

Lindsay R. House

NSF GRADUATE RESEARCH FELLOW ASTRONOMY PHD CANDIDATE

She/her. PMA 16.216, UT Austin, 2515 Speedway Blvd Austin, TX 78712

Indsay.r.house@gmail.com | ♣ https://lindsay.house/ | № 0000-0002-1496-6514

Education ____ **University of Texas Austin** Spring 2025 (expected) GPA 3.9/4.0 PhD Astronomy • Dual Concentration in Teaching & Mentoring and Science Public Policy NSF Graduate Research Fellow • Advisor: Dr. Karl Gebhardt & Keely Finkelstein University of North Carolina (UNC) Greensboro 2018-2019 **BS Physics** GPA 3.9/4.0 • Advisor: Ian Beatty & Alicia Aarnio **University of North Carolina Asheville** 2012 - 2016 GPA 3.8/4.0 BS Applied Mathematics in Biochemistry • Highest Distinction in Mathematics Highlights. GUEST APPEARANCE FOR WHITE HOUSE OSTP - INNOVATION AWARD May 2024 'NASA Partner Zooniverse Receives White House Open Science Award' CO-I FOR NASA CITIZEN SCIENCE SEED FUNDING GRANT \$ 160.009 **NASA OSTEM**

\rightarrow NASA ADS Link - Click Here \leftarrow

ARTICLE PUBLISHED IN SCIENCE MAGAZINE

'A Cosmic Perspective' by Lindsay R. House

Professional Experience _____

- 2022 '25 NSF Graduate Research Fellow, UT Austin Astronomy Department,
 - 2024 NSF Summer INTERN, Adler Planetarium & Zooniverse,
 - 2023 Workshop Facilitator, McDonald Observatory.
 - 2022 Astronomy Education Internship, Smithsonian Air & Space Museum, Washington DC,

Aug 2024

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- 2020 Research Assistant, CU Boulder & Fiske Planetarium,
- 2019 '21 Adjunct Instructor, Wake Tech Community College, Raleigh, NC,
 - 2019 NSF REU Physics Fellow, CU Boulder / JILA,
- 2018 '19 Undergraduate Researcher, UNC Greensboro,
- 2017 '19 Planetarium Presenter, Morehead Planetarium, Chapel Hill, NC,
- 2017 '18 High School Math Teacher, Leesville Rd. High School, Raleigh, NC,
 - 2018 High School Summer Camp Asst. Director, UNC Chapel Hill,
- 2014 '16 Undergraduate Researcher, UNC Asheville,

Awards,	Fellowships, & Grants	
2024	NSF INTERN in Science Communication, Adler Planetarium / Zooniverse Dean's Prestigious Fellowship, University of Texas Austin	\$ 25,578
	(PI) McDonald Observatory EPO Grant (Led outreach video development).	\$ 3,500
2023	(CO-I) NASA Citizen Science Seed Funding Grant, NASA OSTEM Dean's Prestigious Fellowship, University of Texas Austin	\$ 160,009
2022	NSF Graduate Research Fellow, National Science Foundation Dean's Prestigious Fellowship, University of Texas Austin Honored Scholar, Informal Science Education Association of Texas	\$ 147,000
2020 2019 2019	Community Impact Award (for online astronomy curricula), CU Boulder Research and Creativity Award, UNC Greensboro Sigma Pi Sigma National Physics Honor Society, UNC Greensboro	\$ 7,000 \$ 3,000
2017	Early-Career Ambassador, American Astronomical Society	
2016	Highest Distinction in Mathematics , University of North Carolina Asheville	

Publications

→NASA ADS Link - Click Here ←

FIRST AUTHOR PUBLICATIONS

- House, L.R., Gebhardt, K., Finkelstein, K., Cooper E.M., Davis, D., Farrow, D., Schneider, D. Sept. 2024. ApJ, Participatory Science and Machine Learning Applied to Millions of Sources in the Hobby-Eberly Telescope Dark Energy Experiment. arXiv:2409.08359
- 2. House, L.R., Aug 2024. A Cosmic Perspective. Science Magazine. DOI: 10.1126/science.ads2163
- 3. **House, L.R.**, Gebhardt, K., Finkelstein, K., Cooper E.M., Davis, D., Ciardullo, R., Farrow, D., Finkelstein, S., Gronwall, C., Jeong, D. 2023. ApJ, 82: 950. *Using Dark Energy Explorers and Machine Learning to Enhance the Hobby-Eberly Telescope Dark Energy Experiment*. DOI 10.3847/1538-4357/accdd0
- 4. **House, L.R.**, Cooper, O.R., Finkelstein, K., Finkelstein, S. 2024, PhysRev Education Journal (In-Prep). *Impact of Climate Change Intervention within Introductory Astronomy Courses*.

