

Enrique Lopez Rodriguez

Kavli Institute for Particle Astrophysics & Cosmology (KIPAC)
Stanford University
Stanford, CA 94305, USA
e-mail: elopezrodriguez@stanford.edu
website: <https://enloro.github.io/website>
SOFIA legacy program (SALSA): <http://galmagfields.com/>

Appointments	Associate Professor University of South Carolina, SC, USA	Aug. 2024 - Present
	Senior Research Scientist KIPAC at Stanford University, CA, USA	Mar. 2021 - Apr. 2025
	Scientist SOFIA Science Center, Moffett Field, CA, USA	Jan. 2018 - Mar. 2021
	Visiting Scientist SOFIA Science Center, Moffett Field, CA, USA	Aug. 2016 - Dec. 2017
	Research Fellow University of Texas at Austin, TX, USA McDonald Observatory, Austin, TX, USA	Feb. 2016 - Aug. 2017
	Assistant Professor of Research University of Texas at San Antonio, TX, USA	Jun. 2013 - Jan. 2016
Education	Ph.D. in Astronomy University of Florida, FL, USA	May 2013
	M.Sc. in Astrophysics University of La Laguna, Spain Instituto de Astrofísica de Canarias (IAC), Spain	Jun. 2008
	B.Sc. in Physics University of La Laguna, Spain	Dec. 2007
Summary	Funding: Total of \$3.0M in external awards as PI since 2014. (~ \$1.0M since 2024 at USC). Publications: 89 refereed manuscripts published in or submitted to peer-reviewed journals <ul style="list-style-type: none">- 22 first-author peer-reviewed manuscripts, H-index=25, (<i>ApJ</i>, <i>MNRAS</i>, <i>Nature Astronomy</i>).- 3 decadal white papers, 7 leading science cases included in the white papers of TMT (2015), <i>Origins</i> (2020), <i>PRIMA</i> (2022, 2023), <i>GMT</i> (2014, 2023), <i>AtLAST</i> (2023), <i>ALMA</i> (2024).- Invited to be a referee for <i>Nature Astronomy</i>, <i>Astrophysical Journal</i>, <i>Monthly Notices of the Royal Astronomical Society</i>, <i>Astrophysics and Space Science</i>, and <i>Galaxies</i>. Advising: 6 graduate students, 2 post-docs, and 13 undergraduate students. Project management: PI of the SOFIA Legacy Program with 155h of observing time. <ul style="list-style-type: none">- Lead: international team of 20+ experts to build the most comprehensive view of the magnetic fields in the multi-phase ISM of nearby galaxies and deliver high-level data and code to the community. Teaching: 4 undergraduate-level courses. 12 undergraduate level courses as GA and TA. Observing experience: +1000h of on-site imaging, spectroscopic, imaging-polarimetric, and spectro-polarimetric observations in 2-10m class telescopes from optical to far-infrared wavelength. Diversity and Inclusion: I'm a Hispanic, first-generation college student from a low-income and non-traditional background. <ul style="list-style-type: none">- Member of the Diversity and Inclusion Science Committee review panel for US ELT program.- Member of the team leading the efforts to the development and implementation of new strategies to improve the environment and assessment for the introductory astronomy classes, Physics 15/16/17, at the Department of Physics and Astronomy at Stanford University as part of the Inclusion, Diversity, Equity and Access in a Learning environment (IDEAL) at Stanford.- Member of the Postdoctoral committee mentorship at KIPAC/Stanford.- Core Member of the Post-baccalaureate Program at KIPAC/Stanford.- Mentoring formally incarcerated students during the Summer quarters at KIPAC/Stanford.- Lead 'KIPAC en Español' and organizer of Noches Astronomicas for the Hispanic community.	

Awards

2025 JWST Cycle 4

7802: *Dust in shocks: the missing link in AGN feedback* (PI: Haidar, H., US-PI: Lopez-Rodriguez, E. \$132,367)

2024 ALMA Cycle 11

Revealing the B-fields at ~800 Myr after the Big Bang (PI: Lopez-Rodriguez, E., Grade B)

Tracing the B-fields in the central parsec of the Circinus galaxy using water masers (PI: Lopez-Rodriguez, E., Grade B)

2024 JWST Cycle 3

4611: *Revealing the central extended emission of Circinus with interferometric mode* (PI: Lopez-Rodriguez, E. \$139,980)

5017: *AGN and their outflows: probing fragmentation and survival of polycyclic aromatic hydrocarbons* (PI: Garcia-Berete, I; US-PI: Lopez-Rodriguez, E., \$93,238)

2023 NASA Astrophysics Decadal Survey Precursor Science \$839,653 (PI: Lopez-Rodriguez)

2023 JWST Cycle 2

4065: *Dusty Torus, Molecular Gas, Outflows, and Binary Nucleus in the Powerful Nearby Quasar Cygnus A* (PI: Ogle, P.)

4225: *First spatially resolved characterization of the warm molecular torus in the Circinus galaxy* (PI: Izumi, T.)

2023 ALMA Cycle 10

Revealing the B-fields at ~800 Myr after the Big Bang (PI: Lopez-Rodriguez, E., Grade C)

Unveiling the origin of the mm continuum in radio-quiet AGN with ALMA polarimetric observations (PI: Ricci, C; Grade B)

A 2 pc view of the magnetic field structure in the cold ISM at M83's center (PI: Paladino, R., Grade C)

How important are magnetic fields in early disk galaxies? (PI: Chen J., Grade B)

A multi-phase view of the gas cycle in the innermost regions of nearby AGN (PI: Garcia-Burillo, G., Grade B)

Unveiling the magnetic field structure in the nuclei of the Arp220 galaxy merger (PI: Girard, J., Grade B)

2022 ALMA Student Observing support (SOS) program \$22,228

2022 ALMA Cycle 9

Revealing the magnetic field towards the core of the circinus galaxy (PI: Lopez-Rodriguez, E., Grade A)

Tracing the B-fields in the central parsec of the Circinus galaxy using water masers (PI: Lopez-Rodriguez, E., Grade B)

Anatomy of molecular tori of Seyfert galaxies (PI: Garcia-Burillo, S., Grade A)

2021 Fred Kavli Plenary Lecture at AAS 238th

2021 Best SOFIA paper of the year (Lopez-Rodriguez 2021, Nature Astronomy, 5, 604)

2021 JWST Cycle 1 (co-I as member of GATOS)

Closing in on the launching sites of AGN outflows (PI: Shimizu, T.)

Dust in the wind: testing a new paradigm for the nature of AGN feedback (PI: Rosario, D.)

2021 SOFIA Cycle 9 Research Grant, \$253,400 (PI: Lopez-Rodriguez)

Revealing how large-scale magnetic fields arise from the interstellar turbulence through a 0.5 sqdeg. Magnetic field map of the Large Magellanic Cloud.

2021 ALMA Cycle 8 (PI: Lopez-Rodriguez)

Resolving the magnetic field in the torus of NGC 1098 (Grade B)

2019 SOFIA Cycle 8 Legacy Proposal, \$1,027,299 (PI: Lopez-Rodriguez)

Heralding a new era of measuring magnetic fields in galaxies

2019 SOFIA Cycle 8 Research Grant, \$144,600 (PI: Lopez-Rodriguez)

SOFIA/ALMA Survey of Active Galactic Nuclei

2018 SOFIA Cycle 7 Research Grant, \$153,200 (PI: Lopez-Rodriguez)

Probing the Central Engines of Luminous Active Galaxies with Far-Infrared Polarimetry

2018 SOFIA Cycle 7 Research Grant, \$64,100 (PI: Lopez-Rodriguez)

Revealing the Strongest Magnetic Field in a Galaxy with HAWC+: The Case of NGC 1097

2018 Japanese Society for the Promotion of Science (JSPS), Short stay (PI: Lopez-Rodriguez)

The Spatially Resolved Dusty Torus Image at Infrared Wavelengths in the Era of ELTs

2018 ALMA Cycle 6 (PI: Lopez-Rodriguez)

NGC 1068 : ALMA polarimetry band 7 at 0.03" (14h of observing time)

2017 SOFIA Cycle 6 Research Grant, \$76,000 (PI: Lopez-Rodriguez)

Characterizing the Turn-Over of the Clumpy Torus of Active Galactic Nuclei

2016 SOFIA Cycle 5 Research Grant, \$60,000 (PI: Lopez-Rodriguez)

Cygnus A: Highly Polarized Synchrotron pc-scale Jet or a Dusty Scattering Region Around the Core?

