

Gregg Hallinan

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Education

B.Sc. Experimental Physics: National University of Ireland, Galway Oct. 2002

Ph.D: National University of Ireland, Galway; Thesis Advisor: Aaron Golden Oct. 2009
The Periodic and Pulsing Radio Emission from Very Low Mass Stars and Brown Dwarfs

Academic Positions

Director, Owens Valley Radio Observatory	2019-present
Professor, California Institute of Technology	2018-present
Assistant Professor, California Institute of Technology	2012-2018
NRAO Jansky Fellow, University of California at Berkeley	2010-2011

Research Interests

- Magnetic activity in exoplanets, brown dwarfs and stars
- The electromagnetic counterparts of gravitational wave events
- The transient radio sky
- The search for low-mass KBOs via stellar occultation

Honors and Awards

Jansky Fellowship	2010
Alfred P. Sloan Foundation, Sloan Research Fellowship Award	2015
Research Science Corporation Scialog Fellow	2016
NSF Career Award	2017
William Gordon Lecture (Cornell)	2018
New Horizons in Physics Prize	2022

Select Funding Awards as PI

NSF AST-1836018: “The DSA: A Fast Radio Burst Localization Machine” - \$5,299,901
NSF AST-1828784: “MRI: Development of the OVRO-LWA - A Low Frequency Radio Interferometric All-Sky Telescope” - \$2,178,941
NSF AST-1654815: “CAREER: Monitoring for Signs of Magnetospheres Around Extrasolar Planets” - \$725,808
NSF AST- 1911199 (as co-PI): “WoU-MMA: Prompt and Afterglow Radio Signals from Neutron Star Mergers” - \$528,321
NSF AST- 1311098: “The Starburst Program” - \$553,411
NSF AST- 1212226: “Hot Jupiter Detection Experiment with the LWA” - \$166,930
BSF-2018154: “Characterizing the Dynamic Radio Sky via the VLA All Sky Survey” - \$120,000
Schmidt Futures: “The Radio Camera Initiative” - \$629,307
Mt. Cuba Foundation: “LWA Long Baselines” - \$99,356

Graduate Students

Kunal Mooley	(Jansky Fellow at NRAO/Caltech)
Sebastian Pineda	(Postdoc at U. Colorado)
Jacqueline Villadsen	(Faculty at St. Mary's College)
Melodie Kao	(51 Peg b Fellow at UC Santa Cruz)
Ryan Monroe (EE)	(Start-up)
Michael Eastwood	(Google)
Marin Anderson	(NPP Fellow at NASA JPL)
Dillon Dong	(Year 5)
Kathryn Plant	(Year 4)
Qicheng Zhang	(Year 4)
Yuping Huang	(Year 3)
Ivey Davis	(Year 1)
Kiran Shila (EE)	(Year 1)
Devin Cody (EE)	(MSc in EE; JPL)

Postdoctoral Scholars

Stephen Bourke	(Chalmers)
Leon Harding	(Virginia Tech)
Navtej Saini	(NASA JPL)
Harish Vedantham	(ASTRON)
Vikram Ravi	(Caltech)
Kunal Mooley	(current)
Ruby Byrne	(current)
Vinand Prayag	(current)

Professional Service

- Chairperson of the User Committee of the NRAO Observatory (2013-2014)
- Member of the User Committee of the Arecibo Observatory
- Member of the Keck and Palomar TAC
- Member of the NRAO Science Review Panel
- Member of the VLA Sky Survey Survey Science Group Board
- Member Science Advisory Council for the Next-Generation VLA (ngVLA)
- Member of the Arecibo Annual Review Panel
- Reviewer for NSF (multiple panels)
- Referee for *Nature*, *The Astrophysical Journal*, *Monthly Notices of the Royal Astronomical Society*, *Astronomy and Astrophysics*, *Physics of Plasmas*

Teaching & Internal Committees

Ay121	Radiative Processes in Astrophysics
Ay122b	Radio Astronomy Instrumentation and Techniques
Ay105	Optical Astronomy Instrumentation Lab
Ay1	The Evolving Universe
Ay20	Basic Astronomy and the Galaxy
Ay30	Introduction to Modern Research
Ay 111	Introduction to Current Astrophysics Research
Ay 141	Research Conference in Astronomy

Graduate Admissions Committee: 2012/2013, 2013/2014, 2014/2015, 2015/2016 (Chair), 2019/2020

Colloquium Committee: 2013/2014, 2014/2015, 2016/2017, 2017/2018, 2019/2020, 2020/2021

