

# Models of the Neuron: Effect of varied ablations on the *C. Elegans* Neural Network

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*Index Terms*—IEEEtran, journal, L<sup>A</sup>T<sub>E</sub>X, magnetism, paper, template.

## I. INTRODUCTION

CONNECTOMICS is a young field which aims to produce connectomes, complete connectivity maps, for living organisms. The *Caenorhabditis elegans* (*C. elegans*) round-worm is studied in this field because of its simple, and small nervous system consisting of only 302 neurons [?], [?]. The goal of the research conducted as a part of this paper is to understand neural network dynamics of *C. elegans* and what effect initial conditions have on motor neuron response. The research conducted will build off of work studying the effect of ablations of specific regions of interconnected neurons on forward motion [?].



Michael Shell Biography text here.

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John Doe Biography text here.

## II. CONCLUSION

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### APPENDIX A

#### PROOF OF THE FIRST ZONKLAR EQUATION

Appendix one text goes here.

### APPENDIX B

Appendix two text goes here.

Jane Doe Biography text here.

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The authors would like to thank...

## REFERENCES

- [1] H. Kopka and P. W. Daly, *A Guide to L<sup>A</sup>T<sub>E</sub>X*, 3rd ed. Harlow, England: Addison-Wesley, 1999.