CO-AUTHORED PUBLICATIONS

- Weiss L. H., Davis D., Gebhardt K., Gazagnes S., Mirza Khanlari M., Mentuch Cooper E., Chisholm J., Berg, D., Bowman, W.P., Byrohl, C., Ciardullo, R., Maximilian, F., Farrow, D., Gronwall, C., Hill, G., House, L.R., Jeong, D. Khoraminezhad, H., Kollatschny, W., Komatsu, E., Niemeyer, M., Saito, S., Schneider, D.P., Zeimann, G.R., 2024, ApJ, 962, 102. Absorption Troughs of Lyman Alpha Emitters in HETDEX. doi:10.3847/1538-4357/ad1b51
- 2. Farrow, D. Chavez-Ortiz, O.A., Leung, G.C.K., Finkelstein, Steven L., Davis, D., **House, L.R.**, Jeong, D. Khoraminezhad, H., Kollatschny, W., Komatsu, E., Niemeyer, M., Saito, S., Schneider, D.P., Zeimann, G.R., 2024, ApJ. *The Ly\alpha Dependence on Nebular Properties from the HETDEX and MOSDEF Surveys*.

^{**} denotes paper led by students under my supervision

- 3. Liu, C., Chen, X., Er, X., Zeimann, G., Vinkó, J., Wheeler, C., Cooper, E.M., Davis, D., Farrow, D., Gebhardt, K., Guo, K., Hill, G., **House, L.R.**, Kollatschny, W., Kong, F., Kumar, B., Liu, X., Tuttle, S., Endl, M., Duke, P., Cochran, W., Zhang, J., and Liu, X., 2023, ApJL, 958, L37. *The Preexplosion Environments and the Progenitor of SN 2023ixf from the Hobby–Eberly Telescope Dark Energy Experiment*. DOI 10.3847/2041-8213/ad0da8
- 4. Davis, D., Gebhardt, K., et al., including **House, L.R.** 2023. ApJ. 954, 209. *HETDEX Public Source Catalog 1—Stacking 50,000 Lyman Alpha Emitters*. DOI 10.3847/1538-4357/ace4c2
- 5. Cooper, E., Gebhardt, K, Davis, D., et al., including **House, L.R.** 2023, ApJ. 943, 177. *HETDEX Public Source Catalog 1: 220 K Sources Including Over 50 K Lya Emitters from an Untargeted Wide-area Spectroscopic Survey*. DOI 10.3847/1538-4357/aca962
- 6. Davis, D., Gebhardt, K., et al., including **House**, **L.R.** 2023, ApJ. *The HETDEX Survey Emission-line Exploration and Source Classification*. DOI 10.3847/1538-4357/acb0ca
- 7. Liu, C., Gebhardt, K., et al., including **House, L.R.** 2022, ApJ 940, 40. *The Active Galactic Nuclei in the Hobby–Eberly Telescope Dark Energy Experiment Survey (HETDEX). III. A Red Quasar with Extremely High Equivalent Widths Showing Powerful Outflows*. DOI 10.3847/1538-4357/ac9af2
- 8. Liu, C., Gebhardt, K., et al., including **House, L.R.** 2022, ApJ 935, 132. *The Active Galactic Nuclei in the Hobby–Eberly Telescope Dark Energy Experiment Survey (HETDEX). II. Luminosity Function*. DOI 10.3847/1538-4357/ac8054
- 9. Liu, C., Gebhardt, K., et al., including **House, L.R.** 2022, ApJ 261, 24. *The Active Galactic Nuclei in the Hobby–Eberly Telescope Dark Energy Experiment Survey (HETDEX). I. Sample Selection.* DOI 10.3847/1538-4365/ac6ba6
- 10. Gebhardt, K., and HETDEX Collaboration, including **House, L.R.** 2021, ApJ 923, 217. *The Hobby–Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections*. DOI 10.3847/1538-4357/ac2e03

WHITE PAPERS

1. Lau, A., et al., including **House, L.R.** A Call to Action: Informal Education Is Essential to Physics. APS JNIPER Summit, In Prep - White Paper.

