

## Nobody Solves the Quintic Web Site

There is a truly lovely and relatively easy topological proof of one of the most fundamental results of Galois theory, that there isn't a "formula" for solving equations of degree 5 and up. I have given talks to explain that proof (e.g., <http://drorbn.net/cumc20>, <https://www.math.toronto.edu/~drorbn/Talks/Sydney-1708>, and <https://www.math.toronto.edu/~drorbn/Talks/CMU-1504/>) and they are on video. But the animations I have used are clunky and need to be modernized. Would you be interested in doing that? At minimum you will need to re-implement the animations in my talks so as to run stably within a web browser. Even better if you will be able to add and improve, perhaps making it into a full web site explaining and exploring the proof.

**Requirements:** You must learn and feel fully comfortable with the proof and you must care for presentation. You must feel comfortable with graphics programming. You will have to show me that you have relevant experience.

**Warnings:** There is a fair chance that I will be away for a good portion of the summer, or possibly even for all of it. So much of our communications will have to occur over zoom. Given my time constraints, only absolutely excellent students will be considered, and it is very possible that no one will be chosen.