2016 ALMA Cycle 4 (PI: Lopez-Rodriguez)

NGC 1068 : ALMA polarimetry band 7 at 0.05" (18h of observing time)

2015 SOFIA Cycle 4 Research Grant, \$63,000 (PI: Lopez-Rodriguez)
AGN Survey to Characterize the Clumpy Torus Using FORCAST
2014 SOFIA Cycle 2 Research Grant, \$9,200 (PI: Lopez-Rodriguez)
Constraining Parameters of the Clumpy Torus of Active Galactic Nuclei Using FORCAST
2011 University of Utrecht Short Stay Fellowship, \$6,360 (PI: Lopez-Rodriguez)
2008-2013 University of Florida Alumni Fellowship
2004-2008 Spanish Ministry of Science and Innovation Scholarship

Fellowships

JSPS Fellowship (PI: Lopez-Rodriguez) Mar. - Apr. 2018
 National Astronomical Observatory of Japan (NAOJ- Mitaka), Japan
 Collaboration with Dr. Imanishi, Masa
 Project: *The Spatially Resolved Dusty Torus Image at Infrared Wavelengths in the Era of ELTs*

University of Tokyo, Japan Apr. - Jun. 2014
 Collaboration with Dr. Osaka, Takasha and Dr. Honda, Mitsuhiko as part of a NSF grant supported by Dr. Chris Packham
 Project: *High-Resolution 25 μ m Imaging Observations of Disks Around Herbig Ae/Be Stars*

Short Stay Research Fellow (PI: Lopez-Rodriguez) Sep. - Dec. 2011
 University of Utrecht, The Netherlands
 Collaboration with Dr. Keller, Christoph and Dr. Canovas, Hector
 Project: *New Frontiers for the Extreme Polarimeter (ExPo): Optics Development and AGN Observations*

Teaching Experience

Instructor
 University of South Carolina, Columbia, SC
 - ASTR201: Introduction to Astronomy: The Dark Universe
 • *Spring 2025*
 - ASTR510: Observational Astronomy
 • *Fall 2025*

University of Texas at San Antonio, TX, USA
 - AST1013: Introduction to Astronomy
 • *Fall 2015 (1 section): 125 students*
 • *3 credits: 1h lecture per class*
 - PHY1611: Physics Laboratory
 • *Fall 2015 (1 section): 24 students*
 • *3 credits: 3h lab per week*

Graduate Assistant
 University of Florida, FL, USA
 - Instructor of AST1022L: Astronomy Laboratory
 • *Fall 2010 (2 sections), Spring 2011 (2 sections), 25 students per section*
 • *1 hour lecture and leading 1 hour laboratory*
 • *Teaching evaluations at: <https://evaluations.ufl.edu/results/instructor.aspx?ik=-54499430>*

Teaching Assistant
 University of Florida, FL, USA
 • *Fall 2009 (4 courses), Spring (4 courses), 110 students per course*

Service & Mentorship

Committees at USC:

- 2025 Astronomy Instructor (chair)
- 2024 Astronomy Faculty Tenure-Track Search (member)
- 2024 Astronomy Committee (chair)
- 2024 Undergraduate outreach and recruiting (member)

Committee Member:

- Dissertation:
 - Cesar Ivan Victoria Ceballos, UNAM-Morelia, 2023
 - Lindsay Fuller, University of Texas at San Antonio, 2017
- Master's Thesis:
 - University of South Carolina, Columbia, SC
 - Karthik Putha 2025
 - Cesar Ivan Victoria-Ceballos, Universidad Autonoma de Mexico in Morelia, Mexico, 2021
 - Kristen DeLine, University of Texas at San Antonio, 2015
- Undergraduate thesis
 - University of South Carolina, Columbia, SC
 - Natalie Truman (Honors thesis) 2025

Mentorship:

- Postdocs:
 - Stanford University
 - Dr. Sergio Martin-Alvarez: current postdoc under my supervision (Sep. 2022. - present)
 - Dr. Lucas Grosset: postdoc under my supervision (2019-2021)
- Graduate students:
 - University of South Carolina
 - Kaniskha Perera (2024 - present)
 - Gillian Leeds (2025 - present)
 - Lylon Sanchez Valido (2025 - present)
 - Akhil Lasrado (Fall 2025; visiting graduate student from Chalmers University)
 - Davide Belfiori (Fall 2024; visiting graduate student from the University of Padova)
 - Stanford University
 - Tara Dacunha: serve as co-advisor with Dr. Clark, Susan, and Dr. Martin-Alvarez, Sergio (2023 - 2025)
 - Jack Dinsmore: served as co-advisor with Dr. Clark, Susan, and Dr. Martin-Alvarez, Sergio (2022)
 - Iñigo Valenzuela Lombrera: served as co-advisor with Dr. Clark, Susan (2021)
 - Kristen DeLine, Lindsay Fuller, Laura McMaster at the University of Texas at San Antonio: served as postdoc advisor for graduate students of Dr. Packham, Christopher (2016-2017)
- Undergraduate students:
 - University of South Carolina
 - Reagan Stanton (Honors College; Fall 2024-present)
 - Liam McCullough (Honors College; Spring 2025 - present)
 - Cathryn Sober (Spring 2024 - present)
 - Preston Lee (Fall 2024 - Spring 2025)
 - Scott Bass (Spring 2025 - present)
 - Sophia Ross (Fall 2024)
 - Stanford University
 - Mark Zhu, Anthony Nuñez, Diego Maglione, Yujina Basnet: serve as co-advisor with Dr. Clark, Susan, Dr. Martin-Alvarez, Sergio, and Dr. Mehrnoosh, Tahani (2023 - 2025)
 - Patrick Tupoumalohi: summer intern as part of the Formerly Incarcerated student program led by Dr. Clark, Susan (2023)
 - Abraar Salem: summer intern as part of the Cal-Bridge program (2022-2023)
 - William Jeffrey Surgent: undergrad at Stanford University served as co-advisor with Dr. Clark, Susan (2022-2023)

Professional Contributions	PRIMA (FIR NASA probe) Science Case (2025)	
	GMT Polarimetry Science Case (2023)	
	PRIMA (FIR NASA probe) Science Case (2023)	
	AtLAST key Science Program (2023)	
	Origins Space Telescope (OST) Science Case	
	<i>Magnetic Fields of Galaxies</i> (PI, ~300h observing program)	
	Flagship Review for SOFIA Science Case	
	<i>Magnetic Fields of Galaxies using HAWC+</i>	
	TMT Science Cases	
	<i>Towards a Dynamical Torus of Active Galactic Nuclei</i> (PI, Key Science Project for TMT/GMT collaboration)	
<i>Panchromatic Characterization of the Dusty Structure Surrounding Active Galaxies</i> (Contribution in the Detailed Science Case 2015)		
GMT Science Case (2014)		
<i>Infrared Polarimetric Studies of Active Galaxies</i> (Contribution to white paper about Polarimetry with the GMT)		
Professional Experience	Co-Chair of the Polarimetric Team for PRIMA (FIR NASA Probe)	2025
	Core member of the Post-baccalaureate Program at KIPAC	2023-2024
	Postdoctoral committee mentorship at KIPAC/Stanford	2022-2024
	Red Team Review Panel for the US ELT Program	2021
	SOFIA Technical review proposals	
	NASA ADAP Member committee	
	Search Committee Member for several staff and management positions at SOFIA	
Observation Experience	10.4-m Gran Telescopio CANARIAS (GTC), Spain	20 nights
	8.1-m Gemini North, HI, USA	5 nights
	6.5-m MMT, AZ, USA	+30 nights
	2.7-m SOFIA, USA	+70 flights
Memberships	Member of the Executive Committee for COPAG/NASA	2022-2024
	Member of the Diversity and Inclusion committee for the US ELT Program	2022
	SOC: AGN and Polarimetry conference	2021
	The International Thermal-Infrared Network (TINTIN)	2021
	International research group to optimize IR observation techniques in ELTs	
	Member of the Far-Infrared Science Interest Group (FIR-SIG)	2018 - 2020
	Member of GATOS Team	
	International research group focused on AGN research with JWST	2017 - present
	Thirty Meter Telescope (TMT) International Science Development Team (ISDT)	2017 - present
	Team: Supermassive Black Hole	2015 - present
	Team: Time Domain	
	Organizer: 1st and 2nd Astronomy & Space Physics Graduate Symposium at the University of Texas San Antonio and SwRI	2015-2016
	LOC member of Torus Workshop	
University of Texas at San Antonio, TX, USA	2012	
Member of Piratas Team		
International research group focused on AGN research	2008 - 2016	

Selected Press 2023

ALMA and ESO Observatories, Physics World, and News & Views by Nature

Furthest ever detection of a galaxy's magnetic field (<https://www.almaobservatory.org/en/press-releases/furthest-ever-detection-of-a-galaxys-magnetic-field/>; <https://www.eso.org/public/news/eso2316/>; <https://physicsworld.com/a/polarized-dust-reveals-strong-magnetic-field-of-ancient-galaxy/>; <https://www.nature.com/articles/s41550-023-02072-z>)

Stanford News

Q&A: Revealing the invisible: detecting variations in extragalactic magnetic fields (<https://news.stanford.edu/2023/07/13/qa-tale-two-magnetic-fields/>)

Scientific American

How magnetic fields control galactic growth: (<https://www.scientificamerican.com/article/how-magnetic-fields-control-galactic-growth/>)

2022

Visions of galaxies at the Stanford Report

Personal and professional interview (<https://news.stanford.edu/report/2022/10/11/visions-of-galaxies/>)

Our magnetic universe

Interviewed by *New Scientist* (Stuart Clark) about B-fields in the universe

(<https://www.newscientist.com/article/mg25634070-800-did-magnetism-shape-the-universe-an-epic-experiment-suggests-it-did/>)

How magnetic fields help feed a supermassive black hole

NASA press release of Lopez-Rodriguez (2021c, *ApJ*, 923, 150)

2021

Magnetic fields properties in a galactic merger remnant

Nature Astronomy cover Volume 5, Issue 6 of Lopez-Rodriguez (2021, *Nature Astronomy*, 5, 604)

Voted best cover of the year for *Nature Astronomy* by the public.

