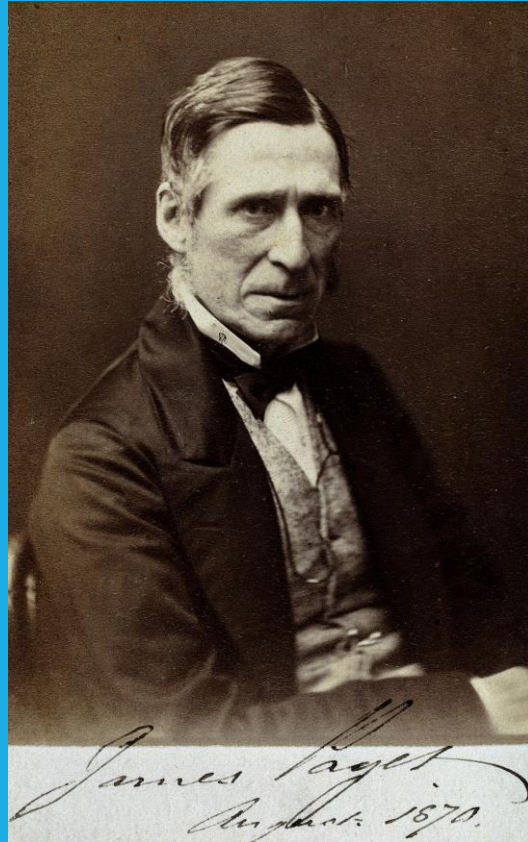


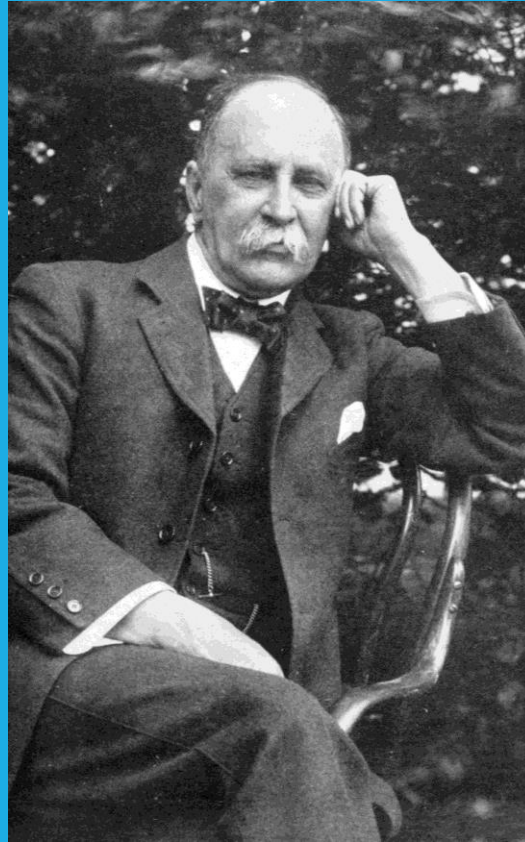
Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Dr. Jingjing Lin

Assistant professor, Center for IT-based Education, Toyohashi
University of Technology



Sir James Paget



Sir William Osler

Use **Online Journal Club** Events To Train The Educational Research Literacy: Research And Development At ResearchIC

A group of individuals who meet regularly to critically evaluate recent articles in the academic literature. Usually organized around a defined subject in basic or applied research.

