

Volume 50 Number 3 December 2020



ISSN: 0025-1003

# Journal of the International Phonetic Association



**CAMBRIDGE**  
UNIVERSITY PRESS



**Editor**

MARIJA TABAIN  
La Trobe University, Australia  
M.Tabain@latrobe.edu.au

**Co-editor**

JODY KREIMAN  
UCLA, USA  
jkreiman@ucla.edu

**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

MARZENA ŻYGIS  
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 BRD, 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 REMIJSSEN, 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](http://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 2020 subscription price (excluding VAT) of a volume, which includes print and electronic access, is £281.00 (US \$446.00 in USA, Canada and Mexico); £76.00 (US \$127.00) for individuals, which includes print only, ordering direct from the publishers and certifying that the journal is for their personal use. Single parts are £98.00 net (US \$155.00 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](http://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](http://www.fsc.org) for information.

© International Phonetic Association

Printed in the UK by Bell and Bain Limited, Glasgow