Galactic merger warps magnetic fields

NASA press release of Lopez-Rodriguez (2021, *Nature Astronomy*, 5, 604)

Magnetic Chaos hidden within the Whirlpool Galaxy

NASA press release of Borlaff, Lopez-Rodriguez, et al. (2021, *ApJ*)

2020

A magnetic collapse

Nature Astronomy cover Volume 4, Issue 12 of Pillai et al. (2020, *Nature Astronomy*, 4, 1195)

2019

How to Shape a Spiral Galaxy

NASA press release of Lopez-Rodriguez et al. (2020, *ApJ*, 888, 66)

Space Spectacle

Interview for the Special Space Series for the NHK Japan broadcast (July 2019)

Q&A with an Extragalactic Astronomer

Interview for *BBC Sky at Night* Magazine (June 2019)

2018

Magnetic Fields May Be Key to Black Hole Activity

NASA press release of Lopez-Rodriguez et al. (2018, *ApJ*, 861, 23)

The Core of the Milky Way Unveiled in Clearest Infrared Image Yet

Several astronomy magazines (i.e. *Astronomy*, *Discover*) of Roche et al. (2018, *MNRAS*, 476, 235)

Astronomy from the Stratosphere: Results from NASA's SOFIA Airborne Telescope

AAS press conference: *Magnetic fields of galaxies*

2017

SOFIA Finds Cool Dust Around Energetic Active Black Holes

NASA press release of Fuller et al. (2016, *MNRAS*, 462, 261)

2016

Monster Black Hole's Powerful Jets Reveal Galactic Secrets

Several astronomy magazines (i.e. *Astronomy*, *Discover*) of Lopez-Rodriguez et al. (2016, *ApJ*, 793, 2)

Astronomy Outreach	Astronomy on Tap in Columbia, SC (co-founder)	2025
	Noches Astronómicas at KIPAC (lead coordinator and host)	2023
	First Spanish activity organized by KIPAC for the Hispanic/Latinx community in the Bay Area.	
	49rs SF Academy (Career path in STEM round table and solar observations)	2022
	Earth & Space Reports Talk on SOFIA Science	2021
	Organizer/Co-founder of Astronomy on Tap South Bay	2017 - 2020
	NASA Universe of Learning	2018
	Participation in the AAS session	
	Constellation Workshop	2014
	- Overton Elementary School (2nd grade), Austin, TX, USA	
	- Fernandez Elementary School (2nd grade), San Antonio, TX, USA	
	El Dorado Star Party	2013
	Talk: <i>The Universe Seen Through Infrared Vision</i> , El Dorado, TX, USA	
	Planetarium - Astronomical Sessions	2006-2008
	Science Museum, La Laguna, Spain	
	Astronomy Camp for kids (7-12 yrs old)	2006-2008
Science Museum, La Laguna, Spain		
Mobile Planetarium - Astronomical Sessions	2006-2008	
Summatenerife, Spain		
Astronomical Social Meetings (1 per week)	2006-2008	
Astronomical Society of Tenerife: URANIA, Spain		
Observing Nights for Open Public (astro-bus)	2005-2006	
Astronomical Society of Tenerife: URANIA, Spain		

2025

GATOS meeting (Invited)
MASC Meeting at Francis Marion University
ALMA Polarization workshop

2024

AGN Polarimetry workshop at Strasburg, Germany (invited)
Charleston College Colloquium (Invited)
University of Arizona Colloquium (Invited)
Heritage of SOFIA – Scientific Highlights and Future Perspectives, Stuttgart University, Germany (Invited)
Kavli-IAU workshop: Probing the Universe from far-infrared to millimeter wavelengths: future facilities and their synergies, Caltech, USA (Invited)
Max Planck Institute for Radio Astronomy Colloquium (Invited)
GATOS Workshop, Madrid, Spain (SOC chair)
American Astronomical Society (AAS), 243th
Science talk: *The furthest measured magnetic field in a galaxy at $z=2.6$*
COPAG Panel discussion about NASA Precursor Science (Invited)

2023

AGN on the beach, Tropea Italy
Lorentz Center: High frequency science with ALMA (Invited)
Gas in and around galaxies workshop
European Astronomical Symposium
Baryonic feedback, magnetic fields, and cosmic rays in galaxy evolution (Invited talk)
The dusty inner regions of active galaxies in the JWST era (Contributed talk)
Multiwavelength polarization: from radio to gamma-rays (ePoster)
2nd PRIMA workshop (Invited talk)
Voids and filaments meeting
SOFIA Tele-talk (Invited talk)
Magnetism and accretion (Invited talk)
American Astronomical Society (AAS), 240th
IRIG Talk: *Extragalactic magnetism using far-infrared and sub-mm polarimetry*
NASA Hyperwall: *New results from the Survey of extragalactic magnetism with SOFIA (SALSA)*
Science talk in AGN V Session: *On the origin of radio-loudness in active galactic nuclei*
iPoster: PRIMA Science: *Revealing the magnetic fields in galaxies with PRIMA*

2022

Torus 2022 workshop (Invited talk)
Multi-institutional International AGN Seminar Series (Invited talk)
6th conference on polarization results in Mexico (Invited review talk)
SOFIA Science Center (Invited Colloquium)
Indian Institute of Astrophysics (IIA), Bangladore (Invited colloquium)
Signatures of AGN feedback: the post-SOFIA Era (Invited talk)
2022 SAGI Astrophysics Workshop (Invited review talk)
Magnetic fields and the structure of the filamentary interstellar medium (Invited talk)
SOFIA+ALMA Lake Arrowhead workshop- Our galactic ecosystem: Opportunities and diagnostics in the infrared and beyond
IR2022: An infrared bright future for ground-based IR observatories in the era of JWST
KIPAC talk on the CMB working group
SOFIA Best paper of 2021 talk on the unofficial AAS Winter 2022

2021

University of Boulder, CO (Invited Colloquium)

RAS Magnetic fields in galaxies.

American Astronomical Society (AAS), 238th — Fred Kavli Plenary Lecture

University of Crete (Invited Colloquium)

KIPAC Tea Talk

AstroPol2020 at IAU (Invited Review)

SOFIA Tele-talk (Invited)

Instituto Nacional de Astrofisica, Optica y Electronica (INAOE)

Puebla, Mexico (Talk in Spanish)

El campo magnetico de M82

American Astronomical Society (AAS), 237th

Science Talk: *The magnetic field of the warped molecular disk of Centaurus A*

2020

AGN and Polarimetry conference

Ground-based infrared astronomy: past, present, and future

Georgia State University (Invited Colloquium)

American Astronomical Society (AAS), Honolulu, HI

Science Talk: *The magnetic field of the torus of NGC 1068 as seen by ALMA polarimetry*

Invited Review Talk in Special Session: *The magnetic fields of nearby galaxies*

2019

SOFIA Tele-talk (Invited)

University of California Santa Barbara (Invited Colloquium)

American Astronomical Society (AAS), Seattle, WA

Science Talk: *On the Role of Magnetic Fields in Active Galaxies*

2018

Torus Workshop

Puerto Varas, Chile

- *The Origin of the Mid- and Far-Infrared Polarization of the Torus in Active Galaxies (poster)*

- *The Dust and Cloud Distribution of the Torus of NGC 1068 (poster)*

The Next Generation of Thermal-IR Astronomy: How Can We Reach the Photon Noise Limit? (invited)

Leiden, The Netherlands

- *Thermal Background Observations with SOFIA*

- *Drift Scanning Observations with SOFIA*

IAU, Vienna

Science Talk: *Resolving the Torus of Active Galaxies with Extremely Large Telescopes*

Poster: *The highly Polarized Core of Cygnus A*

Poster: *Far-Infrared Polarization of Galaxies with SOFIA/HAWC+*

SOFIA Tele-talk (Invited)

IPAC/Caltech

SOFIA Community Day: HAWC+

Science Talk: *The Polarized Core of Cygnus A*

University of Canterbury, New Zealand

University of Auckland, New Zealand

NOAO, Tucson, AZ, USA

SOFIA Community Day: HAWC+

National Observatory of Japan (NAOJ) (invited seminar)

American Astronomical Society (AAS), Washington, DC

Press Conference: *First-Light with HAWC+: Far-Infrared Polarimetry of Galaxies*

Science Talk: *The Magnetic Fields of Active Galaxies*

2017

NOAO, Tucson, AZ (invited)

University of Madison-Wisconsin

SOFIA Community Day: EXES, FORCAST, HAWC+

University of California Santa Cruz (Invited Colloquium)

2016

National Observatory of Japan (NAOJ), Mitaka, Tokyo, Japan (Invited Colloquium)

Kyoto Sangyo University, Kyoto, Japan (Invited Colloquium)

TMT Science Forum (invited)

Kyoto, Japan

TMT Simulated Observations of the Dusty Torus in Active Galactic Nuclei

NASA Ames, Mountain View, CA (Invited Colloquium)

University of Texas at Austin, TX, AZ (Seminar)

NRAO LIVE! ALMA Workshop, Austin, TX, USA

University of Liege, Liege, Belgium (Invited Colloquium)

2015

University of Texas Rio Grande Valley, Brownsville, TX, USA (Invited)

Building Astronomy in Texas 2015, Texas A&M, College Station, TX, USA (Invited)

Universidad Nacional Autónoma de Mexico (UNAM), Mexico (Invited)

Morelia, Mexico (Talk in Spanish)

Active Galactic Nuclei Through a Set of Infrared Polarized Eyes

TMT Science Forum (invited)

Washington D.C., USA

The Hydromagnetic Dusty Structure of Nearby Active Galactic Nuclei: Mining their Evolutionary History using a Multi-Wavelength Polarimetric Study

Instituto de Astrofísica de Canarias (IAC)

La Laguna, Canary Islands, Spain (<http://iactalks.iac.es/talks/view/778>)

Results with CanariCam Polarimetry: A Mid-Infrared Polarized View of Active Galactic Nuclei

Polarization & Active Galactic Nuclei II, Strasbourg, France

Steward Observatory, Tucson, AZ, USA (Invited Colloquium)

Results with MMT-Pol: The Adaptive Optics Optimized 1-5 microns Imaging Polarimeter of MMT

2014

Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE)

Puebla, Mexico (Talk in Spanish)

Física y Astronomía en la Universidad de Texas en San Antonio

Universidad Nacional Autónoma de Mexico (UNAM), Mexico

Mexico City, Mexico (Talk in Spanish)

Física y Astronomía en la Universidad de Texas en San Antonio

University of Minnesota, MN, USA (Invited Colloquium)

AstroPol Conference, Grenoble, France

Kyoto University, Kyoto, Japan (Seminar)