Research literacy

Domains

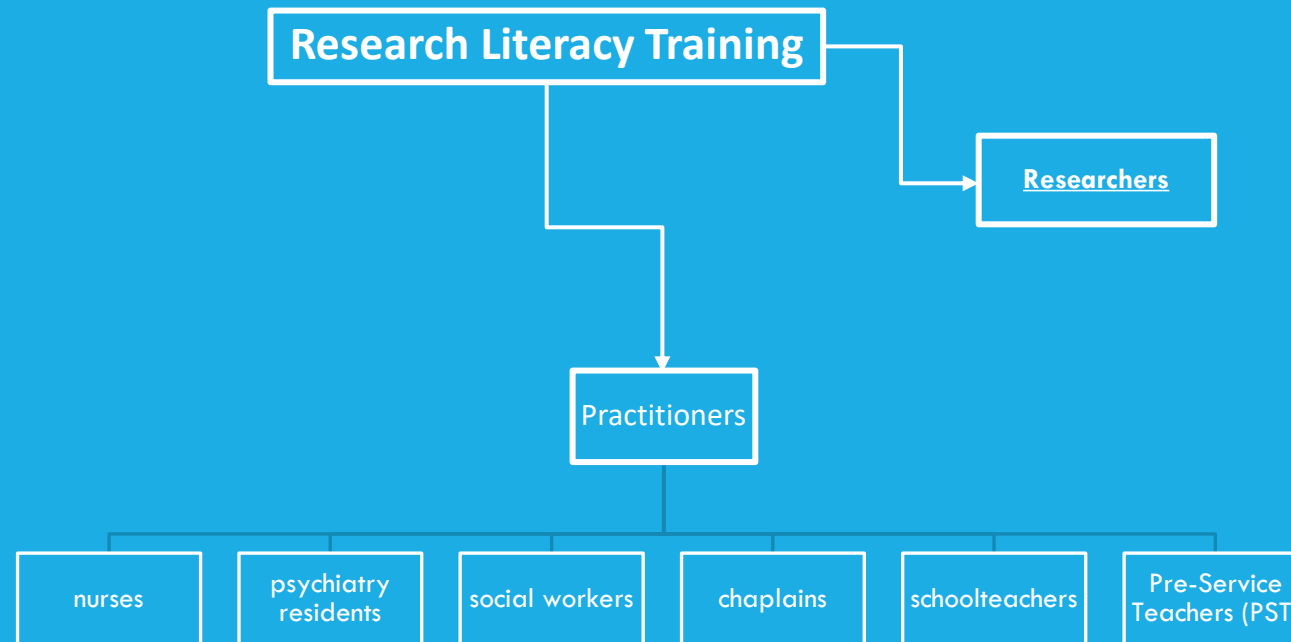
Education sciences

Medicine,
nursing, health
sciences

Other domains

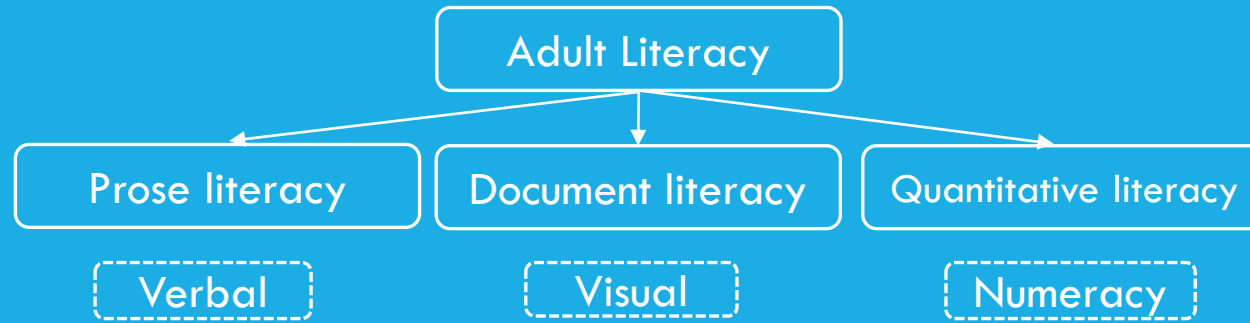
Use Online Journal
Club Events To
Train The
**Educational
Research Literacy:**
Research And
Development At
ResearchIC

Research literacy is the ability to locate, understand, discuss, and evaluate different types of research; to communicate accurately about them; and to use findings for academic and professional purposes.

