD
Alpen-Adria-Universität Klagenfurt
William H. Haley, PhD
University of South Florida
Thomas M. Hess, PhD
North Carolina State University
Scott Hofer, PhD
University of Victoria
Karen Hooker, PhD
Oregon State University
Derek M. Isaacowitz, PhD
Northeastern University
Susan Kemper, PhD
University of Kansas
Elizabeth A. Kensinger, PhD
Boston College
Margie L. Lachman, PhD
Brandeis University
Becca R. Levy, PhD
Yale University
Andres Losada, PhD
Universidad Rey Juan Carlos
Lynn Martire, PhD
The Pennsylvania State University
Mara Mather, PhD
University of Southern California
Jian Zhao, PhD
University of Kansas Medical Center
Dan Mroczek, PhD
Purdue University
Elizabeth A. A. Maylor, PhD
University of Warwick

PUBLICATIONS COMMITTEE
Peter Lichtenberg, Chair
Wayne State University
Luigi Ferrucci, Past-Chair
National Institute on Aging

Shoshana H. Bardach
Lexington Veterans Affairs Medical Center
Mercedes E. Bern-Klug
University of Iowa
New York University College of Nursing
Nicholas Castle
University of Pittsburgh
Rafael de Cabo
National Institute on Aging
Shabana H. Bardach
Lexington Veterans Affairs Medical Center
Mercedes E. Bern-Klug
University of Iowa
New York University College of Nursing
Nicholas Castle
University of Pittsburgh
Rafael de Cabo
National Institute on Aging

GSAPUBLICATIONS DEPARTMENT
Adrienne Loggins, Senior Production Editor

PERMISSION TO REPRINT: The Gerontological Society of America has registered its journals with the Academic Permissions Service of the Copyright Clearance Center, Inc. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by The Gerontological Society of America, provided that the appropriate fee is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, Tel: (978) 464-7200. FAX: (978) 750-4470. E-mail: info@copyright.com. Prior to photocopying items for educational classroom use, please contact Copyright Clearance Center. For other information about the journal, please see http://psychsocgerontology.oxfordjournals.org/

INSTRUCTIONS TO AUTHORS: See online at http://www.oxfordjournals.org/our_journals/geronb/for_authors/ or contact psychsocgeron@oup.com. For other information about the journal, please see http://psychsocgerontology.oxfordjournals.org/
The Journals of Gerontology, Series B: Social Sciences publishes articles using a variety of theoretical and methodological approaches encompassing quantitative, qualitative, experimental, and nonexperimental research. Authors are encouraged to submit papers in areas such as anthropology, demography, economics, epidemiology, geography, health services research, political science, public health, social history, social work, and sociology.

Deborah S. Carr, PhD, Editor
Department of Sociology and Institute for Health, Health Care Policy & Aging Research
Rutgers University
112 Paterson Street
New Brunswick, NJ 08901
Email: carrds@rutgers.edu

Kathleen Jackson, Managing Editor
kjackson@geron.org
Amy Contrada, Editorial Assistant
acontrad@geron.org
J. Scott Brown, PhD, Associate Editor
Miami University, Ohio
Feinian Chen, PhD, Associate Editor
University of Maryland
Philippa Clarke, PhD, Associate Editor
University of Michigan

Emily Greenfield, PhD, Associate Editor
Rutgers University
Jessica Kelley-Moore, PhD, Associate Editor
Case Western Reserve University
James M. Raymo, PhD, Associate Editor
University of Wisconsin-Madison
J. Jill Suito, PhD, Associate Editor
Purdue University
Jan Warren-Findlay, PhD, Associate Editor
University of North Carolina, Charlotte

Emily Grundy, PhD
London School of Economics
Jung-Hwa Ha, PhD
Seoul National University
Mark Hayward, PhD
University of Texas at Austin
Pamela Herd, PhD
University of Wisconsin-Madison
Ben L. Kail, PhD
Georgia State University
Candace Kemp, PhD
Georgia State University
Hal Kendig, PhD
Australian National University
Sarah Laditka, PhD
University of North Carolina, Charlotte
Vickie Lamb, PhD
North Carolina Central University
Jersey Liang, PhD
University of Michigan
I-Fen Lin, PhD
Bowling Green State University
Scott M. Lynch
Duke University
Christopher Marcum, PhD
National Institutes of Health
Carlos Mendes de Leon, PhD
University of Michigan
Jennifer Karas Montez, PhD
Syracuse University
Thomas Prohaska, PhD
University of Illinois at Chicago
Ana Roman Quinones, PhD
Oregon Health & Science University

Corinne Rezek, PhD
The Ohio State University
Jean-Marie Robine, PhD
INSERM, Montpellier, France
J. Tina Savla, PhD
Virginia Polytechnic Institute and State University
Benjamin A. Shaw, PhD, MPH
University at Albany, SUNY
Markus Schafer, PhD
University of Toronto
Tetyana Shippée, PhD
University of Minnesota
Marc Szulik, PhD
University of Zurich, Austria
Miles G. Taylor, PhD
Florida State University
Daniel J. Van Dussen PhD
Youngstown State University
Theo G. van Tilburg, PhD
Vrije Universiteit, Amsterdam
Richard D. Wiggins, PhD
University College London - Institute of Education
Sharon W. Williams, PhD
University of North Carolina, Chapel Hill
Janet M. Wilmuth, PhD
Syracuse University
Rebecca Wong, PhD
University of Texas Medical Branch, Galveston
Anna Zajacova, PhD
University of Wyoming
Zachary Zimmer, PhD
University of California, San Francisco

PUBLICATIONS COMMITTEE

Peter Lichtenberg, Chair
Wayne University
Luigi Ferrucci, Past-Chair
National Institute on Aging

Shoshana H. Bardach
Lexington Veterans Affairs
Mercedes E. Bern-Klug
University of Iowa
Abraham Brody
New York University College of Nursing
Nicholas Castle
University of Pittsburgh
Rafael de Cabo
National Institute on Aging

Ahimbola Farinde
Walden University
Judith Howe
Mt. Sinai School of Medicine/
Brons VAGRECC
Robert Hudson
Boston University
Jennifer Kinney
Miami University
Bob Knight
University of Southern California
Stephen Kratchevsky
Wake Forest University

Margie E. Lachman
Brandeis University
Rachel Pruchno
Rowan University
Hiroshi Saito
University of Kentucky
Gregory Smith
Kent State University
Panayiotis Tsiouras
University of Oklahoma
Gerald P Murphy Cancer Foundation

GSA PUBLICATIONS DEPARTMENT
Adrienne Loggins, Senior Production Editor

PERMISSION TO REPRINT: The Gerontological Society of America has registered its journals with the Academic Permissions Service of the Copyright Clearance Center. Authorization to photocopy items for internal or personal use, or the internal or personal use of specific clients, is granted by The Gerontological Society of America, provided that the appropriate fee is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. Tel: (978) 646-2700. FAX: (978) 750-4470. E-mail: info@copyright.com. Prior to photocopying items for educational classroom use, please contact Copyright Clearance Center, Inc. For further information check CCC Online at the following address: http://www.copyright.com

INSTRUCTIONS TO AUTHORS: See these online at http://www.oxfordjournals.org/our_journals/geront/for_authors/ or contact psychsocgeron@oup.com. For other information about the journal, please see http://psychsocgerontology.oxfordjournals.org/