2023 Physics/AP/SLAC Summer Research

physics-summer-research.stanford.edu
Reminder to turn on recording
Research Opportunities

- Research “on-campus” likely possible, depending on the COVID status; remote alternative research plan still required
- Some projects require minimal to no experience and are a great way to get experience
- Research outside Stanford linked [here](#)
TYPICAL DAY
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What you’ll do

• Depending on Experience:
  – Assist grad student: build/assemble hardware and/or electronic circuits
What you’ll do

• Depending on Experience:
  – Assist grad student, mech assembly, build circuits
  – Code: analyze data, simulations
  – Do your own independent project
• Your daily contact might be the faculty member, post doc, grad student
Responsibilities

• ~40 hrs/wk as part of research group
• Attend weekly faculty talks, professional development sessions
• 6-minute presentation to peers and faculty mentors at end of summer
• Social events (e.g. LN2 ice cream); board game time… TBD based on COVID
2023 Research Schedules

• 10 weeks during the summer:
  – June 26 – September 1

• 6-minute research presentations
  – Tentative: September 1
Stipend

• 10 weeks only; dynamic stipend amount for room/board/travel/expenses
  – $7500 core stipend
  – Need-based adjustment up to $1500

• Live on campus (COVID pending) or find your own place
Funding Options

- Frosh, soph, or those who have never done research: Apply to summer research program
- Students who have received prior physics funding: Apply for a VPUE Major Grant
- Everybody: Ask your faculty mentor if they have funding to support you
- **Biophysics** research: Bio-X program
  Deadline: January 19, 8 AM PST
  Details: https://biox.stanford.edu/usrp2023
  Contact: Gabriella M. Herman, gherman@stanford.edu
Eligibility

• Sophomores and juniors must be declared Physics or Engineering Physics by application due date
• Frosh need not be a declared major but must have completed or be taking an introductory physics course by the winter quarter
• Those with prior funding must apply for Major Grant – Start Now
• Co-terms must not have received B.S. /entered Graduate Career
Strategy 1: Which years?

- **1st year:**
  - Go home,
  - Get a job,
  - See high school friends

- **2nd year:** Research in Physics
Strategy 2: Which years?

- **1\textsuperscript{st} yr**: do research here, get some experience/skills
- **2\textsuperscript{nd} year**: apply to non-Stanford programs, industry jobs
- **3\textsuperscript{rd} year**: focus on research here
  - Senior Thesis/Major Grant
What You Need To Do

• Check web page of open positions and areas, find faculty and/or areas of interest and for which you have the skills

• Follow instructions and complete the first part of the application form by January 20, 2023.
Application (2nd part)

- Get signed form from Faculty Mentor
- Submit online application with \( \frac{1}{2} \) page summary of what you will be working on
- **Due February 24, 2023 but the sooner, the better**
- Don’t delay!
- Prior year participation considered
General Support

- Faculty Talks and professional development sessions (weekly)
  - Setting goals for research over the quarter
  - Coding boot camp (?)
  - Time Management
  - Career paths/Alumni panel
  - Graduate school
  - Communication in science
  - Exposure to multiple subfields of physics
  - ...etc.
Website

https://physics.stanford.edu/undergraduate-research

- FAQs [currently outdated, we will update]
- Table of open positions (coming soon!)
- These Slides