REU Student Orientation

These slides are on our GitHub page.

Our Role: We're Here for You!

Aaron Geller & Cliff Johnson

- Support positive mentor-mentee relationships
  - "Open door" policy for both mentors & mentees
  - Confidentiality
- Aaron Zoom/Slack Hours : Tuesdays 3-5pm
- Cliff Zoom/Slack Hours : Thursdays 3-5pm
- Survey(s)
- IT support / Logistics / Admin
- Running most of the workshops

Logistics

- Dates: June 14 - August 13 (9 weeks)
- Communication: Zoom, Slack, Email
- Zoom office space
- Provided
  - Quest Accounts + NetID
  - Stipends

Day 1 (Monday, June 14)
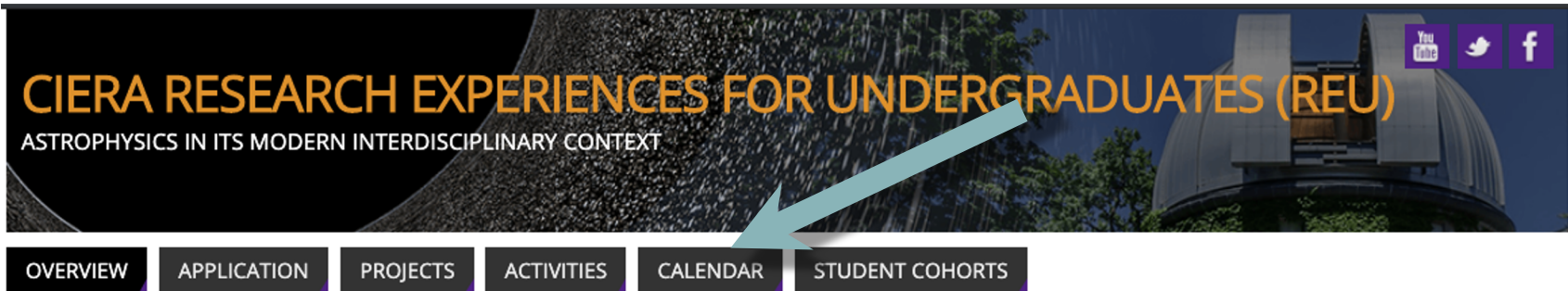
11am - 12:30pm: CIERA REU Orientation

12:30pm - 1:30pm: Break/Lunch

Sometime between 1:30-5:30pm: Meet with mentor(s), add items to map
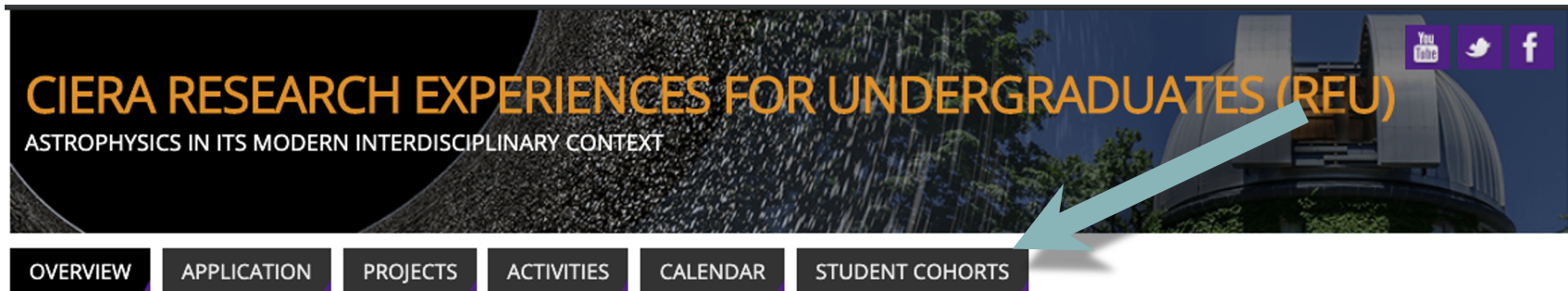
5:30pm: Zoom Hangout/Dinner

Professional Development

- Python programming workshops (6 sessions)
- Quest tutorial
- GitHub tutorials (2 sessions)
- Research website making workshop (2 sessions)
- RCTP science communication workshops (3 sessions)
- Research seminars by NU (and other) researchers
- Writing workshops (2 sessions)
- Grad school + GRE & Career Panel Discussions

CIERA RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU)
ASTROPHYSICS IN ITS MODERN INTERDISCIPLINARY CONTEXT

OVERVIEW APPLICATION PROJECTS ACTIVITIES CALENDAR STUDENT COHORTS

Final Products

- Poster to present at January AAS meeting
  CIERA Mozilla Hubs poster session (August 12)
  Adler Mozilla Hubs poster session? (August 13)
- Journal article for RNAAS (let's publish!)
- Research website, GitHub repo(s)
- Keep working with your advisor(s) remotely!