CONFERENCE PROCEEDINGS

- 1. Mohamed, S., et al., including **House**, **L.R.**, Aug 2024. *FM7: New horizons at the interface between computational astrophysics and big data*. IAU Conference Proceedings.
- 2. ** Saucedo, J., **House, L.R.**, Aug 2024. *Astronomy Across the Spectrum: Education & Outreach Everywhere, All at Once*. Astronomy Society of the Pacific. Conference Proceedings.

SELECTED SCIENCE WRITING

- 1. **House, L.R. Astronomy Magazine.** What we do and don't know about dark energy. Published: Sept 5, 2024. Read Here.
- 2. **House, L.R. Astronomy Magazine.** *Dark Energy Explorers: The participatory science project helping classify millions of galaxies for HETDEX.* Commissioned: Sept. 20, 2024. Read Here.
- 3. **House, L.R. Astronomy Magazine.** *Machine Learning and Artificial Intelligence.* Commissioned: Oct 3, 2024. Read Here.
- 4. **House, L.R. AAS Education Blog.** Dark Energy Explorers: Using Citizen Science to Enhance the Hobby-Eberly Telescope Dark Energy Experiment. June 24, 2022. Read Here.

INVITED SCIENCE TALKS

Jul 2024	Adler Planetarium, Research Seminar, Invited Talk	Chicago, IL
May 2024	CIERA - Northwestern University. Observational Seminar, Invited Talk	Evanstn., IL
May 2024	HETDEX Science Meeting, Invited Talk	PennState
Apr 2024	SW Institute For Astronomy Research at Yunnan University, Invited Talk	Cp.Town, SA
Apr 2024	McDonald Dark Skies Week, Invited Talk	Ft Davis, TX
May 2024	NASA AI Panel, CitSci Conference, Invited Panelist	Tempe, AZ
Feb 2024	UH Hilo & Keck Observatory, Invited Facilitator	Waimea, HI
Feb 2023	UT Austin Graduate Recruitment, Invited Panelist	Austin, TX
Nov 2022	PER Seminar, CU Boulder, Invited Talk	Boulder, CO
Oct 2021	UT Austin Board of Visitors Meeting, Invited Talk	Ft Davis, TX

INVITED PUBLIC OUTREACH TALKS

Jul 2024	Zooniverse, NSF INTERN Science Communication, Invited Talk	Chicago, IL
Jul 2024	University of Utah, Astronomy Club, Invited Talk	Virtual
Jul 2024	Yerkes Observatory, Summer Scientist Series, Invited Talk	Will. Bay, WI
Apr 2024	UT Austin Board of Visitors - Eclipse Talk , Invited Talk	Austin, TX
Jun 2023	McDonald Obs. Teacher Workshop: Galaxies&Cosmology, Invited Talk	Ft Davis, TX
Jun 2023	McDonald Obs. Teachers Workshop: Lights, Color, & Optics, Invited Talk	Ft Davis, TX
Apr 2023	McDonald Observatory Star Party, Invited Panelist	Ft Davis, TX
Jul 2021	Smithsonian Air and Space Museum, Invited Talk	Wash, DC
Jun 2021	McDonald Obs. Teachers Workshop: Galaxies&Cosmology, Invited Talk	Virtual
Feb 2021	UT Austin EXES Teacher Associate Group, Invited Talk	Virtual

