

# Extra Credit Opportunity # 2


## *Mathematics of the Three Waves of AI*

Damien Adams

Rock Creek Math Club presents...

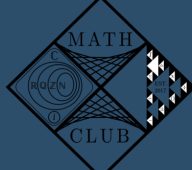
### Mathematics of the Three Waves of AI

Featuring John Launchbury, Chief Scientist at Galois Inc.



What's the ground truth on artificial intelligence (AI)? John Launchbury, formerly the Director of DARPA's Information Innovation Office (I2O), will demystify AI - what it can do, what it can't do, and where it is headed. Through a discussion of the Three Waves of AI and the capabilities required for AI to reach its full potential, John will provide technical context to help understand the roles AI already has played, does play now, and could play in the future. Along the way he will also highlight the areas of mathematics that are key to its success, in the hopes of inspiring up-and-coming mathematicians and computer scientists!

February 20 2020  
6:15-7:45 PM  
Bldg. 5 122



### What?

Your extra credit assignment is to

1. Watch all six of the PCC Rock Creek Math Club videos of the symposium *Mathematics of the Three Waves of AI*. Link below.
2. Write a one- to two-page response to the prompt provided below.
3. This extra-credit opportunity is worth 5 points.

### Where?

You can find the videos here: [https://www.youtube.com/playlist?list=PLItwFVCQ4SNCVhQ7kj3FL1qS\\_TIyKKvcu](https://www.youtube.com/playlist?list=PLItwFVCQ4SNCVhQ7kj3FL1qS_TIyKKvcu)

### When?

This is due at the same time as the other extra credit assignment – the first meeting of the last week of instruction.

### The Prompt

Please write  $1 \leq x \leq 2$  pages responding to the following questions.

- What is a piece of information you would like to know more about after watching the symposium?
- What is a piece of information you learned from watching the symposium (that you didn't know about before)?
- How does the information in this symposium apply to you and your field of study?
- If provided the opportunity, would you attend a symposium like this one in the future?