SURIM 2018 General Information

SURIM is a 10-week program with the goal of introducing young mathematicians at Stanford University to the work of mathematical research. The program begins June 24th and ends August 30th, 2019.

Participants
Jonathan Akaba, Chady Ben Hamida, Zhuoer Gu, Yuzu Ido, Aaron Kaufer, Eric Kilgore, David Kewei Lin, Alexander Moreira, Ian Ruohoniemi, Dmitri Saberi, Angela Song, Matthew Stevens, Jason Zhu

Projects
“Query Complexity of Graphs”
   Graduate mentor: Xiaoyu He

“Superconcentration for Random Variables with Symmetry”
   Graduate mentor: Felipe Hernandez

“Hidden Signals in Sum-free Sequences”
   Graduate mentor: Rodrigo Angelo

“Elliptic Curves”
   Graduate mentor: Daniel Dore

“Diophantine Equation”
   Zhuoer Gu (advised by Prof. Daniel Bump)

“Solutions to Einstein’s Equations with Cosmological/Asymptotically Flat Initial Data”
   Eric Kilgore (advised by Prof. Jonathan Luk)

“Numerical Methods for Solving Differential Equations”
   Jason Zhu (advised by Prof. Vladimir Kazeev)

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**Stipend**  
You should have been paid by now. Please let me know immediately if this is not the case.

**Rooms**  
Most SURIM-wide events will take place in 384-H or 384-I. We have also reserved 381-U and the undergraduate lounge on the 2nd floor (382-T) as SURIM working space for the whole summer.

Work hard and have fun too, but please keep in mind that staff, faculty, and graduate students continue to work in their offices over the summer. Also, please note that the math building locks at 5 PM, but you will receive key cards to give you after-hours access.

**Printing and Photocopying**  
There is a printer and a photocopier on the 4th floor you can use.

- To set up wireless printing on a Mac, go to “Printers & Scanners,” click “+” on the bottom of the left pane, select ”IP” under the weird glowy orb, type 171.64.38.25 in the “Address” field and choose “Line Printer Daemon - LPD” under “Protocol.”

- To set up wireless printing on a Windows or Linux machine, good luck! I’m sure one of you will figure it out (if you do, let me know).
Overview of Events

- Meetings with your graduate mentor(s) or faculty advisors, 1-3 times weekly (exact schedule is at their discretion).

- Faculty speakers on (some) weeks with lunch!

- Occasional check-ins (Monday afternoons) with Dr. Ohrt to see how things are going (see Calendar, more details TBD).

- Midterm reports, presented to the whole institute, in week 5.

- Final presentations, given to the whole institute, in week 9.

Preliminary Calendar
The preliminary calendar is at http://web.stanford.edu/~cohrt/SURIM%202019.html. An updated calendar will be available on the web. I’ll announce if there are changes by email, but it’s always good to look at the calendar at the beginning of the week just to be sure!

My Office Hours
Feel free to stop by my office (382-Q1) if you have a question or concern! I will generally be around the department this summer on Mondays, Tuesdays, and Wednesdays. If I’m not in, email me! If it’s urgent, call me or contact the department staff.