

# REU Student Orientation

These slides are on our GitHub page.

# Our Role: We're Here for You!

Aaron Geller, Cliff Johnson, Newlin Weatherford

- 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 22 - August 21 (9 weeks)
- Communication: Zoom, Slack, Email
- Zoom office space
- Provided
  - Quest Accounts + NetID
  - Stipends

# Day 1 (Monday, June 22)

11am - 12:30pm: CIERA REU Orientation

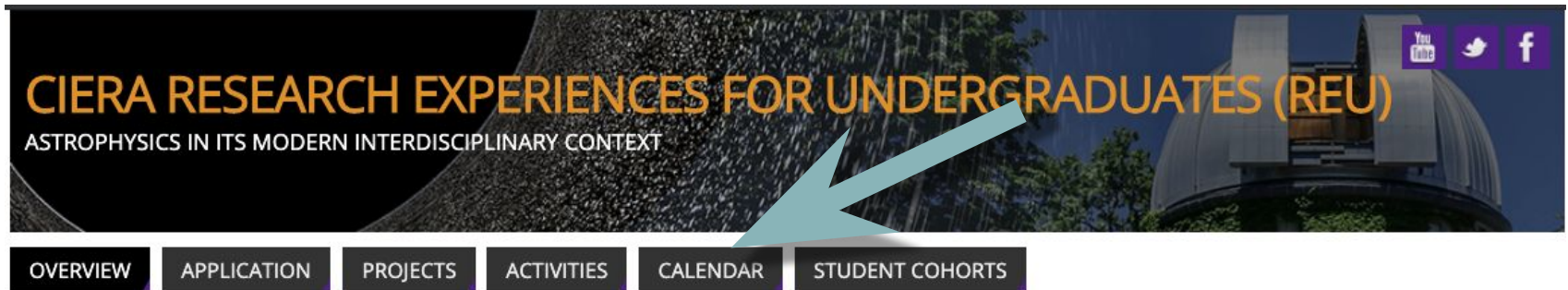
12:30pm - 1:30pm: Break/Lunch

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

5:30pm: Zoom Hangout/Dinner

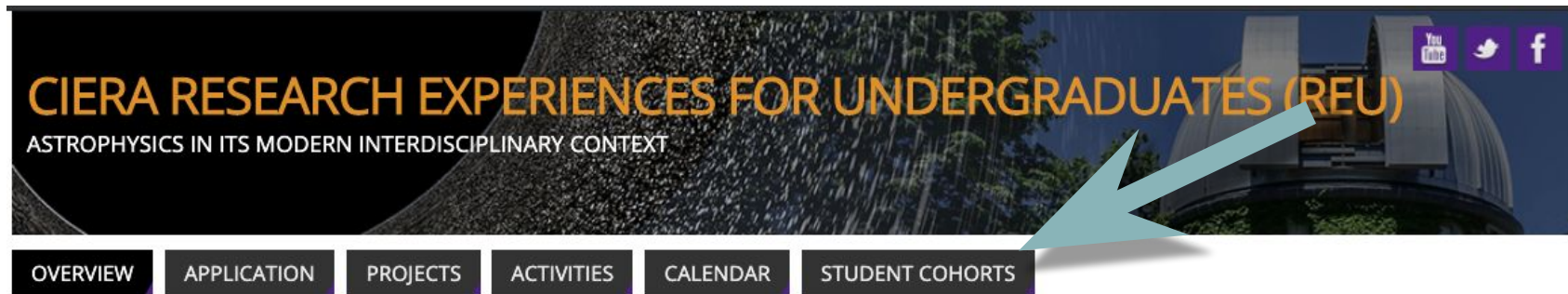
# Professional Development

- 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 Zoom poster session (August 20)  
Adler Planetarium Zoom poster session? (August 21)
- Journal article for RNAAS (let's publish!)
- Research website, GitHub repo(s)
- Keep working with your advisor remotely!



# Community/Team Building

June 22 : Zoom hangout/dinner

June 26 : Zoom lunch with previous REU students now @ NU

July 6 : Map activity

July 22 : Indoor scavenger hunt

Aug 7 : Zoom hangout/dinner

Suggestions? (Online games?)

# Faculty Mentors & Projects

Student	Advisor(s)	Project subject area
Erica Albrigo	Mel Ulmer	Galaxy evolution?
Kwamena Awotwi	Sasha Tchekhovskoy	Black holes and accretion
Rachel Fry	Daniel Horton	Exoplanet atmospheres
Elena Gonzalez	Mario Spera + Fred Rasio	Black holes in star clusters
Chloe Klare	Andre de Gouvea	Neutrinos
Scott Mackey	Selim Shahriar	Gravitational waves
Sarah Popp	Wen-fai Fong	Stellar explosions
Jared Siegel	Vicky Kalogera + Christopher Berry	Gravitational Waves
Madelyn (Maddy) Sita	Suzan van der Lee	Mars
Estephani TorresVillanueva	Luke Kelley + Claude-Andre Faucher-Giguere	Galaxy evolution
Tobin Wainer	Cliff Johnson	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
- #reu2020
- #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](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](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/Implicit_stereotype), [https://en.wikipedia.org/wiki/Unconscious\\_bias\\_training](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](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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# Map