

The background is a dark space scene. On the right, a large, reddish-orange planet with prominent rings (Saturn) is partially visible. In the upper left, a white rocket with red and blue accents is flying towards the right. In the lower right, a satellite with a blue body and two red solar panel arrays is shown. Several constellations are depicted with blue lines connecting dots: one in the upper left, one in the upper middle, and one in the lower right. There are also several bright, multi-pointed starburst graphics scattered across the scene.

# Intro to AJRC

FALL 2023

Olivia Greene and Krystal Ruiz-Rocha

# WHAT IS AJRC?



- “*Astronomy Journal Research Club*”.
- Good practice for giving scientific talks.
- Slightly more specialized than a colloquium talk.



- First-year Grad students are exempt their 1<sup>st</sup> semester.
- First-year Bridge students are exempt their 1<sup>st</sup> year

# ARE YOU GETTING OUR EMAILS?

---

- Make sure you're on the AJC and Physics-Astronomy lists:

[PHYS\\_AJC@LIST.VANDERBILT.EDU](mailto:PHYS_AJC@LIST.VANDERBILT.EDU)

[PHYS\\_ASTRO@LIST.VANDERBILT.EDU](mailto:PHYS_ASTRO@LIST.VANDERBILT.EDU)

- If not, talk to Don Pickert (SC 6301) or email him at:  
[donald.pickert@vanderbilt.edu](mailto:donald.pickert@vanderbilt.edu)
- Slack channel in Vanderbilt Astronomy: #journal\_club

The background is a dark space scene with various celestial bodies. In the top left is a large yellow sun or moon. Scattered throughout are several planets: a blue and white striped planet in the top right, a red and white striped planet in the middle right, a blue and white striped planet with a yellow ring in the bottom right, and a red and white striped planet in the bottom left. Numerous small white stars are also visible.

# WHERE & WHEN?

Every Wednesday at 12pm.


Here, in SC 6333.

We will have food!!

# HOW TO FIND AJRC INFORMATION?

Link: <https://as.vanderbilt.edu/astronomy/>

VANDERBILT



College of Arts and Science

Search

Vanderbilt Astronomy Group

HOME

ABOUT US

RESEARCH

PEOPLE

EVENTS

PHD PROGRAM

CLASSES

FACILITIES

RESOURCES

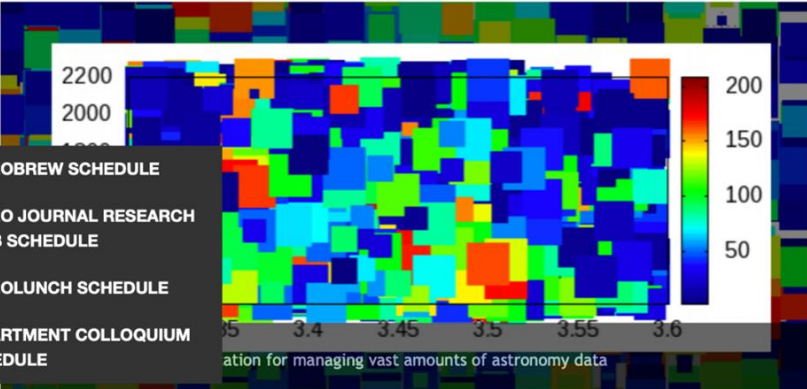
CONTACT

ASTROBREW SCHEDULE

ASTRO JOURNAL RESEARCH CLUB SCHEDULE

ASTROLUNCH SCHEDULE

DEPARTMENT COLLOQUIUM SCHEDULE



ation for managing vast amounts of astronomy data

The Astronomy Group is a part of the Department of Physics & Astronomy at Vanderbilt University. Both theoretical and observational research is carried out at Vanderbilt, with the work carried out at various national, international and space-platform facilities. In addition, Vanderbilt helps operate the [KELT](#) survey for transiting extrasolar planets, and members of the group are active participants in the [Kepler](#) and [SDSS 3](#) collaborations, as well as preparing for future large-scale projects like [TESS](#) and [LSST](#). The on-campus [ACCRES cluster](#), with over 4000 CPUs, provides the resources for computational astrophysics.

