

September 2023 Artificial Intelligence in  
Measurement and Education NCME SIGIMIE  
Meeting

# Outline

- ▶ Overview & Updates
- ▶ Today's Speaker: Andrew Runge, Duolingo
- ▶ Additional SIG Updates & Calls for Participation

# Overview & Updates

Welcome to new members and everyone who has joined today's call!!

## Quick Updates

- ▶ We're official! NCME Board approved and announced to membership; please share with colleagues (signup via NCME Website)
- ▶ We are "Artificial Intelligence in Measurement and Education (AIME)" (not GAIME)
- ▶ Will continue monthly speaker series, invite community to self-nominate to present

# Today's Research Presentation

**Speaker:** Andrew Runge, Senior AI Research Engineer at Duolingo

**Title:** Automated Item Development for Language Assessment:  
Using GPT to create complex reading and listening tasks

## Additional SIG Updates & Calls for Participation

# White Paper Proposal - Call for Participation - The ethical use of AI in educational measurement

We are looking for researchers to contribute to a white paper on the Ethical use of AI in educational measurement. Examples of topics include the following:

- ▶ Accountability when AI is used for measurement
- ▶ Detection and mitigation of algorithmic bias when using AI for measurement
- ▶ Transparency in the use of AI for measurement
- ▶ Toxicity in Generative AI
- ▶ Regulations on the ethical use of AI for measurement

If you are interested, please email Okan Bulut at [bulut@ualberta.ca](mailto:bulut@ualberta.ca).

## ***Using Generative AI in Education: Results from Large-Scale EdTech Platform R&D Abstract***

**Presenters** - Andrew Runge (Senior Research Engineer, Duolingo)  
- Andrew Lan (Assistant Professor, UMASS-Amherst) - Kristen Dicerbo (Chief Learning Officer, Khan Academy) - Paul Deane (Principal Research Scientist, ETS)

Chair: John Whitmer (Senior Fellow, Federation of American Scientists) Moderator: Christopher Ormerod (Cambium Assessments) Discussant: Maggie Beiting-Parrish (Federation of American Scientists)

Full abstract here

# Resources

## Resources purchases ranking

We have requested the following purchases with our SIG funds

- ▶ Zoom account (in case we grow  $>100$ )
- ▶ Github Organization (for code sharing and management)
- ▶ Zotero w/shared space (for sharing docs and pubs privately)
- ▶ Paid website domain name (for public space for resources)



## Next Month's Speaker

**Speaker:** Noah Goodman, Stanford University

**Title:** TBD

# Publication & Position Opportunities

## **Leveraging Large Language Models for Assessment Support: Applications and Implications**

Journal: Computers and Education: Artificial Intelligence (Open Access)

Published: 28 June 2023

Deadline: 30 October 2023

Contact: Prof. Rafael Ferreira Mello at [rflm@cesar.org.br](mailto:rflm@cesar.org.br)

URL: Call for Papers

This special issue focuses on exploring the implications of utilizing large language models (LLMs) for educational assessment, with *particular emphasis on leveraging LLMs for formative feedback provision and mitigating challenges related to academic integrity*. To this end, we invite researchers from diverse fields to submit papers investigating the use of LLMs to support the assessment process.

## Assistant Professor of Artificial Intelligence in Learning and Education @ Harvard University

The Harvard Graduate School of Education (HGSE) invites applications for a full-time, tenure track faculty position at the rank of Assistant Professor focused on artificial intelligence (AI) in learning and education.

We seek scholars whose research, teaching, and impact in the field will advance one or more dimensions of AI in learning and education, including but not limited to:

- ▶ Theoretical and Empirical Foundations: Investigating the foundational theoretical principles of various learning processes in relation to AI, and/or examining these through empirical studies to understand their impact on learning and cognition.
- ▶ Design: Conceptualizing, creating, and evaluating AI-based designs, such as tools or curricula used in classrooms, online platforms, and out-of-school-time settings.

- ▶ Practice: Analyzing the pedagogical potentials and complexities of AI, attending to learners' present needs and preparation for future needs in life and work.
- ▶ Ethical and Societal Implications: Interrogating the ethical, historical, and cultural impacts of AI in learning and education, such as privacy and bias.

Strong applicants will be distinguished by the quality of their research, their use of rigorous methods, and the significance of their work for policy and practice.

## Postdoc Research Association - AI Learning Technologies @ USC

The Learning Sciences group would like to share a position opening for a postdoctoral researcher. If you have any questions, please contact Dr. Ben Nye (nye@ict.usc.edu).

[Additional details are below.](#)

Postdoctoral Research Associate - AI Learning Technologies  
University of Southern California, Institute for Creative  
Technologies

Apply at: <https://usccareers.usc.edu/job/los-angeles/postdoctoral-research-associate-ai-learning-technologies/1209/53758066992>