

Volume 53 Number 1 April 2023



ISSN: 0025-1003

Journal of the International Phonetic Association



CAMBRIDGE
UNIVERSITY PRESS



Journal of the International Phonetic Association
cambridge.org/ipa

Editor

MARIJA TABAIN
La Trobe University, Australia

Co-editor

JODY KREIMAN
UCLA, USA

Editorial Office

jipa.editorial@internationalphoneticassociation.org

Editorial Assistant

ADELE GREGORY

Audio Manager for Illustrations

ANDRE RADTKE

Copy-editor

EWA JAWORSKA

Associate Editors

MARC GARELLEK
University of California, San Diego, USA

MATTHEW GORDON
University of California, Santa Barbara, USA

ALEXEI KOCHETOV
University of Toronto, Canada

OLIVER NIEBUHR
University of Southern Denmark, Denmark

PATRYCJA STRYCHARCZUK
The University of Manchester, UK

MARZENA ŻYGIŚ
Leibniz-Zentrum Allgemeine Sprachwissenschaft
(ZAS) & Humboldt Universität, Berlin, Germany

Editorial Board

AMALIA ARVANITI, University of Kent, UK
MOLLY BABEL, The University of British Columbia,
Canada
TESSA BENT, Indiana University, USA
STEFAN BENUS, University of Constantinus the
Philosopher in Nitra, Slovakia
SONYA BIRD, University of Victoria, Canada
SASHA CALHOUN, Victoria University of Wellington,
New Zealand
AOJU CHEN, Utrecht University, The Netherlands
YIYA CHEN, Leiden University, The Netherlands
JANET FLETCHER, University of Melbourne, Australia
SÓNIA FROTA, University of Lisbon, Portugal
SUSANNE FUCHS, Leibniz-Zentrum Allgemeine
Sprachwissenschaft (ZAS), Germany
CARLOS GUSSENHOVEN, Radboud Universiteit, The Netherlands
JOHN HAJEK, The University of Melbourne, Australia
RACHAEL-ANNE KNIGHT, City University London, UK

ALEXEI KOCHETOV, University of Toronto, Canada
JELENA KRIVOKAPIC, University of Michigan, USA
WAI SUM LEE, City University of Hong Kong, China
KIKUO MAEKAWA, The National Institute for Japanese
Language and Linguistics, Japan
ALEXIS MICHAUD, CNRS-Lacito, France and Institut
International de recherche MICA, Vietnam
JEFF MIELKE, North Carolina State University, USA
FRANCIS J. NOLAN, University of Cambridge, UK
HOHSIEN PAN, National Chiao Tung University, Taiwan
TAMARA RATHCKE, University of Kent, UK
DANIEL RECASENS, Universitat Autònoma de Barcelona, Spain
BERT REMIJSEN, The University of Edinburgh, UK
RYAN SHOSTED, University of Illinois, USA
ADRIAN SIMPSON, Friedrich-Schiller-Universität Jena, Germany
PAUL WARREN, Victoria University of Wellington, New Zealand
ALAN YU, The University of Chicago, USA
KRISTINE YU, University of Massachusetts Amherst, USA

Journal of the International Phonetic Association is published by Cambridge University Press for the International Phonetic Association. JIPA Instructions for Contributors are available at cambridge.org/ipa.

Subscriptions

Journal of the International Phonetic Association (ISSN 0025-1003) is published three times a year, in April, August and December. Three parts form a volume.

The 2023 subscription price (excluding VAT) of a volume, which includes print and electronic access, is £320.00 (US \$507.00 in USA, Canada and Mexico); £90.00 (US \$152.00) for individuals, which includes print only, ordering direct from the publishers and certifying that the journal is for their personal use. Single parts are £119.00 net (US \$189.00 in USA, Canada and Mexico) plus postage. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered members should provide their VAT registration number. Japanese prices for institutions (including ASP delivery) are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Members of the International Phonetic Association may purchase extra copies of the journal and back numbers at a special rate via the Association.

Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA. Periodicals postage is paid at New York, NY and at additional mailing offices.

Internet access

Journal of the International Phonetic Association and all other Cambridge journals can be found at journals.cambridge.org. This journal issue has been printed on FSC™-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

© International Phonetic Association

Printed and bound by CPI Group (UK) Ltd, Croydon, CR0 4YY