CONTRIBUTED SCIENCE TALKS AND POSTERS

Oct 2024	Rubin LSST DESC Sprint Week, Kavli Institute, Conference Attendee	Virtual
Oct 2024	Scientific Machine Learning - Oden Institute, Contributed Talk	Austin, TX
Aug 2024	IAU, Contributed Talk - Using Zooniverse for AI and ML	Cp.Town, SA
Aug 2024	IAU, Contributed Poster - Zooniverse Education	Cp.Town, SA
Aug 2024	IAU, Contributed Poster - Zooniverse DEI	Cp.Town, SA
Aug 2024	IAU, Contributed Poster - Dark Energy Explorers	Cp.Town, SA
Jun 2024	KICP - 20th Anniversary Meeting, Conference Attendee	Chicago, IL
Jun 2024	APS JUNIPER Summit, Conference Attendee	Boulder, CO
Jul 2024	Diversifying Voices in STEM, Contributed Talk	Chicago, IL
Feb 2024	UT Austin Astronomy Dept, Extragalactic Seminar, Contributed Talk	Austin, TX
Nov 2023	Conference for Association of Science Teachers , Contributed Talk	Houston, TX
Oct 2023	American Museum of Natural History, lunch seminar, Contributed Talk	NYC, NY
Oct 2023	(Dot) .Astronomy, CCA Flatiron, Conference Attendee	NYC, NY
Oct 2023	BashFest, Conference Attendee	Austin, TX

May 2023	CitSci (for AI and ML) Conference, Contributed Talk		Tempe, AZ
Feb 2023	UT Austin Astronomy Dept, Extragalactic Seminar, Contributed	d Talk	Austin, TX
Jan 2023	American Astronomical Society 234, Contributed Talk		Seattle, WA
July 2022	American Assoc. of Physics Teachers Conference, Contributed	Poster	GRapids, MI
July 2022	Physics Education Research Conference, Contributed Poster		GRapids, MI
Apr 2022	UT Austin Astronomy Dept, Cosmology Seminar , Contributed		Austin, TX
Feb 2022	Informal Science Education Association Conference, Contribut	ted Talk	Houston, TX
Feb 2022	AAAS Communicating Science, Conference Attendee		Virtual
May 2021	CitSci Conference, Conference Attendee		Virtual
May 2021	International Astronomical Union 367, Conference Attendee		Virtual
Apr 2022	UT Austin Astronomy Dept, ExGal Seminar, Contributed Talk	_	Austin, TX
Jan 2021	Informal Science Education Association Conference, Contribut	ted Poster	Virtual
July 2021	Physics Education Research Conference, Contributed Poster		Virtual
July 2019	Physics Education Research Conference, Contributed Poster		Provo, UT
Jan 2019	American Astronomical Society 233, Contributed Poster		Seattle, WA
Jan 2019	Conference for Undergraduate Women in Physics, Contributed	l Poster	Willsbg, VA
Jan 2018	American Astronomical Society 231, Conference Attendee		Wash, DC
Professi	ONAL DEVELOPMENT PRESENTATIONS		
	Congressional Visit Day, Invited Talk		Wash, DC
Jan 2024 Jan 2024	APS Leadership Meeting, Invited Facilitator		•
			Wash, DC
Sep 2023	Undergrad Prospective Students Day, Invited Panelist		Austin, TX
Sep 2023	NSF GRFP Workshop, Invited Panelist		Austin, TX
Sep 2023	NSF GRFP Workshop, Invited Talk		Austin, TX
Dec 2022	American Physical Society JNIPER Program, Invited Talk		Virtual
Sep 2022	NSF GRFP Workshop, Invited Talk		Austin, TX
Teachin	g Experience		
	urer, AST 301		Austin, TX
	A 200-STUDENT INTRODUCTORY ASTRONOMY COURSE		Fall 2022
	er, Science Sprints		Austin, TX
	DEVELOPED A HACK-A-THON STYLE EVENT FOR 400+	Fall o	1020 Dragant
UNDERGRAI Energy Exi	DUATES TO GAIN RESEARCH EXPERIENCE AS A PART OF DARK	FUII 2	1020 - Present
	structor, MAT 171		Raleigh, NC
	COMMUNITY COLLEGE: A 30-STUDENT PRE-CALCULUS ALGEBRA	Snr 2021	Fall 2020, Spr
COURSE	COMMUNITY COLLEGE. A 30-310 DENT FRE-CALCULUS ALGEBRA	3pi 2021, i	2020, Spr 2020
Adjunct In	structor, MAT 071		Raleigh, NC
Wake Tech	COMMUNITY COLLEGE: : A 15-STUDENT SUPPLEMENTAL COURSE	Spr 2021, i	Fall 2020, Spr
TO HELP BU	ILD ACADEMIC HABITS & FOSTER A GROWTH-MINDSET IN MATH		2020
Teaching A	assistant, AST 235	Gra	eensboro, NC
_	ISBORO: A 150-STUDENT INTRODUCTORY ASTRONOMY COURSE		2019, Fall 2019
		•	Asheville, NC
_	Assistant, BIO 328 YILLE: A 40-STUDENT HUMAN ANATOMY LAB		Fall 2014
OINC ASHEV	ILLE, A TO STODENT HOMAN ANATOMI LAD		1 411 2014