Community/Team Building

June 14 : Zoom hangout/dinner + Map activity

June 18 : Zoom lunch with previous REU students now @ NU

June 24 : "Drawize" activity

June 29 : "arXiv vs snarXiv" activity

July 7 : TBD (you suggest/schedule)

July 21 : Indoor scavenger hunt

July 28 : TBD (you suggest/schedule)

Aug 7 : TBD (you suggest/schedule)

Faculty Mentors & Projects

Student	Advisor(s)	Project subject area (general)
David Barker	Eric Dahl + Rocco Coppejans	Dark matter
Dan Blanco	Daniel Horton	Climate
Qifeng Cheng	Giles Novak + Patrick Sheehan	Star formation
Mallory Drevline	Daniel Lecoanet	Stellar interiors
Sara Eberlin	Mel Ulmer	Transients
Rebecca Guilfoyle	Claude-Andre Faucher-Giguere + Tjitske Starkenburg	Galaxy evolution
Saarah Hall	Wen-fai Fong + Kerry Paterson	Supernovae
Rachel Hur	Vicky Kalogera	Gravitational waves
Ryan Lebron	Adam Miller + Wen-fai Fong	Stellar variables
Emma McGinness	Andre de Gouvea	Neutrinos
Ilia Qato	Vicky Kalogera	Gravitational waves
Naomi Shechter	Shane Larson	Gravitational waves
Jason Vazquez	Wen-fai Fong + Charlie Kilpatrick	Supernovae
Oswaldo Vazquez	Claude-Andre Faucher-Giguere + Sarah Wellons	Galaxy evolution
Jonte' Williams	Fred Rasio + Giacomo Fragione	Black holes and star clusters

Intro Activity

Two Truths and a Lie

Communication Options

Ask your mentor(s) their preferred form of communication.

We will use the following:
- **Slack**
  - Quick response time, short entries
  - Cohort channel
- **Email**
  - Longer wait time, but more permanent
  - Easier to search
- **Zoom**
  - "In-person" meetings
  - online office

Communication Options

Slack Use: Channels

- #general
- #announcements
- #reu2021
- #code and #research
- DMs

Communication not working well? Talk to us!

Remote work can be challenging and is relatively new to most of us. Please don't hesitate to speak up if you have a suggest for a useful solution or need help in sorting out an alternate plan.

Research Project Best Practices

- Communicating with your Mentor(s)
- Optimizing Your Progress
- Developing Independence

Diversity, Bias & Stereotypes

Our Code of Conduct : https://github.com/ageller/CIERA_REU/blob/master/orientation/CodeOfConduct.pdf

- ## Impostor Syndrome :

A psychological pattern in which people doubt their accomplishments and have a persistent, often internalized fear of being exposed as a "fraud". Despite external evidence of their competence, those exhibiting the syndrome remain convinced that they are frauds and do not deserve the success they have achieved. Proof of success is dismissed as luck, timing, or as a result of deceiving others into thinking they are more intelligent and competent than they believe themselves to be. (https://en.wikipedia.org/wiki/Impostor_syndrome)

- ## Unconscious Bias :

Learned stereotypes that are automatic, unintentional, deeply ingrained, universal, and able to influence behavior (https://en.wikipedia.org/wiki/Implicit_stereotype, https://en.wikipedia.org/wiki/Unconscious_bias_training)

- ## Stereotype Threat :

A situational predicament in which people are or feel themselves to be at risk of conforming to stereotypes about their social group. Stereotype threat has been shown to reduce the performance of individuals who belong to negatively stereotyped groups. If negative stereotypes are present regarding a specific group, group members are likely to become anxious about their performance, which may hinder their ability to perform at their maximum level. Importantly, the individual does not need to subscribe to the stereotype for it to be activated. (https://en.wikipedia.org/wiki/Stereotype_threat)

See also :
https://csma.aas.org/ , https://cswa.aas.org/unconsciousbias.html , http://www.astrobetter.com/wiki/Diversity , https://www.aura-astronomy.org/diversity/

Self Care

Actively take care of your body and mind!

- Sleep well and enough
- Exercise (even just going for a walk)
- Keep up with personal hygiene
- Set a schedule and stick to it
- Set <u>realistic</u> goals for yourself
- Schedule non-work activities
- Talk with your cohort about things other than work
- Be kind to yourself

https://astrobites.org/2017/11/24/taking-care-with-self-care/

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