AGN Polarimetry and AGN Observations Using SOFIA/FORCAST

Instituto de Astrofísica de Canarias (IAC)

La Laguna, Canary Islands, Spain

CanariCam Polarimetry

Polarization & Active Galactic Nuclei II

Strasbourg, France

Revealing the Core of AGN Using Infrared Polarimetry

Steward Observatory

Tucson, AZ, USA

Results with MMT-Pol: The Adaptive Optics Optimized 1-5 microns Imaging Polarimeter of MMT

2014

Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE)

Puebla, Mexico (Talk in Spanish)

Física y Astronomía en la Universidad de Texas en San Antonio

Universidad Nacional Autónoma de Mexico (UNAM), Mexico

Mexico City, Mexico (Talk in Spanish)

Física y Astronomía en la Universidad de Texas en San Antonio

University of Minnesota, MN, USA (Invited)

Minneapolis, MN, USA

NIR Polarimetry of AGN and the MIR Synchrotron Polarized Core of Cygnus A

AstroPol Conference

Grenoble, France

Infrared Polarimetry of Active Galactic Nuclei

Kyoto University

Kyoto, Japan

AGN Polarimetry and AGN Observations Using SOFIA/FORCAST

Instituto de Astrofisica de Canarias (IAC)

La Laguna, Canary Islands, Spain

CanariCam Polarimetry

2013

Infrared Astronomy Workshop

Valencia, Spain

CanariCam Polarimetry

Instituto Nacional de Astrofisica, Optica y Electronica (INAOE)

Puebla, Mexico (Talk in Spanish)

Estimations of the Magnetic Field Strengths in the Torus of AGN

University of Texas at Austin

Austin, TX, USA

Estimations of the Magnetic Field Strengths in the Torus of AGN

2011

Polarimetry with Extremely Large Telescopes Workshop (Poster)

Utrecht, The Netherlands

New Insights in the Estimations of the Magnetic Field in the Torus of AGN

Beijing International Summer School about AGN

Beijing, China

Florida ALMA Workshop

Gainesville, FL

2008

Second Blas Cabrera Workshop on Using GTC

Merida, Mexico

Submitted:

1. **Lopez-Rodriguez, E.**, Sanchez-Bermudez, J., Gonzalez-Martin, O., Nikutta, R., Lau, R. M., Thatte, D., Garcia-Bernete, I., Girard, J. H., Hankins, M. J. *JWST interferometric imaging reveals the dusty disk obscuring the supermassive black hole of the Circinus galaxy.* (submitted to Nature).
2. **Lopez-Rodriguez, E.**, et al. *GATOS: On the physical origin of the extended MIR emission in AGN* (submitted to ApJ).
3. Pattle, K., Karolu, J., Findlay, L. B., Coude, S., Hensley, B., Cortes, P. C., Di Francesco, J., Le Gouellec, V. J. M., **Lopez-Rodriguez, E.**, Louvet, F. *Mapping magnetic fields from clouds to cores with PRIMAGER.* Find (Submitted to JATIS)
4. U Maglione, D., Martin-Alvarez, S., Lopez-Rodriguez, E., Clark, S. E. *A PRIMA Vista: far-infrared polarimetric observations to unveil small-scale magnetohydrodynamics in galaxies.* (Submitted to JATIS)

Published:

1. González-Martín, O, Díaz-González, D. J., Martínez-Paredes, M., Alonso-Herrero, A., **López-Rodríguez, E.**, García-Lorenzo, B., Ramos Almeida, C., García-Bernete, I., Esparza-Arredondo, D., Hoenig, S. F., García-Burillo, S., Packham, C., Levenson, N. A., Labiano, A., Pereira-Santaella, M., Combes, F., Audibert, A., Hicks, E. K. S., Zhang, L., Bellocchi, E., Davies, R. I., Hermosa Muñoz, L., Imanishi, M., Ricci, C., Stalevski, M. *JWST reveals the diversity of nuclear obscuring dust in nearby AGN: nuclear isolation of MIRI/MRS data cubes and continuum spectral fitting.* 2025, MNRAS, 539, 2158.
2. Belfiori, D., Paladino, R., Hughes, A., Bernard, J.-P., Alina, D., Bešlić, I., **Lopez Rodriguez, E.**, Gorski, M. D., Cronin, S. A., Bolatto, A. D. *The dust polarisation and magnetic field in the centre of NGC253 with ALMA.* 2025, A&A, 697, 24.
3. Ogle, P. M., Sebastian, B., Aravindan, A., McDonald, M., Canalizo, G., Ashby, M. L. N., Azadi, M., Antonucci, R., Barthel, P., Baum, S., Birkinshaw, M., Carilli, C., Chiaberge, M., Duggal, C., Gebhardt, K., Hyman, S., Kuraszkiwicz, J., **Lopez-Rodriguez, E.**, Medling, A. M., Miley, G., Omoruyi, O., O'Dea, C., Perley, D., Perley, R. A., Perlman, E., Reynaldi, V., Singha, M., Sparks, W., Tremblay, G., Wilkes, B. J., Willner, S. P., Worrall, D. M. *The JWST view of Cygnus A: Jet-driven coronal outflow with a twist.* 2025, ApJ, 983, 98.
4. P Fuller, L., **Lopez-Rodriguez, E.**, Garcia-Bernete, I., Ramos Almeida, C., Alonso-Herrero, A., Packham, C., Zhang, L., Leist, M., Levenson, N., Imanishi, M., Hoenig, S., Stalevski, M., Ricci, C., Hicks, E., Bellocchi, E., Combes, F., Davies, R., Garcia Burillo, S., Gonzalez Martin, O., Takuma I., Labiano, A., Pereira Santaella, M., Rigopoulou, D., Rosario, D., Rouan, D., Shimizu, T., Ward, M. *The Galaxy Activity, Torus, and Outflow Survey (GATOS). VII. The 20-214 um imaging atlas of active galactic nuclei using SOFIA.* 2025, ApJS, 276, 64
5. GP Dacunha, T., Martin-Alvarez, S., **Lopez-Rodriguez, E.**, Clark, S. E. *The overestimation of equipartition magnetic field strengths from synchrotron emission using synthetically observed galaxies.* 2025, ApJ, 980, 197
6. Esparza-Arredondo, D., Ramos Almeida, C., Audibert, A., Pereira-Santaella, M., García-Bernete, I., García-Burillo, S.; Shimizu, T., Davies, R., Hermosa Muñoz, L., Alonso-Herrero, A., Combes, F.; Speranza, G., Zhang, L., Campbell, S., Bellocchi, E., Bunker, A. J., Díaz-Santos, T., García-Lorenzo, B., González-Martín, O., Hicks, E. K. S., Labiano, A., Levenson, N. A., Ricci, C., Rosario, D., Hoenig, S., Packham, C., Stalevski, M., Fuller, L., Izumi, T., **López-Rodríguez, E.**, Rigopoulou, D., Rouan, D., Ward, M. *Molecular gas stratification and distributed kinematics in the Seyfert galaxy MCG-05-23-16 revealed by JWST and ALMA.* 2025, A&A, 693, 174.
7. Borlaff, A. S., Marcum, P. M., Temi, P., Chamba, N., Chojnowski, S. D., **Lopez-Rodriguez, E.**, Siemiginowska, A., Laine, S., Koekemoer, A. M., Sanderson, K. N., Dijeau, A. F., Prescott, M. K. M., Proudfit, L., Fanelli, M. N., *SAUNAS II: Discovery of Cross-shaped X-ray Emission and a Rotating Circumnuclear Disk in the Supermassive S0 Galaxy NGC 5084.* 2024, ApJ, 977, 238.
8. Marin, F., Marin, F.; Barnouin, T., Wu, K., **Lopez-Rodriguez, E.** *Forgotten treasures in the HST/FOC UV imaging polarimetric archives of active galactic nuclei III. Five years monitoring of M87.* 2024, A&A, 692, 179.