Mentoring_____

Research Jose Saucedo, HS Teacher at Austin ISD, Dark Energy Explorers EPO

Mentor Isaiah Pipkin, Team-Up Award, TAURUS Scholar, Dark Energy Explorers

Mike Troung, Machine learning implimentation

, Mentored undergraduates for the Dark Energy Explorers project. Held and led weekly group meetings and research projects for undergraduates who have presented posters as multiple conferences including AAS.

Informal Hera Weigand, Current UT Austin grad student

Mentor Abriana Joy Himantog, Current UW Madison grad student

Delaney White, AmeriCops Education Award and current HS teacher , Mentored undergraduates through their time at UT Austin and as part of the NSF REU program. Advised them on courses and research, while providing them resources for being successful in astronomy and working towards and applying for grad school.

Telescope Observing Experience _____

Feb 2024	Keck Observatory, MOSFIRE	Waimea, HI
May 2023	Harlan J. Smith Telescope, 2.7m, McDonald Observatory	Ft Davis, TX
May 2023	Otto Struve Telescope, 2.1m, McDonald Observatory	Ft Davis, TX
May 2023	0.8m Telescope , McDonald Observatory	Ft Davis, TX

Press & Media Appearances - Me_____

teal color denotes clickable link to media

GUEST APPEARANCE FOR WHITE HOUSE OSTP - INNOVATION AWARD

'NASA Partner Zooniverse Receives White House Open Science Award'

May 2024

FEATURED ON THE ADLER PLANETARIUM SOCIAL MEDIA: X, TIKTOK, YOUTUBE Aug 2024 'Ask An Astronomer: Lindsay House'

FEATURED ON NASA SOCIAL MEDIA - DARK ENERGY EXPLAINED

@DoNASAScience

Apr 2024

FEATURED IN APS News
'Careers and Education Column'

GUEST ON QUANTUM FEEDBACK LOOP PODCAST, SPOTIFY, APPLE PODCASTS

Aug 2023

FEATURED ON THE ADLER PLANETARIUM SOCIAL MEDIA: X, TIKTOK, YOUTUBE

Jan 2024

'Explaining Dark Matter VS Dark Energy'

'Lindsay House and Looking back over 9 billion years'

FEATURED IN GIANT MAGELLAN TELESCOPE CAMPAIGN

'GMT World Changing Gifts'

Mar 2021

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LAST UPDATED: SEPT 2024 LINDSAY R. HOUSE · CURRICULUM VITAE

Press & Media - Dark Energy Explorersteal color denotes clickable link to press release	
FEATURED AS 1 OF 19 NASA CITIZEN SCIENCE PROJECTS	
FEATURED IN STARDATE MAGAZINE 'Signing up for Science' Nov 2023 I	Issue
FEATURE IN THE QUANTUM RECORD 'Dark Energy Explorers: A Citizen Science Project Looks Over 9 Billion Years'	2023
FEATURED AS ONE OF TEXAS STANDARDS 'TEN FAVORITE STORIES OF THE YEAR'	2022
FEATURED ON SCRIPPS News NATIONWIDE (60+ STATIONS) 'Researchers asking for public's help to create 'map of the universe'	2022
FEATURED ON NATIONAL PUBLIC RADIO (NPR) 'Swipe Right to identify a New Galaxy'	2023
FEATURED ON CBS News 'Swipe Right to identify a New Galaxy'	2022
FEATURED ON NBC News 'Swipe Right to identify a New Galaxy'	2022
SPEAKER FOR UT AUSTIN CNS FUNDRAISING CAMPAIGN FOR THE GIANT MAEGELLAN TELESCOPE 'Swipe Right to identify a New Galaxy'	2022
PRESS RELEASE ISSUED BY UT AUSTIN COLLEGE OF NATURAL SCIENCE 'Amateur Scientists Have Helped Astronomers Identify Nearly a Quarter Million Galaxies'	2022
FEATURED ON PHYS.ORG 'Amateur scientists have helped astronomers identify nearly a quarter-million galaxies so far'	2022
Press Release Issued by McDonald Observatory 'You Can Help Decode the Universe!' April	2021
FEATURED IN STARDATE MAGAZINE Dark Energy Explorers: Helping HETDEX Classify Galaxies Nov 2021 I	Issue
Collaborations	
Vera Rubin Observatory, Inform. and Statistics Science Collaboration	LSST LSST TDEX
Professional Leadership & Service	
Leadership Roles	

