

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

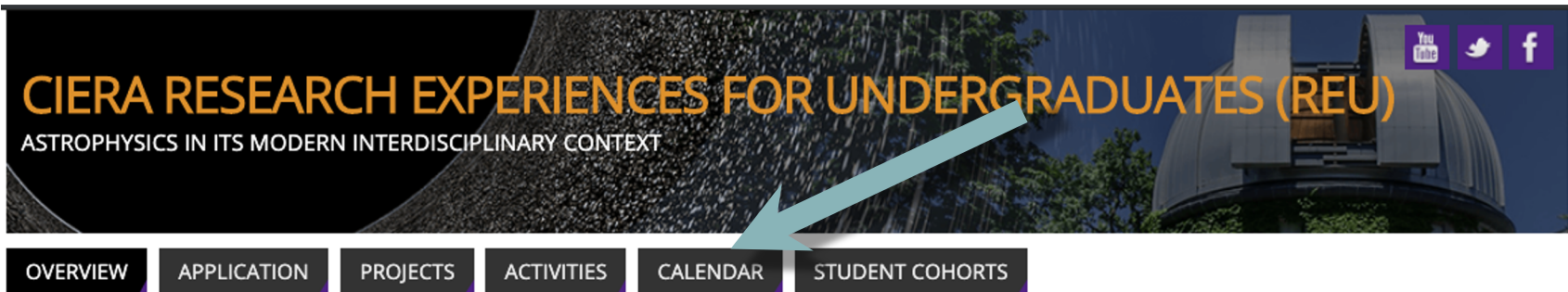
12:30pm - 1:30pm: Break/Lunch

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

5:30pm: Zoom Hangout/Dinner

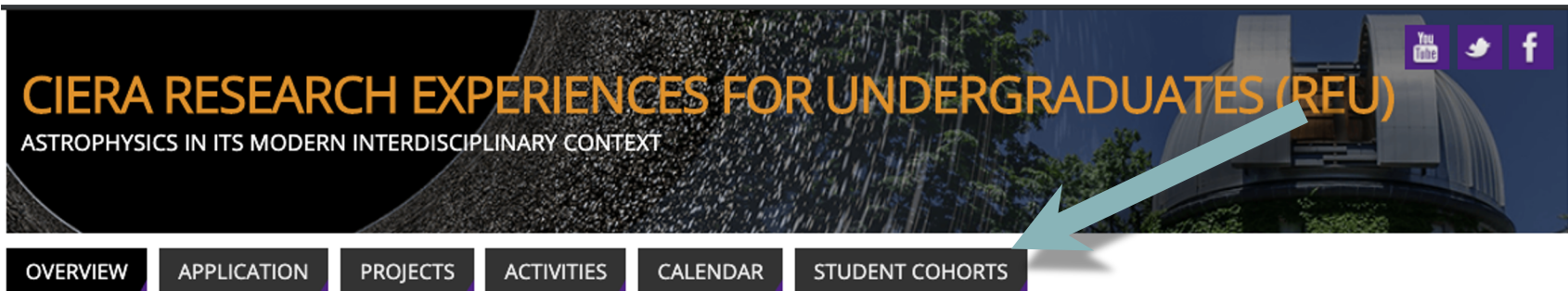
Professional Development

- 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



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 + Sara 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 realistic goals for yourself
- Schedule non-work activities
- Talk with your cohort about things other than work
- Be kind to yourself

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