


lickcalc: Easy analysis of lick microstructure in experiments of rodent ingestive behaviour

K. Linnea Volcko¹ and James E. McCutcheon¹

¹ Dept. of Psychology, UiT The Arctic University of Norway, Tromsø, Norway  Corresponding author

DOI: [10.xxxxxx/draft](https://doi.org/10.xxxxxx/draft)

Software

- [Review](#)
- [Repository](#)
- [Archive](#)

Editor: [Open Journals](#)

Reviewers:

- [@openjournals](#)

Submitted: 01 January 1970

Published: unpublished

License

Authors of papers retain copyright and release the work under a Creative Commons Attribution 4.0 International License ([CC BY 4.0](#))

Summary

Lick microstructure

Statement of need

lickcalc is a software suite that...

microstructural analysis first described in ([John D. Davis & Smith, 1992](#)) used more recently to understand ([Naneix et al., 2020](#))

Weibull analysis as described in ([J. D. Davis, 1996](#))

Mathematics

Single dollars (\$) are required for inline mathematics e.g. $f(x) = e^{\pi/x}$

Double dollars make self-standing equations:

$$\Theta(x) = \begin{cases} 0 & \text{if } x < 0 \\ 1 & \text{else} \end{cases}$$

You can also use plain \LaTeX for equations

$$\hat{f}(\omega) = \int_{-\infty}^{\infty} f(x) e^{i\omega x} dx \quad (1)$$

and refer to [Equation 1](#) from text.

Citations

Citations to entries in paper.bib should be in [rMarkdown](#) format.

If you want to cite a software repository URL (e.g. something on GitHub without a preferred citation) then you can do it with the example BibTeX entry below for (?).

For a quick reference, the following citation commands can be used: - @author:2001 -> "Author et al. (2001)" - [@author:2001] -> "(Author et al., 2001)" - [@author1:2001; @author2:2001] -> "(Author1 et al., 2001; Author2 et al., 2002)"

Figures

Figures can be included like this: Caption for example figure. and referenced from text using [section](#) .

Figure sizes can be customized by adding an optional second parameter: Caption for example figure.

Acknowledgements

We acknowledge contributions from ...

References

- Davis, J. D. (1996). Deterministic and probabilistic control of the behavior of rats ingesting liquid diets. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 270(4), R793–R800. <https://doi.org/10.1152/ajpregu.1996.270.4.R793>
- Davis, John D., & Smith, G. P. (1992). Analysis of the microstructure of the rhythmic tongue movements of rats ingesting maltose and sucrose solutions. *Behavioral Neuroscience*, 106(1), 217–228. <https://doi.org/10.1037/0735-7044.106.1.217>
- Naneix, F., Peters, K. Z., & McCutcheon, J. E. (2020). Investigating the Effect of Physiological Need States on Palatability and Motivation Using Microstructural Analysis of Licking. *Neuroscience*, 447, 155–166. <https://doi.org/10.1016/j.neuroscience.2019.10.036>

DRAFT