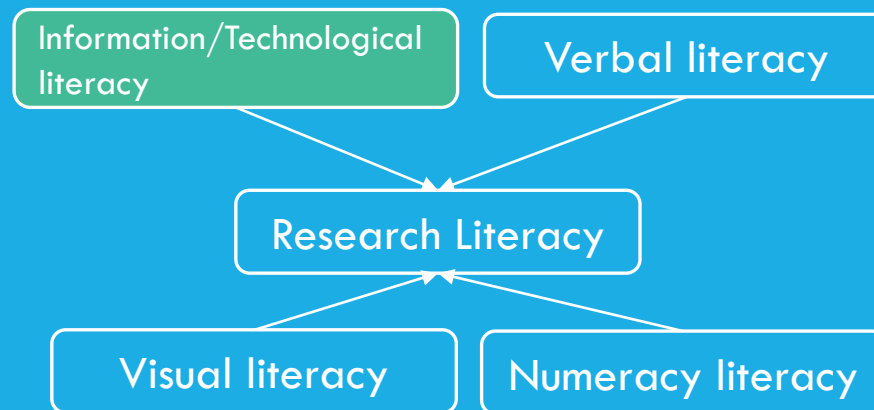


Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Research literacy is the ability to locate, understand, discuss, and evaluate different types of research; to communicate accurately about them; and to use findings for academic and professional purposes.



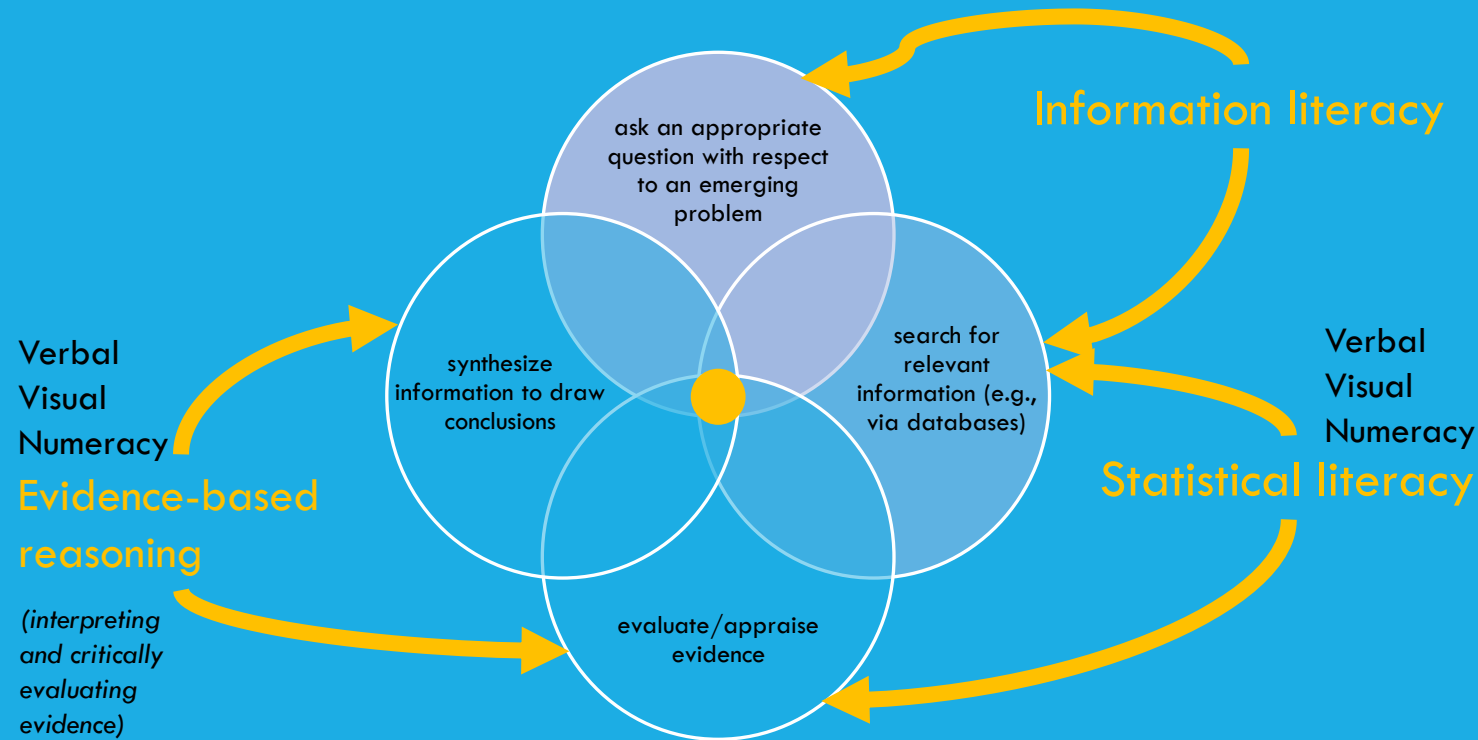
KIRSCH ET AL. (1993) ADULT LITERACY



BEAUDRY & MILLER (2016) RESEARCH LITERACY

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Research literacy is the ability to locate, understand, discuss, and evaluate different types of research; to communicate accurately about them; and to use findings for academic and professional purposes.



