

REU-CAAR: You're Here!

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Auguste: Why are you telling them all that?

Bill: In academia its very important to credit past work!

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1. Who are the mentors?

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2. What are the projects?
3. What is expected of you?
4. What should you expect of us?
5. Nuts and bolts of how the program works.
6. Advice on how to get the most out of this summer!

REU-CAAR

REU: Research **E**xperience for **U**ndergraduates.

REU-CAAR

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CAAR: **C**ombinatorics, **A**lgorithms, and **AI** for **R**eal Problems.

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REU: Research Experience for Undergraduates.

CAAR: Combinatorics, Algorithms, and AI for Real Problems.

Discuss Find a topic within CS that this title **does not** cover?

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Systems, **HCI**, **Software Engineering**, anything else?

REU-CAAR: TEAM!

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7. Exploring the **Hilbert Geometry**: Auguste G. and Dave M.

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- ▶ **Help with Final Presentations:** Clyde Kruskal.

REU-CAAR: Very Brief History

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- ▶ Algorithmic Game Theory

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Useful for the future!

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4. Talk to each other in the dorms about your projects!

What the Program Expects of You: Restart

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Acronym **SPACE AGE**

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Credit Auguste thought of making the words into an acronym.

**Issues that Probably
Won't Arise
But Need to be
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2. If you feel uncomfortable, seek advice and guidance from others. Bill Gasarch, John Dickerson, or Furong Huang (One of the REU-CAAR mentors) can offer assistance and direct you to campus resources for help. Note that in the United State there is Mandatory Reporting: if a mentor or director hears about a case of sexual harassment, they must report it.

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3. While this slide is about Sexual Harassment and Discrimination, feel free to talk to Bill Gasarch, John Dickerson, or Furong Huang about **any** issue, even if it is uncomfortable.

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SPACE AGE and **CAMERA**

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Not enough meat pizza on Game Nights

I'll do what I can.

Complain **SOONER** Rather than **Later**

Better to get a problem resolved **EARLY**, whatever they are.

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its finding whose to Blame :-)

Schedule and Activities

First Week++ Talks

You should all know about each others projects:

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In symbols

$$(\forall p)(\exists m, d)[MENTOR(p, m) \wedge TALK(p, m, d)].$$

First Week - Lunch

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4. Bill will join you for lunch some of the first week.

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2. Research-Every day.

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9. Some of these items may change (e.g., a talk on a Tuesday).

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(Is that a paradox?)

Summary of Projects and People

Auguste-Dave Geometry Project

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1. Exploring Hilbert Geometry

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1. **Exploring Hilbert Geometry**
2. **Elevator Pitch**

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3. **Students** Madeline Bumpus, Caesar Dai, Samuel Monoz, Renita Santhoshkumar, Songyu Ye.

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4. **Misc** There may be grad Students and one postdoc Zooming in from China.

Dana's Security Project

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1. **Concrete Security Estimation for Post-Quantum Cryptosystems with Side Information**

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3. **Students** Michael Gonzalez, Harikesh Kailad, Alexander Lindenbaum.

John-Ian Diff Eco Project

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3. **Students** Davidson Cheng, Yang Hong, Reem Al Marzoa, Abdulaziz Memesh.

Tom's AI-HI Project

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3. **Students** Maya Murry, Anneke Wernerfelt, Dalal Ahmidouch.

Bill's Ramsey Project

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3. **Students** Joanne Boyland, Nathan Hurtig, Robert Rust.

Furong's Fair Div and Bias

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3. **Students** Suhani Agrawal, Justin Huang, Ben Kreiswirth.

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Why am I telling you this?

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Questions from You?

I welcome questions now and anytime!