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Two areas of the research that I do are particularly computationally intensive in nature.

The first applies machine learning techniques to non-ignorable missing data problems. These techniques are often $O(N^3 \log N)$ or higher, but include calculations amenable to analysis via GPUs.

A second area integrates genome-wide SNP and CH3 data to investigate chronic disease onset using longitudinal population-based data sets.

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Most of my programming background is statistical in nature.

My code works (eventually), but it can be slow and inefficient.

I'm hoping to learn sufficient skills and strategies so that I can revisit and improve my algorithms so that I can: a) scale my analyses and b) consider a wider range of conditions.