9. Barnouin, T., Marin, F., Lopez-Rodriguez, E. *Forgotten treasures in the HST/FOC UV imaging polarimetric archives of active galactic nuclei. II. Mrk 463E*. 2024, A&A, 692, 178.
10. Béthermin, M., Bolatto, A. D., Boulanger, F., Bradford, C. M., Burgarella, D., Ciesla, L., Donnellan, J., Hensley, B. S., Glenn, J., Lagache, G., **Lopez-Rodriguez, E.**, Oliver, S., Pope, A., Sauvage, M. *Confusion of extragalactic sources in the far infrared: a baseline assessment of the performance of PRIMAgE in intensity and polarization*. 2024, A&A, 692, 52.
11. Chen, J., Lopez-Rodriguez, E., Ivison, R. J., Geach, J. E., Dye, S., Liu, X., Bendo, G. *A kiloparsec-scale ordered magnetic field in a galaxy at $z=5.6$* . 2024, A&A, 692, 34.
12. Zhang, L., García-Bernete, I., Packham, C., Donnan, F. R., Rigopoulou, D., Hicks, E. K. S., Davies, R. I., Shimizu, T. T., Alonso-Herrero, A., Ramos Almeida, C., Pereira-Santaella, M., Ricci, C., Bunker, A. J., Leist, M. T., Rosario, D. J., García-Burillo, S., Hermosa Muñoz, L., Combes, F., Imanishi, M., Labiano, A., Esparza-Arredondo, D., Bellocchi, E., Audibert, A., Fuller, L., González-Martín, O., Hönig, S., Izumi, T., Levenson, N. A.; **López-Rodríguez, E.**, Rouan, D., Stalevski, M., Ward, M. J. *Polycyclic Aromatic Hydrocarbon Emission in the Central Regions of Three Seyferts and the Implication for Underlying Feedback Mechanisms*. 2024, ApJ, 975, 2.
13. **Lopez-Rodriguez, E.**, Tram, L. N. *Probing the Dust Grain Alignment Mechanisms in Spiral Galaxies with M51 as the Case Study*. 2024, ApJ, 975, 119.
14. García-Bernete, I., Rigopoulou, D., Donnan, F. R., Alonso-Herrero, A., Pereira-Santaella, M., Shimizu, T., Davies, R., Roche, P. F., García-Burillo, S., Labiano, A., Hermosa Muñoz, L., Zhang, L., Audibert, A., Bellocchi, E., Bunker, A., Combes, F., Delaney, D., Esparza-Arredondo, D., Gandhi, P., González-Martín, O., Hönig, S. F., Imanishi, M., Hicks, E. K. S., Fuller, L., Leist, M., Levenson, N. A., **Lopez-Rodriguez, E.**, Packham, C., Ramos Almeida, C., Ricci, C., Stalevski, M., Villar Martín, M., Ward, M. J. *The Galaxy Activity, Torus, and Outflow Survey (GATOS): V. Unveiling PAH survival and resilience in the circumnuclear regions of AGNs with JWST*. 2024, A&A, 691, 162.
15. Zhang, L., Packham, C., Hicks, E. K. S., Davies, R. I., Shimizu, T. T., Alonso-Herrero, A., Hermosa Muñoz, L., García-Bernete, I., Pereira-Santaella, M., Audibert, A., **López-Rodríguez, E.**, Bellocchi, E., Bunker, A. J., Combes, F., Díaz-Santos, T., Gandhi, P., García-Burillo, S., García-Lorenzo, B., González-Martín, O., Imanishi, M., Labiano, A., Leist, M. T., Levenson, N. A., Ramos Almeida, C., Ricci, C., Rigopoulou, D., Rosario, D. J., Stalevski, M., Ward, M. J., Esparza-Arredondo, D., Delaney, D., Fuller, L., Haidar, H., Hönig, S., Izumi, T., Rouan, D. *The Galaxy Activity, Torus, and Outflow Survey (GATOS). IV. Exploring Ionized Gas Outflows in Central Kiloparsec Regions of GATOS Seyferts*. 2024, ApJ, 974, 195.
16. Hermosa Muñoz, L., Alonso-Herrero, A., Pereira-Santaella, M., García-Bernete, I., García-Burillo, S., García-Lorenzo, B., Davies, R., Shimizu, T., Esparza-Arredondo, D., Hicks, E. K. S., Haidar, H., Leist, M., **López-Rodríguez, E.**, Ramos Almeida, C., Rosario, D., Zhang, L., Audibert, A., Bellocchi, E., Boorman, P., Bunker, A. J., Combes, F., Campbell, S., Díaz-Santos, T., Fuller, L., Gandhi, P., González-Martín, O., Hönig, S., Imanishi, M., Izumi, T., Labiano, A., Levenson, N. A., Packham, C., Ricci, C., Rigopoulou, D., Rouan, D., Stalevski, M., Villar-Martín, M., Ward, M. J. *A biconical ionised gas outflow and evidence of positive feedback in NGC 7172 uncovered by MIRI/JWST*. 2024, A&A, 690, 350.
17. García-Burillo, S., Hicks, E. K. S., Alonso-Herrero, A., Pereira-Santaella, M., Usero, A., Querejeta, M., González-Martín, O., Delaney, D., Ramos Almeida, C., Combes, F., Anglés-Alcázar, D., Audibert, A., Bellocchi, E., Davies, R. I., Davis, T. A., Elford, J. S., García-Bernete, I., Hönig, S., Labiano, A., Leist, M. T., Levenson, N. A., **López-Rodríguez, E.**, Mercedes-Feliz, J., Packham, C., Ricci, C., Rosario, D. J., Shimizu, T., Stalevski, M., Zhang, L. *Deciphering the imprint of active galactic nucleus feedback in Seyfert galaxies: Nuclear-scale molecular gas deficits*. 2024, A&A, 689, 347.

18. Davies, R., Shimizu, T., Pereira-Santaella, M., Alonso-Herrero, A., Audibert, A., Bellocchi, E., Boorman, P., Campbell, S., Cao, Y., Combes, F., Delaney, D., Díaz-Santos, T., Eisenhauer, F., Esparza Arredondo, D., Feuchtgruber, H., Förster Schreiber, N. M., Fuller, L., Gandhi, P., García-Bernete, I., García-Burillo, S., García-Lorenzo, B., Genzel, R., Gillessen, S., González Martín, O., Haidar, H., Hermosa Muñoz, L., Hicks, E. K. S., Hönig, S., Imanishi, M., Izumi, T., Labiano, A., Leist, M., Levenson, N. A., **Lopez-Rodriguez, E.**, Lutz, D., Ott, T., Packham, C., Rabien, S., Ramos Almeida, C., Ricci, C., Rigopoulou, D., Rosario, D., Rouan, D., Santos, D. J. D., Shangguan, J., Stalevski, M., Sternberg, A., Sturm, E., Tacconi, L., Villar Martín, M., Ward, M.; Zhang, L. *GATOS: missing molecular gas in the outflow of NGC 5728 revealed by JWST*. 2024, *A&A*, 689, 263.
19. Haidar, H., Rosario, D. J.; Alonso-Herrero, A., Pereira-Santaella, M., García-Bernete, I., Campbell, S., Hönig, S. F., Ramos Almeida, C., Hicks, E., Delaney, D., Davies, R., Ricci, C., Harrison, C. M., Leist, M., **Lopez-Rodriguez, E.**, Garcia-Burillo, S., Zhang, L., Packham, C., Gandhi, P., Audibert, A., Bellocchi, E., Boorman, P., Bunker, A., Combes, F., Diaz Santos, T., Donnan, F. R., Gonzalez Martin, O., Hermosa Muñoz, L., Charidis, M., Labiano, A., Levenson, N. A., May, D., Rigopoulou, D., Rodriguez Ardila, A., Shimizu, T. T., Stalevski, M., Ward, M. *Dust beyond the torus: revealing the mid-infrared heart of local Seyfert ESO 428-G14 with JWST/MIRI*. 2024, *MNRAS*, 532, 4645.
20. Reyes-Amador, O. U., Fritz, J., González-Martín, O., Srinivasan, S., Baes, M., **Lopez-Rodriguez, E.**, Osorio-Clavijo, N., Victoria-Ceballos, C. I., Stalevski, M., Ramos Almeida, C. *Towards an observationally motivated AGN dusty torus model - I. Dust chemical composition from the modelling of Spitzer spectra*. 2024, *MNRAS*, 531, 1841.
21. Borlaff, A. S., Marcum, P. M., Alpaslan, M., Temi, P., Chamba, N., Chojnowski, D. S., Fanelli, M. N., Koekemoer, A. M., Laine, S., **Lopez-Rodriguez, E.**, Siemiginowska, A. *SAUNAS. I. Searching for Low Surface Brightness X-Ray Emission with Chandra/ACIS*. 2024, *ApJ*, 967, 169.
22. ^p Martin-Alvarez, S., **Lopez-Rodriguez, E.**, Dacunha, T., Clark, S. E., Borlaff, A., Beck, R., Rodriguez Montero, F., Lyla, J. S., Devriendt, J., Slyz, A., Roman-Duval, J., Ntormousi, E., Tahani, M., Subramanian, K., Dale, D. A., Marcum, P., Tassis, K., del Moral-Castro, I., Tram, L. N., Jarvis, M. J. *Extragalactic magnetism with SOFIA (SALSA Legacy Program). VII. A theoretical tomography view of the radio and far-infrared magnetic fields in galaxies*. 2024, *ApJ*, 966, 43
20. Bagul, A., Ogle, P., Antonucci, R., Maloney, P., **Lopez-Rodriguez, E.** *Cygnus A obscuring torus: ionized, atomic, or molecular?* 2024, *MNRAS*, 527, 2371
21. Garcia-Bernete, I., Alonso-Herrero, A., Rigopoulou, D., Pereira-Santaella, M., Shimizu, T., Davies, R., Donnan, F. R., Roche, P. R., Gonzalez-Martin, O., Ramos Almeida, C., Bellocchi, E., Combes, F., Efstathiou, A., Esparza-Arendo, D., Garcia-Burillo, S., Gonzalez-Alfonso, E., Hicks, E. K., S., Honig, S., Labiano, A., Levenson, N. A., **Lopez-Rodriguez, E.**, et al. *The Galaxy Activity, Torus, and Outflows Survey (GATOS). III. Revealing the inner icy structure in local AGN*. 2024, *A&A*, 681, 7
22. Marin, F., Barnouin, T., Ehlert, S. R., Peirson, A. L., **Lopez-Rodriguez, E.**, Petropoulou, M., Wu, K., Marti-Vidal, I. *An X-ray-to-radio investigation of the nuclear polarization from the radio-galaxy Centaurus A*. 2023, *MNRAS*, 526, 6321
23. Martin-Alvarez, S., Sijacki, D., Haehnelt, M. G., Farcy, M., Dubois, Y., Belokurov, V., Rosdahl, J., **Lopez-Rodriguez, E.** *The Pandora project I: the impact of radiation and cosmic rays on baryonic and dark matter properties of dwarf galaxies*. 2023, *MNRAS*, 525, 3806
24. Fang, K., **Lopez-Rodriguez, E.**, Halzen, F., Gallagher, J. S., Blandford, R. *High-energy neutrinos from the circumnuclear region of NGC 1068*. 2023, *ApJ*, 956, 8
25. Barnouin, T., Marin, F., **Lopez-Rodriguez, E.**, Huber, L., Kishimoto, M. *Forgotten treasures in the HST/FOC ultraviolet imaging polarimetric analysis archives of galactic nuclei I. The pipeline, benchmarking against NGC 1068 and exploration of IC 5068*. 2023, *A&A*, 678, 143
26. Geach, J., **Lopez-Rodriguez, E.**, Doherty, M. J., Chen, J., Ivison, R. J., Benson, R. J., Dye, S., Coppin, K. E. K. *Polarized thermal emission from dust in a galaxy at redshift 2.6*. 2023, *Nature*, 621, 483
27. ^u Sargent, W. J., **Lopez-Rodriguez, E.**, Clark, S. E. *The structure of magnetic fields in spiral galaxies: a radio and far-infrared polarimetric analysis*. 2023, *ApJ*, 954, 53