GROB OPHOFF ET AL. (2015):
EDUCATIONAL RESEARCH LITERACY (ERL)

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Research literacy is the ability to locate, understand, discuss, and evaluate different types of research; to communicate accurately about them; and to use findings for academic and professional purposes.

Groß Ophoff et al. (2015)

LeScEd booklet

two test sets (avoid testing effect)
to measure: information literacy,
statistical literacy, ethical reasoning
forced-choice tasks

40-minute test time (30% tasks
were left out on average; it is fine)

Tested and validated using

Pretest–posttest control group or
cross-sectional/longitudinal surveys

large samples of PST students
(e.g., 2,113 in one study and
1,655 in another study)

Veilleux and Chapman (2017b)

Psychological Research Inventory of Concepts (PRIC)

20-item vignette-based multiple
choice measure

to measure: research methodology
and statistics knowledge

either yes/no or mostly open-ended
responses to the questions

30 minutes per test

Tested and validated using

cross-sectional and longitudinal
surveys

971 participants of both psychology
and non-psychology backgrounds

Gutman and Genser (2017)

Research Literacy Inventory

18 self-report statements, based on
the work by Shank & Brown (2013)

five-point Likert scale

Tested and validated using

Pre-test and post-test with control
group

62 PST students

Han and Schuurmans-Stekhoven (2017)

Research literacy survey

15-item self-report survey

to measure: source/literature search (SLS)
and research integration methods (RIM)

Tested and validated using

Pre-test and post-test with control group
48 PST students

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Research literacy is the ability to
locate, understand, discuss, and
evaluate different types of
research; to communicate
accurately about them; and to
use findings for academic and
professional purposes.

Long-term evidence suggests that **self-regulated asynchronous learning** benefits students' retention of RL skills more than synchronous learning (Gutman & Genser, 2017).

“**Short-term intensive training** may have provided theoretical knowledge of what information to process and how to process it, but it **is insufficient** for students to fully comprehend its application in their own practice” (Han & Schuurmans-Stekhoven, 2017, p. 38).

The most validated instruments is **LeScEd booklet**.

The interventions were mostly for **PST students** in education science.

The interventions were often **general research education**, introducing research process and methods as a general experience.

Online journal club is not a common training intervention format in ERL training interventions; **How to read scientific literature was not a focus for any of the examined eight interventions.**

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

Research literacy is the ability to locate, understand, discuss, and evaluate different types of research; to communicate accurately about them; and to use findings for academic and professional purposes.



LITERATURE REVIEW

To develop Educational Research Literature Reading Test (ERLRT) to measure a person's capability of reading educational research literature.

2022-2023



INTERVIEWS

Elucidate the literature locating, reading, and organizing strategies of experienced educational researchers using video interviews.

2022-2023



SURVEYS

To run ERLRT tests among all participants of OJC events on the ResearchIC platform.

2023-2024



EXPERIMENTS

Organize a series of OJC events with educational researchers as hosts and research students as attendees between 2023 and 2024

2023-2024

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC is funded by JSPS Grant-in-Aid for Early-Career Scientists (22K13755) to conduct R&D between April 2022 and March 2025.

PUBLISHED PAPERS:

