Research papers of interest

Will be using Google Scholar and the university library to find papers related to the subject area.

Main subject areas to search for:

**Language learning/acquisition**

* Spaced repetition
* Input vs output
* Efficient learning techniques

**Computer assisted language learning – CALL**

* Mobile assisted language learning – MALL
* Mobile learning - ML

In terms of language learning specific papers, I won’t limit papers by the date they were published as language learning is something that has been around for hundreds of years and by limiting the research I could miss some crucial research. When it comes to papers related to technology and applications for learning I will only include papers from the past 10 years (2008 onwards) so as to make sure the information is up-to-date and relevant.

**Journals**

Computers and Education

Journal of Computer Assisted Learning

Language Learning

The Modern Language Journal

Studies in Second Language Acquisition

Computer Assisted Language Learning

Language Learning and Technology

Journal of Experimental Psychology: Learning Memory and Cognition

Brain and Language

Journal of Memory and Language

Language & Communication

Language Sciences

**Papers**

The Impact of Mobile Dictionary Use on Language Learning

<https://core.ac.uk/download/pdf/82156394.pdf>

A Trainable Spaced Repetition Model for Language Learning

<http://www.aclweb.org/anthology/P16-1174>

**EMERGING TECHNOLOGIES FROM MEMORY PALACES TO SPACING ALGORITHMS: APPROACHES TO SECOND-LANGUAGE VOCABULARY LEARNING**

*“Learning vocabulary in this way, through context, makes it much more likely that more understanding of its correct usage will be gained than through learning an item from a list, or from its appearance in a single (inauthentic) dialog. Seeing the new item in actual use also provides more information on variations it may undergo, such as stem changes, inflections, or affixes, all important aspects of being able to actually use a recently acquired item in real communication.”*

This paper also mentions RTK, SuperMemo

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.472.6575&rep=rep1&type=pdf>

Spaced Learning Enhances Subsequent Recognition Memory by Reducing Neural Repetition Suppression <https://www.mitpressjournals.org/doi/full/10.1162/jocn.2010.21532>

An Investigation into The Effect of Targeted Vocabulary Learning Using a Spaced Repetition Flashcard System on TOEIC Scores <https://www.agulin.aoyama.ac.jp/opac/repository/1000/12507/>

The efectiveness of computer-based spaced repetition in foreign language vocabulary instruction: a double-blind study <https://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=1120&context=engl_pubs>

Computer Assisted Language Learning <https://www.tandfonline.com/doi/pdf/10.1080/09588221.2010.520675?needAccess=true>

**Technologies**

* Anki
* Duolingo
* SuperMemo

**Learning techniques**

* Spaced repetition
* Memory palaces
* Mnemonic elaboration

<https://www.supermemo.com/en/articles/20rules>

<https://www.gwern.net/Spaced-repetition>

**References and further reading from Wikipedia page**

## References[[edit](https://en.wikipedia.org/w/index.php?title=Spaced_repetition&action=edit&section=6)]

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  3. [**Jump up^**](https://en.wikipedia.org/wiki/Spaced_repetition#cite_ref-3) Spitzer, H. F. (1939). Studies in retention. Journal of Educational Psychology, 30, 641–657.
  4. [**Jump up^**](https://en.wikipedia.org/wiki/Spaced_repetition#cite_ref-4) Melton, A. W. (1970). The situation with respect to the spacing of repetitions and memory. Journal of Verbal Learning and Verbal Behavior, 9, 596–606.
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  11. [**Jump up^**](https://en.wikipedia.org/wiki/Spaced_repetition#cite_ref-11) ["Spaced repetition: a hack to make your brain store information", The Guardian, retrieved 2016-04-26](https://www.theguardian.com/education/2016/jan/23/spaced-repetition-a-hack-to-make-your-brain-store-information)

## Further reading[[edit](https://en.wikipedia.org/w/index.php?title=Spaced_repetition&action=edit&section=7)]

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Card-based design combined with spaced repetition: A new interface for displaying learning elements and improving active recall

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<http://www.aclweb.org/anthology/P16-1174>

A Trainable Spaced Repetition Model for Language Learning

[https://library.port.ac.uk/dissert/view.php?dis\_id=13032&rtn=2#](https://library.port.ac.uk/dissert/view.php?dis_id=13032&rtn=2)

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<https://www.journals.elsevier.com/language-and-communication>

<https://www.journals.elsevier.com/brain-and-language>

Project notes and findings from evernote

What's the optimal amount of retention to aim for considering that the higher retention rate one has the more work one has to put in and therefore more time they have to put into study. Making long intervals causing people to forget more information could be more efficient in the long run.

<https://m.youtube.com/watch?a=&feature=youtu.be&v=uurlmW96GOg>

<https://m.youtube.com/watch?a=&feature=youtu.be&v=kOj2xLTX_sY>

SM2 algorithm

[www.supermemo.com/english](http://www.supermemo.com/english)

Removing ease factor from the algorithm: why it's not useful to language learners

<http://www.blueraja.com/blog/477/a-better-spaced-repetition-learning-algorithm-sm2>

Mention in PID about how there are a lot of language learning apps out there, a lot of which aren't based on research. Right this before the part about spaced repetition.

Check advanced software engineering lecture 2 slides for uml tools

**Paragraph at end of chapter in report on how I stuck to gant chart**

g two principles (Nakata, 2008, pp. 5–6): 1. a successful recall from memory yields superior retention to mere presentation of the target item; and 2. successfully recalling an item from memory afer a delay is more efective than recalling it immediately afer we learn it.

While research suggests that students fnd fashcards to be a useful learning tool (Wissman, Rawson, & Pyc, 2012), there is no denying that vocabulary acquisition is a complex process encompassing many aspects of the word knowledge beyond the simple “formmeaning” mapping (Nation, 2001).

High and low fidelity prototypes

<http://massimmersionapproach.com/table-of-contents/anki/low-key-anki/intro/>

判断と決断を減らすこと for buttons

<https://onlinelibrary.wiley.com/doi/10.1111/j.1540-4781.1989.tb05321.x>

<https://onlinelibrary.wiley.com/doi/10.1111/j.1540-4781.2009.00970.x>