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# POMÈS LAB

Computational Biophysics: Biomacromolecular Structure, Function, and Dynamics



## Marty Kurylowicz

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### **Bio:**

Marty Kurylowicz holds a BSc(Hon), minor in philosophy and MSc in experimental physics from UBC, and is pursuing his PhD in Biochemistry at U of T. His past scientific endeavors include optoelectronics at Nortel, low temperature physics at UBC, biophysics at the Free University of Berlin, and chasing dark matter at Stanford and Berkeley. He also runs Yogalab with his wife, and creates sculpture of biomolecular form in wood.

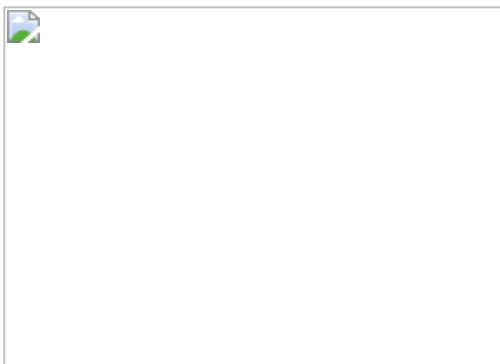
### **Research:**

- Gramicidin: Simulations of aqueous proton transport through passive channels, a comparative study of functional conformations in dioxolane-linked dimers embedded in a membrane.
- Protonated Water Clusters: The emergence of nested levels of structure from the coupling molecular eigenstates.
- Meta-networks: emergence of topological order from superpositions of boolean networks.

### **Publications:**

- D.S. Akerib et al. (2003) New Results from the Cryogenic Dark Matter Search Experiment. Phys Rev. D 68 (8): Art. No. 082002.
- Akerib DS et al. (2004) Installation and commissioning of the CDMSII experiment at Soudan\*, \*Nuc. Instr. and Meth. in Phys. Res. A 520 (1-3): 116-119.

[Currently a postdoctoral fellow at University of Guelph.](#)



## **Group - Alumni**

- [Aditi Ramesh](#) - MSc
- [Adrian Levine](#) - Researcher
- [Ana Nikolic](#) - Researcher
- [Ching-Hsing Yu](#) - Researcher
- [Chris Madill](#) - PhD
- [Chris Neale](#) - PhD
- [David Caplan](#) - MSc
- [Elisa Fadda](#) - Postdoctoral Fellow
- [Ellen Li](#) - Researcher
- [Grace Li](#) - Ph.D.
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- [Nisha Patel](#) - Researcher
- [Rachel Ko](#) - Researcher
- [Rowan Henry](#) - MSc
- [Sarah Rauscher](#) - PhD
- [Stéphanie Baud](#) - Postdoctoral Fellow
- [Tom Rodinger](#) - PhD
- [Zhuyi Xue](#) - MSc

## **Contact**

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## **Funding**

- [Canadian Institutes of Health Research](#)
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