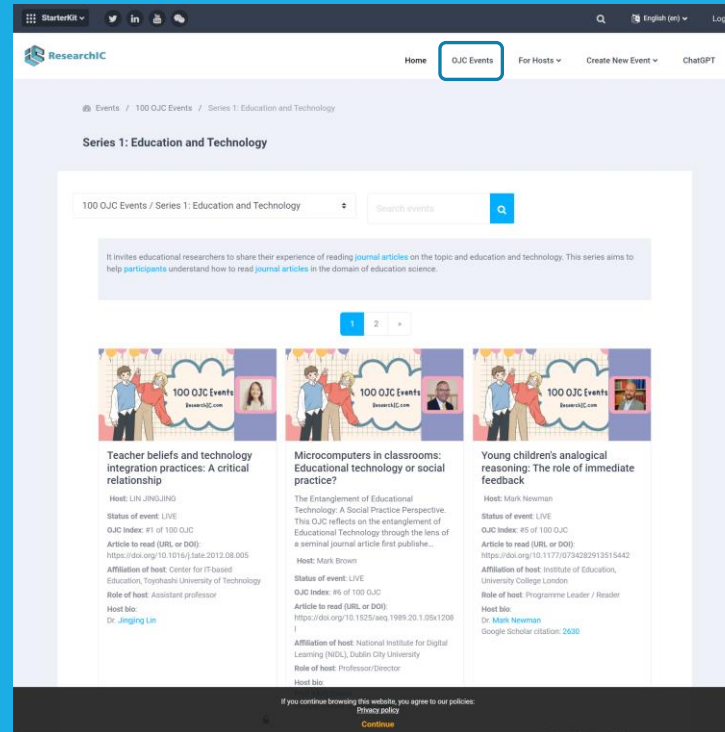
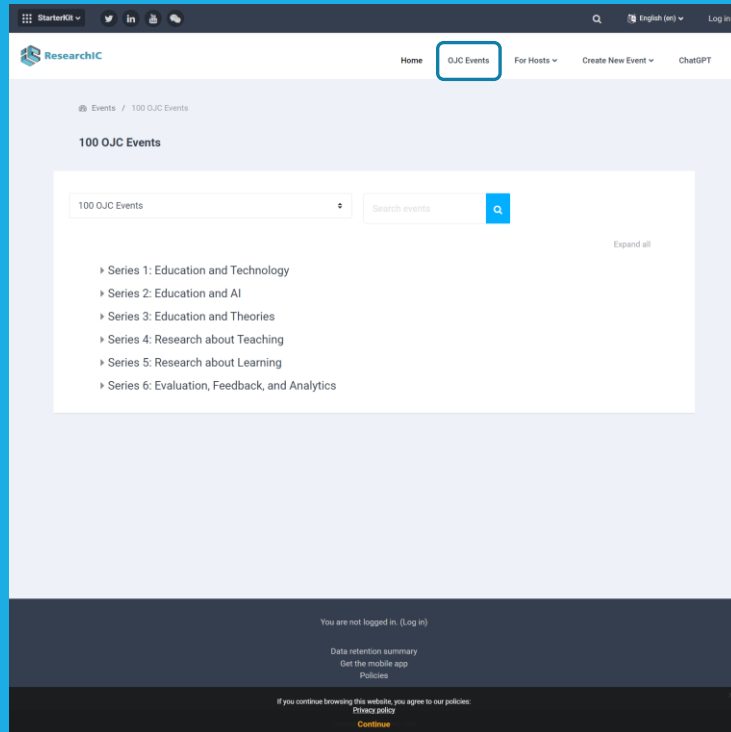
1. Lin, J. (2023). Use Online Journal Club Events to Train the Educational Research Literacy: Research and Development at ResearchIC. *Proceedings of annual conference of JSET 2023*. March 25-26, 2023, Tokyo, Japan.
2. Lin, J. (2023). Hosting Online Journal Club Events on a Global Scale using Moodle: A Report from the ResearchIC Project. *Proceedings of Moodle Moot Japan 2023*. February 15-17, 2023, Ibaraki Christian University, Japan
3. Lin, J. (2022). Measuring and Evaluating Research Literacy in Higher Education: A Synthesis of Mechanisms and Discoveries. *Proceedings of The 14th Asian Conference on Education (2022)*. November 28–December 02, 2022, Toshi Center Hotel, Tokyo, Japan (and Online).
<https://papers.iafor.org/submission65228/>
4. Lin, J. (2022). Impact of Online Journal Club On Educational Research Literacy: Introducing An Ongoing Project. *Proceedings of 2022 IEEE International Conference on Engineering, Technology & Education (TALE)*. Dec.4-7, 2022. Hong Kong.

