

# Template for preparing your research report submission to PNAS using Overleaf

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Keyword 1 | Keyword 2 | Keyword 3 | ...

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Figure 1 shows an example of how to insert a column-wide figure. To insert a figure wider than one column, please use the `\begin{figure*}...\end{figure*}` environment. Figures wider than one column should be sized to 11.4 cm or 17.8 cm wide. Use `\begin{SCfigure*}...\end{SCfigure*}` for a wide figure with side captions.

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<sup>1</sup> A.O.(Author One) and A.T. (Author Two) contributed equally to this work (remove if not applicable).

<sup>2</sup> To whom correspondence should be addressed. E-mail: [author.twoemail.com](mailto:author.twoemail.com)

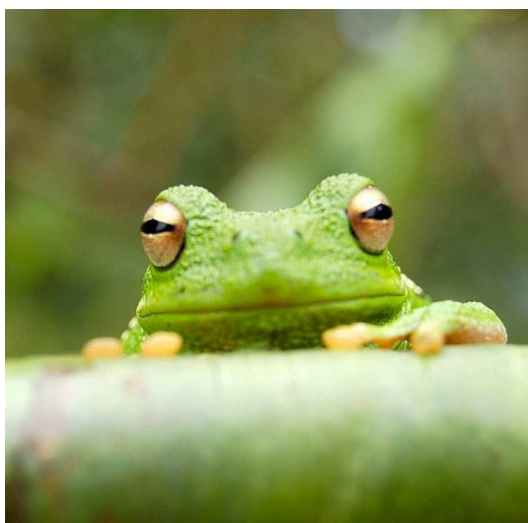
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To allow an equation to span both columns, options are to use the `\begin{figure*}... \end{figure*}` environment mentioned above for figures, or to use the `\begin{widetext}... \end{widetext}` environment as shown

in equation 1 below.

Please note that this option may run into problems with floats and footnotes, as mentioned in the [cuted package documentation](#). In the case of problems with footnotes, it may be possible to correct the situation using commands `\footnotemark` and `\footnotetext`.

$$\begin{aligned}(x + y)^3 &= (x + y)(x + y)^2 \\ &= (x + y)(x^2 + 2xy + y^2) \\ &= x^3 + 3x^2y + 3xy^2 + y^3.\end{aligned}\tag{1}$$



**Fig. 1.** Placeholder image of a frog with a long example caption to show justification setting.

**Table 1. Comparison of the fitted potential energy surfaces and ab initio benchmark electronic energy calculations**

Species	CBS	CV	G3
1. Acetaldehyde	0.0	0.0	0.0
2. Vinyl alcohol	9.1	9.6	13.5
3. Hydroxyethylidene	50.8	51.2	54.0

nomenclature for the TSs refers to the numbered species in the table.

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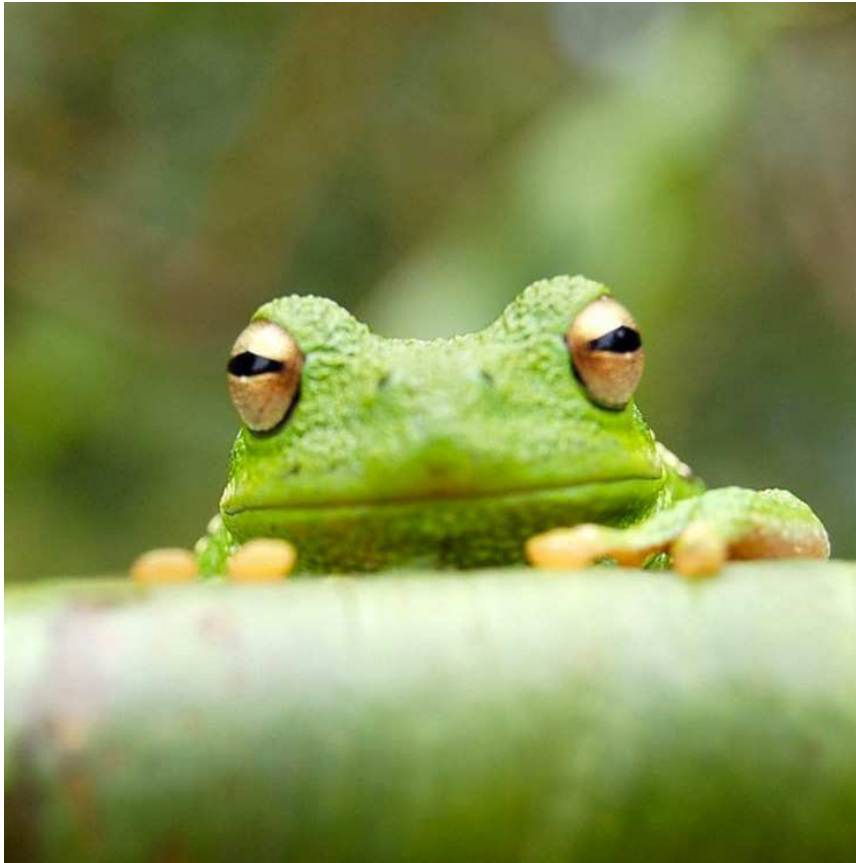
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## Materials and Methods

Please describe your materials and methods here. This can be more than one paragraph, and may contain subsections and equations



**Fig. 2.** This caption would be placed at the side of the figure, rather than below it.

as required. Authors should include a statement in the methods section describing how readers will be able to access the data in the paper.

**Subsection for Method.** Example text for subsection.

**ACKNOWLEDGMENTS.** Please include your acknowledgments here, set in a single paragraph. Please do not include any acknowledgments in the Supporting Information, or anywhere else in the

manuscript.

1. Belkin M, Niyogi P (2002) Using manifold structure for partially labeled classification in *Advances in neural information processing systems*. pp. 929–936.
2. Bérard P, Besson G, Gallot S (1994) Embedding riemannian manifolds by their heat kernel. *Geometric & Functional Analysis GAFA* 4(4):373–398.
3. Coifman RR, et al. (2005) Geometric diffusions as a tool for harmonic analysis and structure definition of data: Diffusion maps. *Proceedings of the National Academy of Sciences of the United States of America* 102(21):7426–7431.