28. **Lopez-Rodriguez, E.** *The magnetic fields of starburst galaxies. I. Identification and characterization of the polarization properties of the disk and outflow.* 2023, ApJ, 953, 113
29. P Borlaff, A. S., **Lopez-Rodriguez, E.**, Beck, R., Clark, S. E., Ntormousi, E., Tassis, K., Martin-Alvarez, S., Tahani, M., Dale, D. A., del Moral Castro, I., Roman-Duval, J., Marcum, P. M., Beckman, J. E., Subramanian, K. *Extragalactic magnetism with SOFIA (SALSA Legacy Program). V. First results on the magnetic field orientation of galaxies.* 2023, ApJ, 952, 4
30. P Guerra, J., **Lopez-Rodriguez, E.**, Chuss, D., T., Butterfield, N. O., Schmelz, J. T. *The strength and sheared magnetic field in the circumnuclear disk.* 2023, AJ, 166, 37
31. P Le Gouellec, V., Andersson, B. G., **Lopez-Rodriguez, E.**, Soam, A., Chuss, D., Arneson, R., Schirmer, T.-A., Vaillancourt, J. *The origin of dust polarization in the Orion bar.* 2023, ApJ, 951, 97
32. **Lopez-Rodriguez, E.**, Kishimoto, M., Antonucci, R., Begelman, M. C., Globus, N., Blandford, R. *On the origins of radio-loudness in active galactic nuclei using far-infrared polarimetric observations.* 2023, ApJ, 951, 31
33. Stalevski, M., González-Gaitán, S., Savić, Đ., Kishimoto, M., Mourão, A., **Lopez-Rodriguez, E.**, Asmus, D. *Dissecting the active galactic nucleus in Circinus - III. VLT/FORS2 polarimetry confirms dusty cone illuminated by a tilted accretion disk.* 2023, MNRAS, 519, 323
34. P Tram, L. N., Bonne, L., Hu, Y., **Lopez-Rodriguez, E.**, Guerra, J. A.; Lesaffre, P., Gusdorf, A., Hoang, T., Lee, M.-Y., Lazarian, A., Andersson, B.-G., Coude, S., Soam, A., Vacca, W. D., Lee, H., Gordon, M. *SOFIA Observations of 30 Doradus: II - Magnetic fields and large scale gas kinematics.* 2023, ApJ, 946
35. **Lopez-Rodriguez, E.**, Borlaff, A. S., Beck, R., Reach, W. T., Mao, S. A., Ntormousi, E., Tassis, K., Martin-Alvarez, S., Clark, S. E., Dale, D. A.; del Moral-Castro, I. *Extragalactic magnetism with SOFIA (SALSA Legacy Program): the magnetic fields in the multi-phase interstellar medium of the Antennae galaxies.* 2023, ApJ, 942, 13
36. Garcia-Berete, I., Gonzalez-Martin, O., Ramos Almeida, C., Alonso-Herrero, A., Martinez-Paredes, M., Ward, M. J., Roche, P. F., Acosta-Pulido, J. A., **Lopez-Rodriguez, E.**, Rigopoulou, D., Esparza-Arredondo, D. *Torus and polar dust dependence on AGN properties.* 2022, A&A, 667, 140
37. **Lopez-Rodriguez, E.**, Mao, S. A., Beck, R., Borlaff, A. S., Ntormousi, E., Tassis, K., Dale, D. A., Roman-Duval, J., Subramanian, K., Martin-Alvarez, S., Marcum, P. M., Clark, S. E.; Reach, W. T.; Harper, D. I. A.; Zweibel, E. G. *Extragalactic magnetism with SOFIA (SALSA Legacy Program) - IV: Program overview and first results on the polarization fraction.* 2022, ApJ, 936, 92
38. **Lopez-Rodriguez, E.**, Clark, M., Shenoy, S., Vacca, W., Coude, S., Arneson, R., Ashton, P., Eftekharzadeh, S., Ashton, P., Eftekharzadeh, S., Beck, R., Beckman, J. E., Borlaff, A. S., Clark, S. E., Dale, D. A., Martin-Alvarez, S., Ntormousi, E., Reach, W. T., Roman-Duval, J., Tassis, K., Harper, D. A., Marcum, P. M. *Extragalactic magnetism with SOFIA (SALSA Legacy Program) - III: First data release and on-the-fly polarization mapping.* 2022, ApJ, 936, 65
39. Li, P. S., **Lopez-Rodriguez, E.**, Soam, A., Klein, R. I. *The role of magnetic fields in the stability and fragmentation of filamentary molecular clouds: two case studies at OMC-3 and OMC-4.* 2022, MNRAS, 514, 3024
40. Andersson, B.-G. **Lopez-Rodriguez, E.**, Medan, I., Soam, A., Hoang, T., Vaillancourt, J. E., Lazarian, A., Sandin, C., Mattsson, L., Tahani, M. *Grain alignment in the circumstellar shell of IRC+10216.* 2022, ApJ, 931, 80
41. Li, P. S., **Lopez-Rodriguez, E.**, Ajeddig, H., André, P., McKee, C. F., Rho, J., Klein, R. I. *omplex I Mapping the magnetic field in the Taurus/B211 filamentary cloud with SOFIA/HAWC+ and comparing with simulation.* 2022, MNRAS, 510, 6085.
42. Victoria-Ceballos, S. I., Gonzalez-Martin, O., Fritz, J., Ramos Almeida, C., **Lopez-Rodriguez, E.**, Garcia-Burillo, S., Alonso-Herrero, A., Martinez-Paredes, M., Esparza-Arredondo, D., Osorio-Clavijo, N. *The complex infrared dust continuum emission of NGC 1068: ground-based N- and Q-band spectroscopy and new radiative transfer models.* 2022, ApJ, 926, 192
43. **Lopez-Rodriguez, E.**, Beck, R. Clack, S., Hughes, A., Borlaff, A. S., Ntormousi, E., Grosset, L., Tassis, K., Beckman, J. E., Subramanian, K., Dale, D., Diaz-Santos, T. *Extragalactic magnetism with SOFIA (Legacy Program) — II: A magnetically-driven flow in the starburst ring of NGC 1097.* 2021, ApJ, 923, 150