LAST UPDATED: SEPT 2024

NSF INTERNship in Science Communication

ADLER PLANETARIUM & ZOONIVERSE

Summer 2024

Awarded supplemental NSF funding to grow a non-academic skill set. Spent 4 months acting as a astronomy consultant, for example working with authors of children's books who want to incorporate real science into their books. I also wrote, filmed, edited educational videos for Zooniverse and Adler that will be used by teachers and for their social media.

APS Executive Committee on Informing the Public

ELECTED MEMBER - 3 YEAR TERM

2024-'27

Nominated by APS leadership to serve a three-year term on the CIP executive committee, where I attended the APS leadership meeting and lead workshops for other APS leaders on how to inform the public. Subcomittees: White paper, Science Com Training.

U.S. Congressional Visit Day

SELECTED PRESENTER

Jan 2024

Selected to represent APS to advocate for science policy to representatives in Congress in Wash. DC.

APS Forum for Outreach and Engaging the Public

ELECTED MEMBER - 2 YEAR TERM

2023-'25

Served on the FOEP for a two-year term, carrying out the goals of APS on outreach for the public through mini-grants, workshops, fellowship awards, and the annual APS meeting. Subcommittees: Fellowship Committee, Nominating Committee

Host, Astronomy on Tap

UT AUSTIN - ONE OF THE LARGEST BRANCHES

2023-2025

Co-hosted monthly science shows of 250+ attendees

Intern, Smithsonian National Air and Space Museum

ASTRONOMY EDUCATION AND VISITOR SERVICES

Summer 2022

Trained as a program coordinator for education and visitor services department. Managed, scheduled, and briefed 800+ volunteer docents. Created hands-on astronomy curriculum that is used in the museum discovery carts today. Helped to organize large events like Tour of the Universe on the National Mall and implemented the curriculum with thousands of visitors

NASA Citizen Science Leadership Series

30+ WORKSHOPS 2022-2025

Attended monthly leadership workshops for all NASA Citizen Science Co-l's. Worked together to support each other and address issues in the field such as how to increase female representation in participatory science.

Workshop Facilitator, McDonald Observatory Teachers workshops

6 WORKSHOPS TOTAL- 3 EACH SUMMER

Summer 2021, 2023

Co-led workshops at McDonald Observatory for middle and high school teachers across the country. Provided and taught interactive hands-on lessons for high level concepts like dark energy.

Graduate Student Representative

UT AUSTIN ASTRONOMY DEPARTMENT

Summer 2021, 2023

Served as grad student liaison, attended faculty meetings, hosted town halls, served on graduate admissions committee

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Co-Founder, Astro Graduate Congress

NATIONAL ORGANIZATION TO BRING TOGETHER ASTRONOMY DEPARTMENTS

Worked with 4 other members to start a group of graduate students who represent every astronomy department across the county. Created and implemented surveys that were used to inform task forces such as - AAS Education policy. This was born from Dot.Astronomy Conference.

Machine Learning Summer School

ODEN INSTITUTE FOR COMPUTATIONAL ENGINEERING AND SCIENCES

Summer 2021

2 week long summer school to learn innovative approaches and algorithms in AI and ML. Hack-a-thon style final project.

APS JNIPER Summit Invited Attendee

JOINT NETWORK FOR INFORMAL PHYSICS EDUCATION RESEARCHERS

Summer 2024

Invited to attend a summit for leaders in informal education. The goal was to bring informal education to the core to physics and astronomy. This summit resulted in White Paper- Call to action.

REFEREES & REVIEW PANELS

American Physical Society - Review Panel Citizen Science Conference - Referee Capital of Texas Undergraduate Research Forum -Reviewer & Judge

PERSONAL WEBSITE

DARK ENERGY EXPLORERS (AT A GLANCE)

DARK ENERGY EXPLORERS (APP DOWNLOAD)