CONTACT US

The Astronomy Group is a part of the Physics & Astronomy Department

Phone  
(615) 322-2828

Fax  
(615) 343-7263

Email  
[physics-astronomy@vanderbilt.edu](mailto:physics-astronomy@vanderbilt.edu)

On Campus  
6301 Stevenson Center  
([view map](#))

Mailing Address  
Physics & Astronomy Department  
Vanderbilt University  
6301 Stevenson Center  
Nashville, TN 37235

# 2023-2024 SCHEDULE

## Vanderbilt Astronomy Group

[HOME](#)  
[ABOUT US](#)  
[RESEARCH](#)  
[PEOPLE](#)  
[EVENTS](#)  
[PHD PROGRAM](#)  
[CLASSES](#)  
[FACILITIES](#)  
[RESOURCES](#)  
[CONTACT](#)

[← Journal Club -Fall 2022-Spring 2023](#)

### ASTRO JOURNAL RESEARCH CLUB: FALL, 2023 – SPRING, 2024

Posted on [August 15, 2023](#) by [Krystal Ruiz-Rocha](#)

**Note:** Link for the Google Form: <https://forms.gle/p7zEM7BTTLR6UG2A6>

DATE	TITLE	SPEAKER
September 6, 2023	Intro Talk	Krystal and Olivia
September 13, 2023	Lightning Talks	Everyone!
September 20, 2023		William Lamb
September 27, 2023		Krystal Ruiz-Rocha
October 4, 2023		Levi Schult

#### CONTACT US

The Astronomy Group  
is a part of the  
[Physics & Astronomy  
Department](#)

**Phone**  
(615) 322-2828

**Fax**  
(615) 343-7263

**Email**  
[physics-astronomy  
@vanderbilt.edu](mailto:physics-astronomy@vanderbilt.edu)

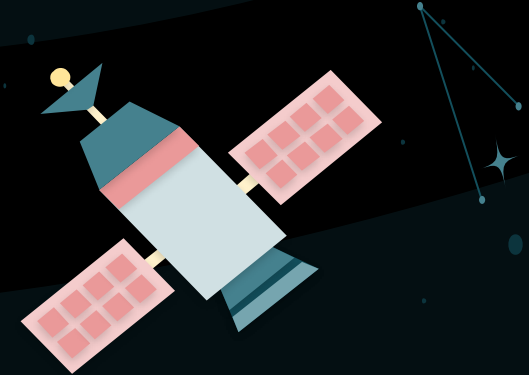
**On Campus**  
6301 Stevenson Center  
([view map](#))

**Mailing Address**  
Physics & Astronomy  
Department  
Vanderbilt University  
6301 Stevenson Center

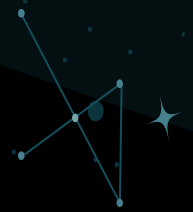




# GUIDELINES



- For PhD students:
  - Aim for 40-50 minutes + Questions
- For Bridge students:
  - Aim for 20 minute talks + 10 minutes for questions
- Keep your audience in mind.
- Be really familiar with the topic.
- Introduce the topic and explain why it is important
  - Use figures and plots, if possible.
- Explain what the “big picture” is.
- Close with a short summary
- Be ready to answer questions either during or at the end



# GUIDELINES CONT.

- DOs:

- Topic beyond a specific sub-field of astronomy
- Know all the major points of the paper
- Provide background to the topic
- Nice graphics.
- Practice your talk.
- Be ready for questions.

- DON'Ts:

- Review Papers
- Too many equations in one slide
- Too much jargon
- Exceed your allotted time.