44. [†] Borlaff, A., **Lopez-Rodriguez, E.**, Beck, R., Stepanov, R., Ntormousi, E., Hughes, A., Tassis, K., Marcum, P., Grosset, L., Beckman, J. E., Proudfit, L., Clark, S. E., Diaz-Santos, T., Mao, S. A., Reach, W. T., Roman-Duvan, J., Subramanian, K., Tram, L. N., Zweibel, E. G. *Extragalactic magnetism with SOFIA (Legacy Program) — I: The magnetic field in the multi-phase interstellar medium of M51*. 2021, *ApJ*, 921, 128
45. Nikutta, R. **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N. A., Packham, C., Honig, S. F., Alonso-Herrero, A. *Hypercubes of AGN Tori (HYPERCAT) — II: Resolving the torus with extremely large telescopes*. 2021, *ApJ*, 923, 127
46. Nikutta, R. **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N. A., Packham, C., Honig, S. F., Alonso-Herrero, A. *Hypercubes of AGN Tori (HYPERCAT) — I: Models and image morphology*. 2021, *ApJ*, 919, 136
47. [†] Tram, L. N., Hoang, T., **Lopez-Rodriguez, E.**, Coude, S., Soam, A., Andersson, B-G., Lee, M.-Y., Bonne, L., Vacca, W., Lee, H. *SOFIA observations of 30 Doradus: I - Far-infrared dust polarization and implications for grain alignment and disruption by radiative torques*. 2021, *ApJ*, 923, 130
48. Alonso-Herrero, A., Garcia-Burillo, S., Honig, S. F., Garcia-Bernete, I., Ramos Almeida, C., Gonzalez-Martin, O., **Lopez-Rodriguez, E.**, Boorman, P. G., Bunker, A. J., Burtscher, L., and 23 more. *The Galaxy Activity, Torus, and Outflows Survey (GATOS). II. Torus and polar dust emission in nearby Seyfert galaxies*. . 2021, *A&A*, 652, 99
49. Garcia-Burillo, S., Alonso-Herrero, A., Ramos Almeida, C., Gonzalez-Martin, O., Combes, F., Usero, A., Honig, S. F., Querejeta, M., Hicks, E., K. S., Hunt, L. K., Rosario, D., Davies, R., Borrmann, A. J., Burtscher, L., Colina, L., Diaz-Santos, T., Gandhi, P., Garcia-Bernete, I., Garcia-Lorenzo, B., Ichikawa, K., Imanishi, M., Izumi, T., Labiano, A., Levenson, N. A., **Lopez-Rodriguez, E.**, and 9 more. *The Galaxy Activity, Torus, and Outflow Survey (GATOS). I. ALMA images of dusty molecular tori in Seyfert galaxies*. 2021, *A&A*, 652, 98.
50. **Lopez-Rodriguez E.**, Guerra, J., Asgari-Targhi, M., Schmelz, J. *The strength and structure of the magnetic field in the galactic outflow of Messier 82*. 2021, *ApJ*, 914, 24.
51. **Lopez-Rodriguez, E.** *The magnetic field of the molecular warped disk of Centaurus A*. 2021 *Nature Astronomy*, 5, 604.
52. Pillai, T. G. S., Clemens, D. P., Reissl, S., Myers, P. C., Kaufmann, J., **Lopez-Rodriguez, E.**, Alves, F. O., Franco, G. A. P., Henshaw, J., Menten, K. M., Nakamura, F., Seifried, D., Sugitani, K., Weisenmeyer, H. *Magnetized filamentary gas flows feeding the young embedded cluster in Serpens South*. 2020, *Nature Astronomy*, 4, 1195.
53. Marin, F., Le Cam, J., **Lopez-Rodriguez, E.**, Kolehmainen, M., Babler, B. L., Meade, M. R. *The polarized spectral energy distribution of NGC 4151*. 2020, *MNRAS*, 496, 215
54. Roche, P. F., Lopez-Rodriguez, E., Telesco, C. M., Schodel, R., Packham, C. *High resolution imaging of the magnetic field in the central parsec of the Galaxy*. 2020, *P&SS*, 18304578
55. **Lopez-Rodriguez, E.**, Dowell, D. C., Jones, T. J., Harper, D. A., Berthoud, M., Chuss, D., Dales, D. A., Guerra, J. A., Hamilton, R. T., Loonet, L. W., Michail, J. M., Nikutta, R., Novak, G., Santos, F. P., Sheth, K., Staguhn, J., Stephens, I. W., Tassis, K., Trinh, C. Q., Ward-Thompson, D., Werner, M., Wollack, E. J., Zweibel, E. *SOFIA/HAWC+ traces the magnetic fields in NGC 1068*. 2020, *ApJ*, 888, 66
56. **Lopez-Rodriguez E.**, Alonso-Herrero, A., Garcia-Burillo, S., Gordon, M. S., Ichikawa, K., Imanishi, M., Kameno, S., Levenson, N. A., Nikutta, R., Packham, C. *ALMA polarimetry measures magnetically aligned dust grains in the torus of NGC 1068*. 2020, *ApJ*, 893, 33
57. Santos, F. P., Chuss, D. T., Dowell, D. C., Houde, M., Looney, L. W., **Lopez-Rodriguez, E.**, Novak, G., Ward-Thompson, D., Berthoud, M., Dales, D. A., Guerra, J. A., Hamilton R. T., Hanany, S., Harper, D. A., Henning, T. K., Jones, T. J., Lazarian, A., Michail, J. M., Morris, M. R., Staguhn, J., Stephens, I. W., Tassis, K., Trinh, C. Q., Van Camp, W., Volpert, C. G., Wollack, E. J. *The far-infrared polarization spectrum of Rho Ophiuchi A from HAWC+/SOFIA observations*. 2019, *ApJ*, 882, 113.
58. Jones, T. J., Dowell, D. C., **Lopez-Rodriguez, E.**, Zweibel, E. G., Benford, D. J., Berthoud, M., Chuss, D. T., Hamilton, R. T., Hanany, S., Harper, D. A., Houde, M., Lazarian, A., Looney, L. W., Michail, J. M., Novak, G., Santos, F. P., Seth, K., Stacey, G. J., Taguhn, J., Stephens, I. W., Tassis, K., Trinh, C. Q., Volpert, C. G., Werner, M., Wollack, E. J., HAWC+ Science Team. *SOFIA Far Infrared Imaging Polarimetry of M82 and NGC 253: Exploring the Super-Galactic Wind*. 2019, *ApJ*, 870, 9.

59. Farrah, D., et al. (**Lopez-Rodriguez, E.** 24th out of 36 authors). *Review: far-infrared instrumentation and technological development for the next decade*. 2019, JATIS, 5b0901F.
60. Chuss, D., Andersson, B-G, Bally, J., Dotson, J., L., Dowell, C. D., Guerra, J. A., Harper, D. A., House, M., Jones, T. J., Lazarian, A., **Lopez-Rodriguez, E.**, Michail, J. M., Morris, M. R., Novak, G., sikh, J., Staughn, J., Vaillancourt, J. E., Volpert, C. G., Werner, M., Wollack, E. J., Benford, D. J., Berthoud, M., Cox, Erin, G., Crutcher, R., Dale, D. A., Fissel, L. M., Goldsmith, P. F., Hamilton, R., T., Hanany, S., Henning, T. K., Looney, L. W., Moseley, S. H., Santos, F. P., Stephens, I., Tassis, K., Trihn, C. Q., Van Camp, E., Ward-Thomson, D. *HAWC+/SOFIA Multiwavelength Polarimetric Observations of OMC-1*, 2019, ApJ, 872, 187.
61. Fernandez-Ontiveros, J. A., Lopez-gonzaga, N., Prieto, M. A., Acosta-Pulido, J. A., **Lopez-Rodriguez, E.**, Tristram, K. R. W., Asmus, D. *Infrared Interferometry Unveils the Compact Jet at the Heart of the Prototypical Low-Luminosity AGN in NGC 1052*. 2019, MNRAS, 485, 5377
62. Martinez-Paredes, M., Aretxaga, I., Gonzalez-Martin, O., Alonso-Herrero, A., Levenson, N. A., Ramos Almeida, C., **Lopez-Rodriguez, E.** *Quantifying star formation activity in the inner 1 kpc of local MIR bright QSOs*. 2019, ApJ, 871, 190
63. $\text{\textcircled{g}}$ Fuller, L., **Lopez-Rodriguez, E.**, Packham, C., Ichikawa, K., Togi, A., Alonso-Herrero, A., Ramos Almeida, C., Diaz-Santos, T., Levenson, N., A., Radmoski, J. *SOFIA/FORCAST resolved 30/40 μm extended dust emission in nearby active galactic nuclei*. 2019, ApJ, 871, 190
64. Patiño-Álvarez, V. M., Fernandes, S., Chavushyan, V., **López-Rodríguez, E.**, León-Tavares, J., Schlegel, E. M., Carrasco, L., Valdés, J., Carramiñana, A. *Multiwavelength photometric and spectropolarimetric analysis of the FSRQ 3C 279*. 2018, MNRAS, 479, 2037
65. **Lopez-Rodriguez, E.**, Alonso-Herrero, A., Diaz-Santos, T., Gonzalez-Martin, O., Ichikawa, K., Levenson, N. A., Martinez-Paredes, M., Nikutta, R., Packham, C., Perlman, E., Ramos Almeida, C., Rodriguez-Espinosa, J. M., Telesco, C. M. *The origin of the mid-infrared nuclear polarization of active galactic nuclei*. 2018c, 478, 2350.
66. **Lopez-Rodriguez, E.**, Antonucci, R., Chary, R.-R., Kishimoto, M. *The Highly Polarized Dusty Emission Core of Cygnus A*. 2018b, 859, 99
67. **Lopez-Rodriguez, E.**, Fuller, L., Alonso-Herrero, A., Efstathiou, A., Ichikawa, K., Levenson, N. A., Packham, C., Radmoski, J., Ramos Almeida, C., Bedford, D. J., Berthoud, M., Hamilton, R., Harper, D., Kovacs, A., Santos, F. P., Staun, J., Herter, T. *The emission and distribution of dust of the torus of NGC 1068*, 2018a. ApJ, 859, 99
68. Harper, D. A., et al. (**Lopez-Rodriguez, E.**, 40th out of 67 authors). *HAWC+, the far-infrared camera and polarimeter for SOFIA*. 2018, JAI, 740008
69. Roche, P. F., **Lopez-Rodriguez, E.**, Telesco, C. M., Schidel, R., Packham, C. *The magnetic field in the central parsec of the Galaxy*. 2018, MNRAS, 476, 235
70. Martinez-Paredes, M., Aretxaga, I., Alonso-Herrero, A., Gonzalez-Martin, O., **Lopez-Rodriguez, E.**, Ramos Almeida, C., Asensio Ramos, A., Diaz Santos, T., Elitzur, M., Esquej, P., Hernan-Caballero, A., Ichikawa, K., Nikutta, R., Packham, C., Pereira-Santaella, M., Telesco, C. *The dusty tori of nearby QSOs as constrained by high-resolution mid-IR observations*, 2017, MNRAS, 468, 2
71. Ramirez, E., Aretxaga, I., Tadhunter, C. N., **Lopez-Rodriguez, E.**, Packham, C. *Direct HST lane detection in powerful narrow-line radio galaxies*. 2017, FrASS, 4, 5
72. Patiño-Alvarez, V. M., Fernades, Sunil, Chavusyan, V., **Lopez-Rodriguez, E.**, Leon-Tavares, J., Schlegel, E. M., Carrasco, L., Valdes, J. R., Carramiñana, A. *Multiwavelength variability analysis of 3C 279*. 2017, FrASS, 4, 47
73. **Lopez-Rodriguez, E.**, Packham, C., Jones, T. J., Siebenmorgen, R., Roche, P. F., Levenson, N. A., Alonso-Herrero, A., Perlman, E., Ichikawa, K., Ramos Almeida, C., Gonzalez-Martin, O., Nikutta, R., Martinez-Paredes, M., Shenoy, D., Gordon, M. S., Telesco, C. M. *Infrared polarimetry of Mrk 231: scattering off hot dust grains in the central core*, 2017, MNRAS, 464, 1762
74. $\text{\textcircled{g}}$ Fuller, L., **Lopez-Rodriguez, E.**, Packham, C., Ramos Almeida, C., Alonso-Herrero, A., Levenson, N. A., Radmoski, J., Ichikawa, K., Garcia-Bernete, I., Gonzalez-Martin, O., Diaz-santos, T., Martinez-Paredes, M. *Investigating the dusty torus of Seyfert galaxies using SOFIA/FORCAST photometry*, 2016, MNRAS, 462, 2618.