IN-PROGRESS PAPERS:

5. Lin, J. (Ongoing). ChatGPT and Moodle Walk into a Bar: A Demonstration of AI's Mind-blowing Impact on E-Learning. *International Journal of Artificial Intelligence in Education*. Stage: Editor assigned
6. Lin, J. & Gross Ophoff, J. (Ongoing). Commons and Differences between Disciplines in Research Literacy Research: A Systematic Literature Review. *Educational Research Review*. Stage: Manuscript in progress.
7. Lin, J. (Ongoing). Educational researchers reading educational research. *Studies in Graduate and Postdoctoral Education*. Stage: Data collection and analysis.
8. Lin, J. (Ongoing). Measuring educational research reading literacy: Development and validation of the ERLRT scale. *Asia-Pacific Education Researcher*. Stage: Research planning.

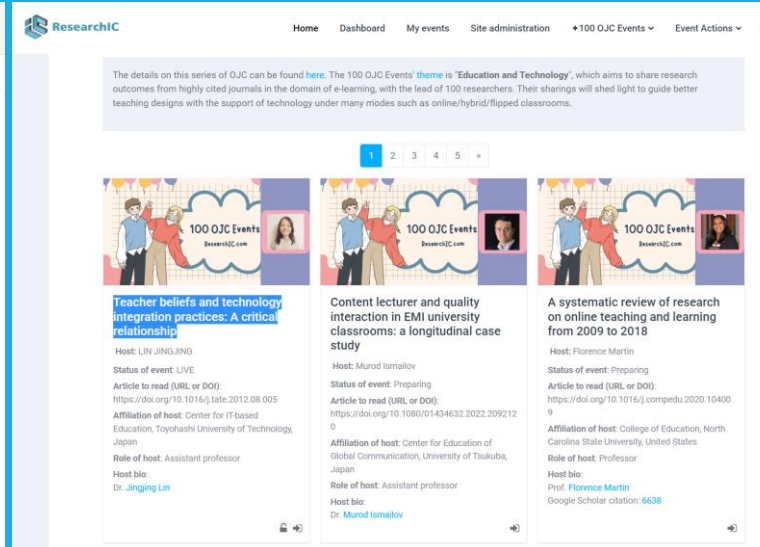
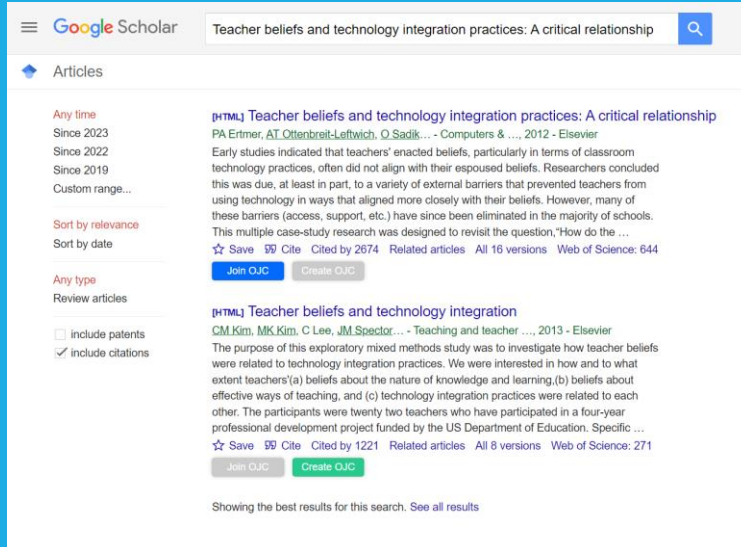
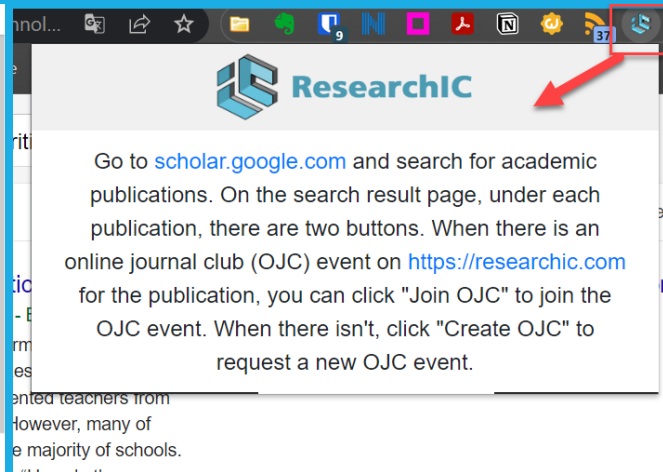
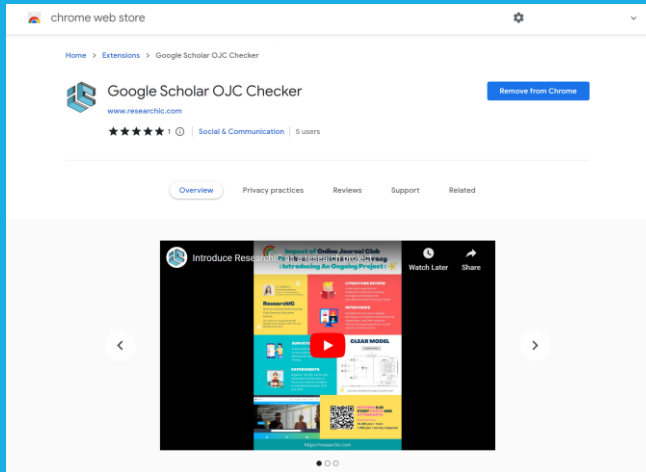
Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC project has published four conference papers as of March 2023, and has four journal articles in progress. Research progress and outputs can be found on <https://researchic.com/course/view.php?id=20>