Foreign students and scholars: 2015 – 2018

Select Invited Talks

Invited Talk – 6th US/China Science and Technology Workshop	June 2021
Colloquium – PSU	February 2021
Invited Talk – ExoPAG 23	January 2021
Invited Talk – Keck Institute for Space Studies Lectures	September 2021
Colloquium – DRAO	February 2020
Colloquium – UCLA	January 2020
Invited Talk – The Space Astrophysics Landscape for the 2020s and Beyond	April 2019
Invited Talk – URSI, Boulder	January 2019
Colloquium – McGill	November 2018
Colloquium – OSU	November 2018
Colloquium – Princeton	October 2018
Gordon Lecture – Cornell	September 2018
Colloquium – NRAO	September 2018
Colloquium – Amsterdam	September 2018
Colloquium – Stanford	September 2018
Colloquium – ASU	August 2018
Invited review – Astrophysical Frontiers, Portland	June 2018
Colloquium – Caltech	April 2018
Invited Talk – APS, Columbus	April 2018
Colloquium – University of Toronto	March 2018
Invited Talk – The OCSCT- Caltech Lecture Series – JPL	March 2018
Invited Talk – Conference on The Transient Universe, Singapore	February 2018
Invited Talk – NANOGrav 2020 PTAT Planning Meeting	January 2018
Invited Talk – KITP Conference: GW170817	December 2017
Colloquium – Northwestern University	November 2017
Invited review – Radio Stars from kHz to THz, MIT Haystack	November 2017
Seminar – CAJAGWR, Caltech	November 2017
Invited Talk – Rapid Response Workshop on GW170817, Columbia	October 2017
Colloquium – University of Chicago	October 2017
Colloquium – MIT Astronomy	September 2017
Colloquium – HUJI	June 2017
Colloquium – Weizmann Institute	June 2017
Colloquium – BGU	June 2017
Invited Talk – Workshop on Fast Radio Bursts, McGill University	June 2017
Invited Talk – Star-Planet Interactions Workshop, Rice University	May 2017
Colloquium – USU	April 2017
Colloquium – Engineering Honors Colloquium	November 2016
Invited Talk – Exoplanetary Space Weather Habitability, New Orleans	November 2016
Invited Talk – CORF meeting, Caltech	October 2016
Invited Talk – IOP Webinar	September 2016
Invited Talk – KITP Conference: LIGO’s Black Holes	August 2016
Invited Talk – Sackler Conference, Harvard	May 2016
Colloquium – SDSU	April 2016
Colloquium – NJIT	April 2016
Colloquium – Carnegie	March 2016
Invited talk – AAS Plenary talk, Florida	January 2016
Invited Talk – EMCCD Workshop, Caltech	July 2015
Colloquium – UNM	April 2015
Colloquium – MIT (EAPS)	April 2015
Invited Talk – ngVLA Meeting, Pasadena	April 2015
Colloquium – Oxford	December 2014
Colloquium – ASIAA	November 2014

Colloquium – NCU	November 2014
Colloquium – NTHU	November 2014
Colloquium – U. Colorado	October 2014
Seminar – JPL	October 2014
Seminar – LCOGT	September 2014
Colloquium – UCLA(EPSS)	June 2014
Invited Talk – EWASS	April 2014
Colloquium – Berkeley	March 2014
Colloquium – JPL	March 2014
Colloquium – Curtin University	September 2013
Invited Review – Radio Stars, MIT Haystack	October 2012
Colloquium – UCLA(Astronomy)	October 2012
Seminar – CASS, UCSD	November 2011
Invited Talk – Berkeley RAL	April 2011
Colloquium – NRAO, Charlottesville	April 2011
Invited Talk – NRAO Postdoc Symposium	April 2011
Invited Talk – NM Symposium, Socorro	November 2010
Invited Plenary Talk – Cool Stars XVI, Seattle	August 2010
Invited Talk – Cosmic magnetism, Kiama	June 2010
Invited Talk – NAM UK	April 2010
Invited Talk – The 8th International e-VLBI Workshop	June 2009
Colloquium – Arecibo	June 2009
Colloquium – U. Sheffield	May 2009
Invited Talk – MagIcS meeting	April 2009
Colloquium – U. Leicester	February 2009
Colloquium – Arecibo	May 2008
Colloquium – NCRA, Pune	February 2008
Colloquium – IIA, Bangalore	February 2008
Colloquium – St. Andrews	July 2007
Colloquium – Leiden	June 2007