# FINDING A TOPIC

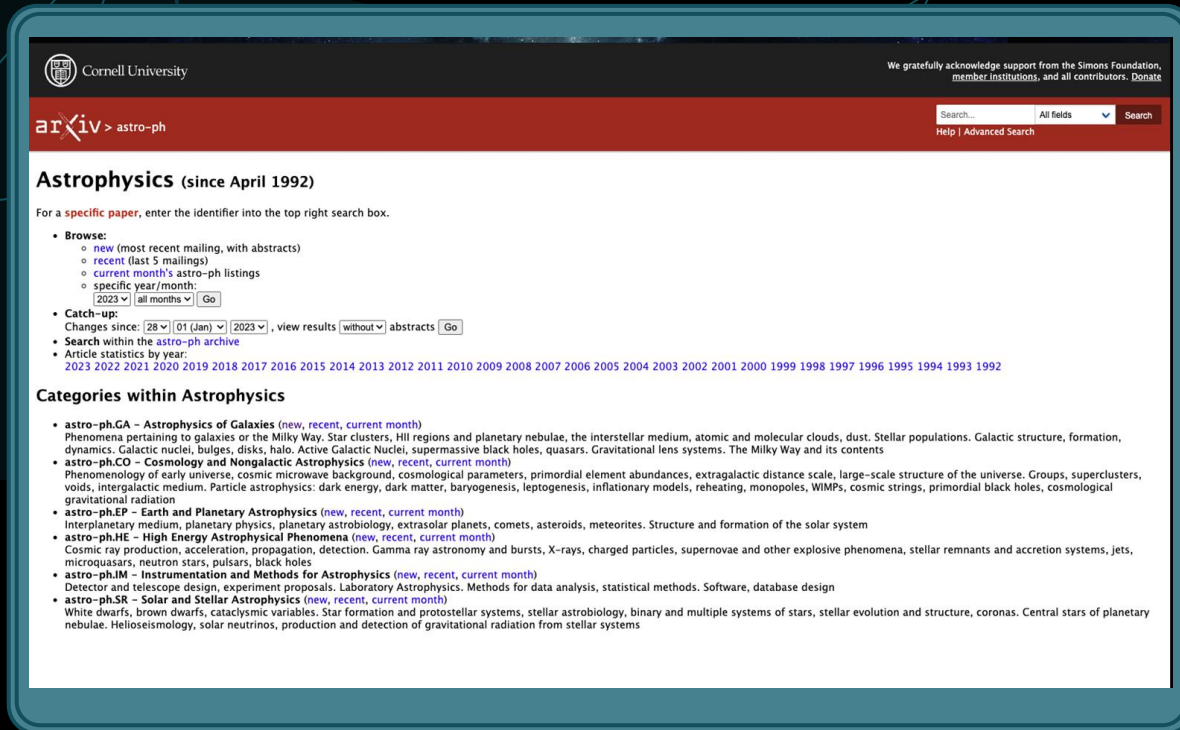
---

Present someone else's research

Present your own research.

# FINDING A TOPIC CONT.

## Presenting someone else's research



arXiv & astro-ph

<http://arxiv.org/archive/astro-ph>

# FINDING A TOPIC CONT.

Presenting someone else's research

OSU The Daily Brew



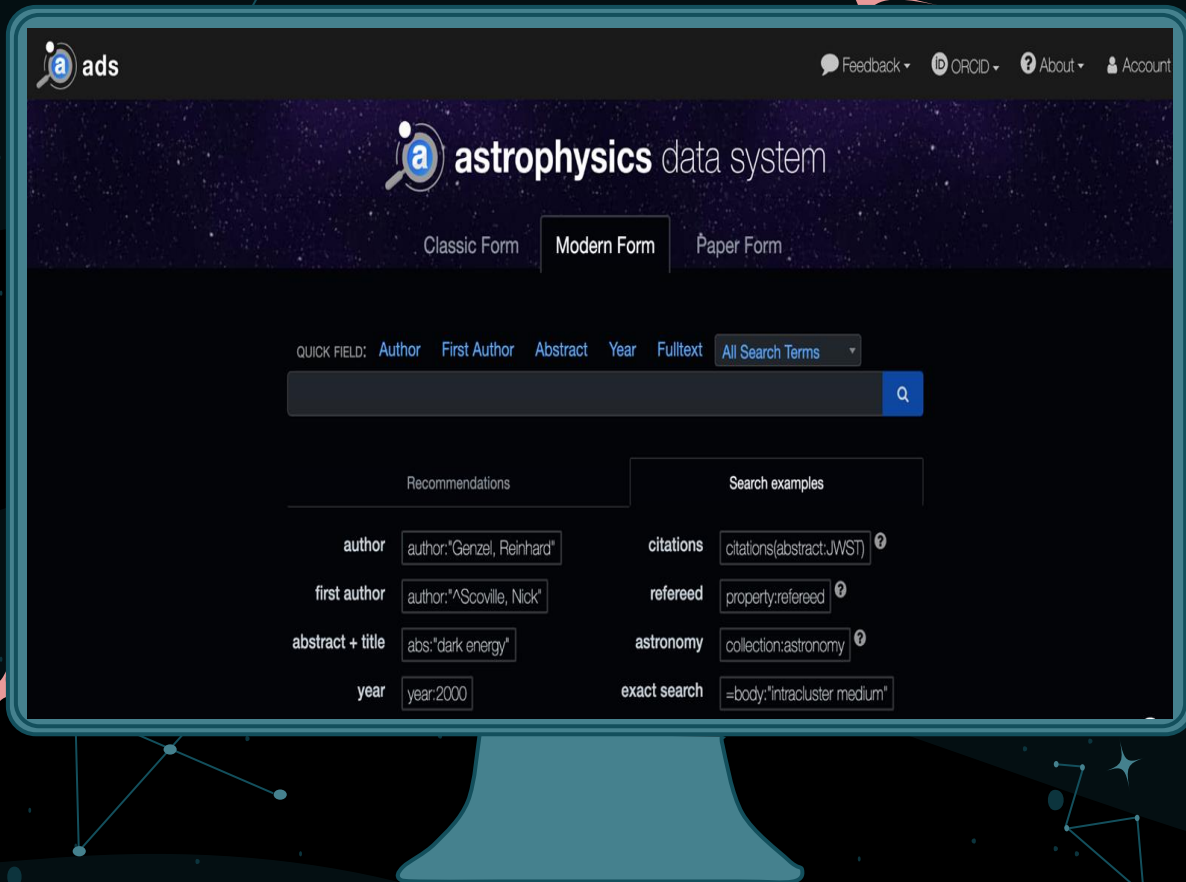
<http://www.astronomy.ohio-state.edu/Coffee/coffee.html>