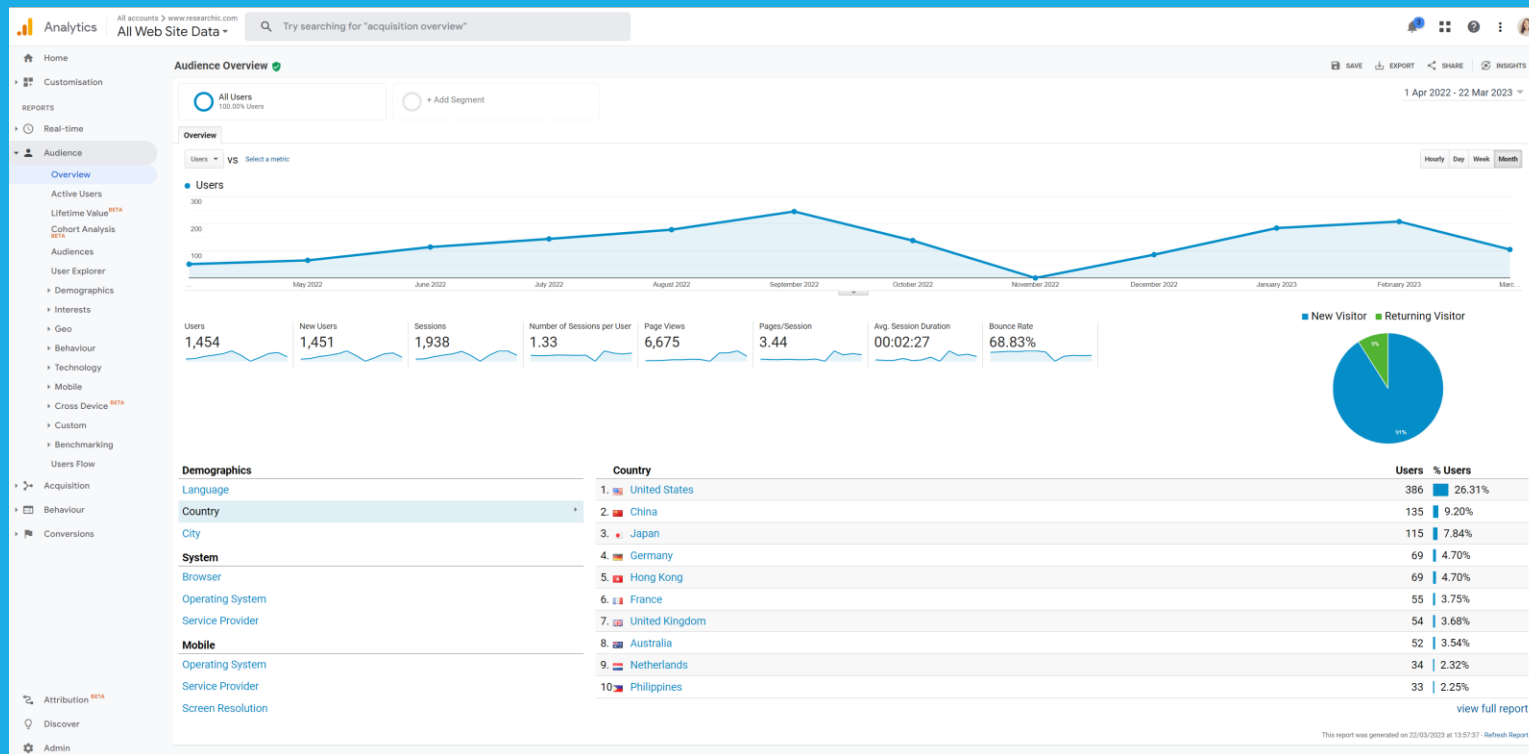
Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC has created 15 online journal club events. They generated 30 videos to share how they locate, read, and manage educational research articles.



Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC project created a Chrome browser extension "Google Scholar OJC Checker", to bridge Google Scholar search results and ResearchIC event database.



1454 visitors, 98 registered users.
Visitors mainly from United States, China, and Japan.

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC project uses Google Analytics to track site performance.

The screenshot displays the ResearchIC web application. The top navigation bar includes a 'StarterKit' dropdown, social media icons, a search bar, a notification bell, a chat icon, and an 'Edit mode' toggle. The main navigation menu contains links for Home, Dashboard, My events, Site administration, OJC Events, and For Hosts. A red arrow points to the 'For Hosts' dropdown menu. The main content area features a banner for 'Microcomputers in classrooms: Educational technology or social practice?' with a '100 OJC Events' badge and the ResearchIC.com logo. Below the banner is a sidebar with sections for 'Welcome to this OJC Event' (containing a forum and user guide) and 'Pre-test of Education Research Literacy' (marked as hidden from students). The right sidebar contains a 'ChatGPT' widget with a text input field and a blue response box, a 'Twitter hashtag' section with the #researchic_ojc tag, an 'Event Host(s)' section listing Prof. Mark Brown, a 'Coordinator(s)' section listing Ms. Cindy Liang, and an 'Online users' section.

Use Online Journal Club Events To Train The Educational Research Literacy: Research And Development At ResearchIC

ResearchIC integrates ChatGPT into the platform in March 2023, as a collaborative agent for users.

Table		
Table 2. Mapping AI applications for research		
Aa AI applications	Research-relevant functions	Benefits
ChatGPT	x	LLM
Semantic Scholar	Academic Search Engine	Discover hidden cor
ConnectedPapers	Find and explore academic papers	
Elicit	Find research papers	Helps with your liter
Jasper	x	AI Copywriter
Scholarcy	Scientific reading summarization	Reduce the time scr
Scite	Citation Evaluation	Let you see how ma
Trinka	Research Paper Writing	
CopyAI	x	Write better marketi
Rytr	Research Paper Writing	
Writesonic	Research Paper Writing	
GoCharlie	Research Paper Writing	
Writefull	Research Paper Writing	exclusively caters to
Notion	Note-taking, Writing	
GanttPRO	Progress tracking	
Typeset.io	Scientific reading	
Paper Digest	Scientific reading summarization.	Offering three-minu
iris.ai	Researcher's AI workstation	AI tools and applica
SciSpace Copilot	Paper reading and decoding	
System	Literature tree	Help you find, synth
Lex	Writing	AI-empowered editc
GitHub Copilot	Coding assistant	AI coding partner tl
Vizcom	Drawing's rendering	uses AI to create hig
Headline analyzer	x	better titles for your
Penelope.ai	Check academic manuscripts using A	one of the best AI tc
Paperpal	Research Paper Writing	
Galactica	Language Models that Cite	• explore the scienti
Explainpaper	Paper reading and decoding	• Upload a paper • t

New

Use Online Journal Club Events To Train The Educational Research Literacy: Development At ResearchIC

ResearchIC will further explore the potential of AI applications in supporting research literacy development.



Email to:

lin@cite.tut.ac.jp

Q & A

Please consider joining ResearchIC.com as users and as OJC hosts.
