

REU-CAAR: You're Done!

William Gasarch-U of MD

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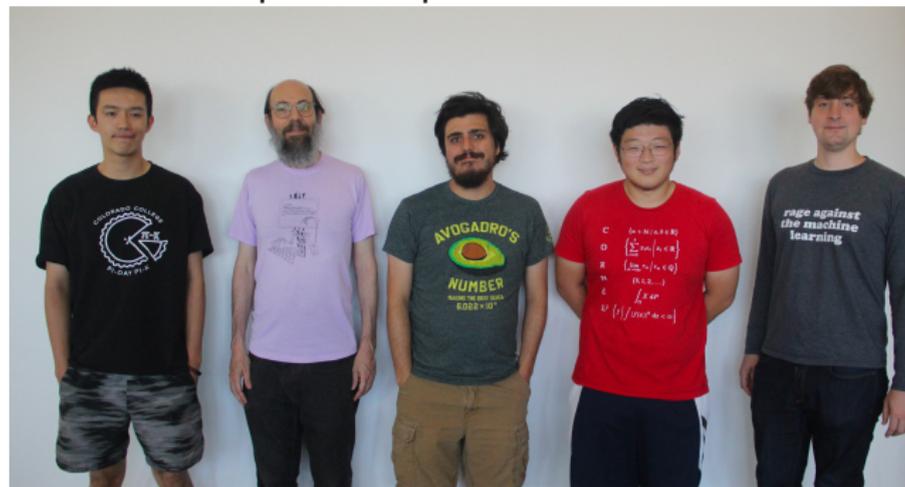
He did show up for the photo shoot. What a Diva!

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ALL OF YOU! Without you there wouldn't be a program!

Did the Program Achieve its Goals

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6. Key-card access for people without non-IDs came today!

Your Advice: Improve Lunch Activities

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Bill's Response Next summer: 61 muffins for 19 people, cut so that everyone gets $\frac{61}{19}$ and the smallest piece is $\frac{313}{684}$.

Advice: Too Much Bill

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Next slide is about content.

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1. **Early on** Have a talk on **how to do research**.
2. **Later on** Have a talk on **how to give a good talk**.
3. **Sometime** A presentation from someone at NSA or NIST or Industry on what they do.

Advice: Comp Bio Interactions

A Student Email

The Wed talks on REU-CAAR stuff were awesome!

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He will do so if the patent for the Fart-Analyzer makes money.

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Next year it should be better.

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Next year it should be better.

What about this year? If you are still confused then I will tell Sharron to send you a clarifying email.

Advice: Getting Const. Crit. from the Students

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3. If its non-anon then I can respond to students and help us clarify the issue.

THOUGHT QUESTION

We had:

- ▶ Talks by the mentors (in the first two week)
- ▶ REU activity once a week (usually Monday)
- ▶ Spy Museum.
- ▶ Talks once a week (usually Wed)
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- ▶ Fairwell Talk (now!)

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Does this **interfere** with research?

Should there be **less non-research stuff**?

Next Summer's Projects

- ▶ **Tom and Ian and Dave M:**

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Project: Use ML, Crypto, and Comp Geom to figure out

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Project Quantum Ramsey Theory.

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Am I serious?

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Am I serious? Uncertain.

Next Summer's Projects (cont)

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Next Summer's Projects (cont)

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Mentored by **Furong 'Vin Diesel' Huang**

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If Bill does not recognize Maya since she changed her hair then **Emily is right, Bill is neurodivergent**.

Next Summer's Projects (cont)

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A New Project: Chaos theory. The Butterfly Effect. Example

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Which may be a good idea anyway.

Number of Students

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- ▶ Most REU programs take 10 students

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Do I really want 22 students in Summer 2023?

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If they are like you then **YES**

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AWWWWWWWW

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Your thoughts

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CON Scattered: Quantum! Crypto! ML! Ramsey Theory?

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Thank you REU-2022 for making my dream come true!

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1. Positive thoughts or stories about the program.
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2. Tell me something interesting.

Since I am a **Egomaniac** and **Control Freak**
I will go first. And give two of each.

Positive Things About the Program

1. Great to be IN PERSON. I had forgotten how much better that was. This talk- inside jokes, personal interactions, was not possible the last two years.
2. Great Talks! Great Research! Auguste!

Interesting Fact One

In the form of a question:

What do the following people have in common:

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3. Novelty Singer Randy Rainbow.
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William Gasarch becomes **Ian Marlow**.

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In all of them every letter appears at least once. Used as counterexample to freq analysis in crypto. See next slide for more.

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4. **How I met your mother, Season 9, Episode 9:** Lily and Robin challenge Barney to get a girl's phone number without using the letter e.