# FINDING A TOPIC CONT.

Presenting someone else's research

ADS

<http://adsabs.harvard.edu>



# PRESENT YOUR OWN RESEARCH

- A paper you have submitted or published recently.
- Something you are working on where you would like feedback.



# OTHER RESOURCES

link: <https://as.vanderbilt.edu/astronomy/journal-club/>

HOME  
ABOUT US  
RESEARCH  
PEOPLE  
**EVENTS**  
PHD PROGRAM  
CLASSES  
FACILITIES  
RESOURCES  
CONTACT

## TALKS AND MEETINGS

### Astronomy Journal Reserch Club

**Journal Club** meets Wednesdays at 12:00 pm in SC 6333. Please see schedule below. Contact:

Krystal Ruiz-Rocha and Olivia Greene ([ajrc@vanderbilt.edu](mailto:ajrc@vanderbilt.edu))

- [Current Journal Club Schedule](#)
- [Journal Club Schedule Archives](#)

#### Useful Tips:

- [AJC Intro – Fall 2016 \(PDF\)](#)
- [Giving a Scientific Talk](#)
- [Journal Club Guideline](#)
- [Presentation Rubric](#)
- [Evaluation Form](#)

#### Useful Links for finding Papers

- [arXiv astro-ph](#)
- [OSU The Daily Brew](#)
- [arXiver](#)
- [ADS](#)
- [ADS 2.0 Beta](#)
- [Astrobites](#)

#### CONTACT US

The Astronomy Group  
is a part of the  
Physics & Astronomy  
Department

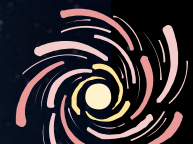
**Phone**  
(615) 322-2828

**Fax**  
(615) 343-7263

**Email**  
[physics-astronomy@vanderbilt.edu](mailto:physics-astronomy@vanderbilt.edu)

**On Campus**  
6301 Stevenson Center  
([view map](#))

**Mailing Address**  
Physics & Astronomy  
Department  
Vanderbilt University  
6301 Stevenson Center  
Nashville, TN 37235





# SUMMARY

---

- Good for practicing giving talks
- **Phd Students:** 40-50 minutes + Questions
- **2nd year Bridge Students:** 20 minutes + 10 min for questions
- Know the key points of the paper
- Know the background and terminology
- Use the available resources





Questions?

A dramatic night sky filled with dark, heavy clouds. Multiple bright, jagged lightning bolts are visible, illuminating the clouds and creating a high-contrast scene. The bottom of the image shows a dark silhouette of a landscape, including what appears to be a fence line and some trees on the left. The overall mood is intense and powerful.

AJRC

Lightning Talks

# RULES

An introduction to you.

- Your name
- Where you're from
- Your family
- Something you love

Your research

- Give us your elevator pitch.

Exactly 1 minute long.

- We're here for a good time, not a long time.