

## Editorial

The last few years have witnessed tremendous interest and uptake in open science practices across various research disciplines. Open science practices include various initiatives to improve and sustain transparency in research methods, observation, data collection, data access, communication of findings, and the use of research instruments both within and across various fields of inquiry. Aimed at encouraging research replicability and transparency, common open science practices include the requirements for researchers to share their research instruments and materials as well as to make their data publicly available. Open science initiatives have been promoted by governments, for example, as discussed in the 2011 UK House of Commons report on peer review in scientific publications or the 2013 US House of Representatives Hearing on Scientific Integrity and Transparency. Open science practices are also central to key policies of major foundations and granting agencies, such as the NSF, NIH, DARPA, major professional associations, including the American Psychological Association and the American Educational Research Association, and such non-profit publishing ventures as Public Library of Science (PLOS).

Recognizing the importance of research transparency and data sharing to knowledge-building, *Language Learning* would like to join the open science movement by encouraging authors to engage in open science practices and by rewarding authors for engaging in such practices. In partnership with the non-profit Center for Open Science, we will offer all authors submitting their manuscripts to *Language Learning* access to the following three open science practices – Open Materials, Open Data, and Preregistered Research Plans. We will also award all qualifying authors open science badges recognizing their contributions to the open science movement, and these badges will be prominently displayed on the title page of each qualifying *Language Learning* article. The open science practices and associated award badges, as implemented by the Center for Open Science and supported by *Language Learning*, are the following:



The Open Materials badge recognizes researchers who share their research instruments and materials in a publicly-accessible format, providing sufficient information for researchers to reproduce procedures and analyses of published research studies. Qualifying public, open-access repositories of research instruments and materials include the IRIS digital repository of data collection materials used in second language research (<http://www.iris-database.org>), the Open

Science Framework (<https://osf.io>), as well as various Dataverse networks (e.g., <http://dataverse.org>).



The Open Data badge recognizes researchers who make their data publicly available, providing sufficient description of the data to allow researchers to reproduce research findings of published research studies. Numerous data-sharing repositories are available through the Registry of Research Data Repositories (<http://www.re3data.org>) and through various Dataverse networks (e.g., <http://dataverse.org>).



The Preregistered badge recognizes researchers who preregister their research plans (research design and data analysis plan) prior to engaging in research and who closely follow the preregistered design and data analysis plan in reporting their research findings. The criteria for earning this badge thus include a date-stamped registration of a study plan in such venues as the Open Science Framework (<https://osf.io>) or Clinical Trials (<https://clinicaltrials.gov>) and a close correspondence between the preregistered and the implemented data collection and analysis plans.

The Open Science Framework (<https://osf.io>) qualifies as a public, open access repository which supports all three open science practices described above. This repository can host entire projects, including materials, data, and preregistration protocols.

Applying and qualifying for open science badges is not a requirement for publishing with *Language Learning*, but we consider these badges to be further incentive for authors to participate in the open science movement and thus to increase the visibility and transparency of their research. Interested authors can find information about how to qualify for each badge on the *Language Learning* website, under author guidelines, and in the online submission system at <http://mc.manuscriptcentral.com/langl>. We are grateful to the technical and logistical support from the Center for Open Science for enabling us to implement these open science initiatives at *Language Learning*, and we are proud that *Language Learning* is among the first applied linguistics journals to join the open science movement. We hope that current and future *Language Learning* authors will take advantage of this critical opportunity to demonstrate the quality of research carried out in language sciences.

**Pavel Trofimovich**

Concordia University, Journal Editor

**Nick C. Ellis**

University of Michigan, General Editor