75. Garcia-Gonzalez, J., Alonso-Herrero, A., Hernan-Caballeto, A., Pereira, M., Ramos Almeida, C., Acosta-Pulido, J., Diaz-Santos, T., Esquej, P., Gonzalez-Martin, O., Ichikawa, K., **Lopez-Rodriguez, E.**, Povic, M., Roche, P., Sanchez, M. *The nuclear and integrated far-infrared emission of nearby Seyfert galaxies*, 2016, MNRAS, 458, 4512.
76. **Lopez-Rodriguez, E.**, Packham, C., Roche, P. F., Alonso-Herrero, A., Diaz-Santos, T., Nikutta, R., Gonzalez-Martin, O., Alvarez, C., Esquej, P., Rodriguez Espinosa, J. M., Perlman E., Ramos Almeida, C., Telesco, C. *Mid-infrared imaging- and Spectro-polarimetry of NGC 1068 using CanariCam*, 2016b, MNRAS, 458, 3851
77. **Lopez-Rodriguez, E.** *Dichroic polarization at mid-infrared wavelengths: a Bayesian approach*, 2016a, MNRAS, 456, 2656
78. Alonso-Herrero, A., Esquej, P., Roche, P. F., Ramos Almeida, C., González-Martín, O., Packham, C., Levenson, N. A., Mason, R. E., Hernán-Caballero, A., Pereira-Santaella, M., Alvarez, C., Aretxaga, I., **Lopez-Rodriguez, E.**, Colina, L., Díaz-Santos, T., Imanishi, M., Rodriguez Espinosa, J. M., Perlman, E. *A mid-infrared spectroscopic atlas of local active galactic nuclei on sub-arcsecond resolution*, 2016, MNRAS, 455, 563
79. Skidmore, W, TMT International Science Development Teams, Science Advisory Committee, TMT. *Thirty Meter Telescope Detailed Science Case: 2015*, 2015, RAA, 15, 1945 (Contributor of the Supermassive blackhole chapter: Polarimetry Science cases).
80. **Lopez-Rodriguez, E.**, Packham, C., Mason, R., Jones, T. J. J., Nikutta R., McMaster, L., Elvis, M., Alonso-Herrero, A., Ramírez, E., González-Martín, O., Honig, S. F., Levenson, N. A., Ramos Almedia, C., Perlman, E., Shenoy, D. *Near diffraction limited adaptive optics near-infrared imaging polarimetry of NGC 1068: A torus created by an hydromagnetic outflow wind*, 2015, MNRAS, 452, 1902
81. Shenoy, D., Jones, T. J., Packham, C., **Lopez-Rodriguez E.** *Probing Hypergiant Mass Lost with Adaptive Optics Imaging & Polarimetry in the Infrared: MMT-Pol and LMirCAM Observations of IRC+10420 & VY Canis Majoris*, 2015, ApJ, 150, 15
82. Ichikawa, K., Packham, C., Ramos Almeida, C., Asensio Ramos, A., Alonso-Herrero, A., González-Martín, O., **Lopez-Rodriguez, E.**, Ueda, Y., Díaz-Santos, T., Elitzur, M., Imanishi, M., Levenson, N. A., Mason, R. E., Perlman, E., Alsip, C. *The Difference of Torus Geometry between Hidden and Non-Hidden Broad Line Active Galactic Nuclei*, 2015, ApJ, 803, 571
83. Honda, M., Maaskant, K., Okamoto, Y. K., Kataza, H., Yamashita, T., Miyata, T., Sako, S., Fujiyoshi, T., Sakon, I., Fujiwara, H., Kamizuka, T., **Lopez- Rodriguez, E.**, Packham, C., T., Onaka, *High-resolution 25 μ m imaging of the disks around Herbig AeBe stars*, 2015, ApJ, 804, 143
84. **Lopez-Rodriguez, E.**, Packham, C., Tadhunter, C., Mason, R., Perlman, E., Alonso-Herrero, A., Ramos Almeida, C., Rodríguez-Espinosa, J. M., Ichikawa, K., Levenson, N. A., Álvarez, C., Telesco, C. M. *Polarized Mid-Infrared Synchrotron Emission in the Core of Cygnus A*, 2014, ApJ, 793, 81
85. Ramírez, E. A., Tadhunter, C. N., Axon, D., Batcheldor, D., Packham, C., **Lopez-Rodriguez, E.**, Sparks, W., Young, S. *Near-Infrared Hubble Space Telescope Polarimetry of a Complete Sample of Narrow-Line Radio Galaxies*, 2014, MNRAS, 444, 466
86. **Lopez-Rodriguez E.** *'A total and polarized infrared flux view of the AGN clumpy torus'* ProQuest Dissertations And Theses, Thesis (Ph.D.)--University of Florida, 2013.; Publication Number: AAT 3586381; ISBN: 9781303820106; Source: Dissertation Abstracts International, Volume: 75-07(E), Section: B.; 195 p.
87. **Lopez-Rodriguez, E.**, Packham, C., Young, S., Elitzur, M., Levenson, N. A., Mason, R. E., Ramos Almeida, C., Alonso-Herrero, A., Jones, T. J., Perlman, E. *New Insights into de Study of the Clumpy Torus of AGN using Near- Infrared Polarimetry*, 2013, EPS, 65, 1117
88. **Lopez-Rodriguez, E.**, Packham, C., Young, S., Elitzur, M., Levenson, N. A., Mason, R. E., Ramos Almeida, C., Alonso-Herrero, A., Jones, T. J., Perlman, E. *Estimations of the Magnetic Field Strength in the Torus of IC5063*. 2013, MNRAS, 431, 2723
89. Mason, R., **Lopez-Rodriguez, E.**, Packham, C., Alonso-Herrero, A., Levenson, N., Radomski, J., Ramos Almeida, C., Colina, L., Elitzur, M., Aretxaga, I., Roche, P., Oi, N. *The Nuclear Infrared Emission of Low-Luminosity Active Galactic Nuclei*, 2012, AJ, 144, 11

Non-refereed papers

1. Nuñez, A., Tahani, M., Clark, S. E., **Lopez-Rodriguez, E.**, Van Eck, C. L. *Consolidated Rotation Measure Catalog Update*. 2024, *RNNAS*, 8, 144.
2. Liu, D., Saintonge, A., Bot, C., Kemper, F., **Lopez-Rodriguez, E.**, Smith, M. W. L., Stanke, T., Andreani, P., Boselli, A., Cicone, C., Davis, T. A., Hagedorn, B., Lasrado, A., Mao, A., Viti, S., Booth, M., Klaassen, P., Mroczkowski, T., Bigiel, F., Chevance, M., Cordiner, M. A., Di Mascolo, L., Johnstone, D., Lee, M. M., Maccarone, T., Thelen, A. E., van Kampen, E., Wedemeyer, S. *Atacama Large Aperture Submillimeter Telescope (AtLAST) science: Gas and dust in nearby galaxies*. ArXiv:2403.01202.
3. Booth, M. et al. (**Lopez-Rodriguez E.**, co-author of 84 authors). *AtLAST Science Overview Report*. ArXiv:2407.01413.
4. Staguhn, J., Hensley, B., Smith, J.-D., Armus, L., Bisgello, L., Bolatto, A., Ciesla, L., Dowell, C., Egami, E., Gruppioni, C., Hayward, C., **Lopez Rodriguez, E.**, McKinney, J., Roman-Duval, J., Sauvage, M., Shivaiei, I., Whitcomb, C., Glenn, J., Meixner, M., Bradford, C., Pope, A., Pontoppidan, K., Prima Science Team. *PRIMA: Studying the Rise of Dust and Metals Throughout Cosmic Times*. 2024, *AAS*, 24345702.
5. Martin-Alvarez, S., **López Rodríguez, E.** *A tomographic view of far infrared and radio polarimetric observations through MHD simulations of galaxies*. 2024, *AAS*, 24342706.
6. Sargent, W. **Lopez-Rodriguez, E.**, Clark, S. *Characterizing the Structure of Magnetic Fields in Spiral Galaxies with Radio and Far-Infrared Polarimetric Observations*. 2024, *AAS*, 24342705.
7. Guerra Aguilera, J., **Lopez-Rodriguez, E.**, Chuss, D., Butterfield, N., Schmelz, J. *Magnetically-structured accretion in the Galactic Center's Circumnuclear Disk*. 2024, *AAS*, 24342003.
8. **López Rodríguez, E.**, Geach, J., Chen, J., Doherty, M., Ivison, R., Bendo, G., Dye, S., Coppin, K. *Detection of the furthest magnetic field in a galaxy at redshift 2.6*. 2024, *AAS*, 24332508.
9. Dowell, C., D., Borlaff, A., Jones, T., Kim, J.-A., **Lopez-Rodriguez, E.** *Extragalactic magnetic fields mapper in the far infrared with HAWC+ on SOFIA*. 2023, *AAS*, 24211702
10. **Lopez-Rodriguez, E.** *On the origin of radio-loudness in active galactic nuclei using far-infrared polarimetric observations*. 2023, *AAS*, 24131006
11. Hensley, B., Roman-Duval, J., **Lopez-Rodriguez, E.**, Battersby, C., Beuther, H., Clark, S., Fissel, L., Rosolowsky, E., Bradford, C., Burgarella, D., Ciesla, L., Glenn, J.,; Pope, A. *PRIMA: Determining the composition of interstellar dust with polarimetric imaging*. 2023, *AAS*, 24116025
12. **Lopez Rodriguez, E.**, Hensley, B., Prima Team, *PRIMA: Studying the magnetic fields in galaxies*. 2023, *AAS*, 24116013
13. Li, P. S., **Lopez-Rodriguez, E.**, Soam, A., Klein, R. *The role of magnetic fields in the stability and fragmentation of filamentary clouds: two case studies in OMC-3 and OMC-4*. 2022, *AAS*, 24022802
14. Guerra, J., **Lopez-Rodriguez, E.**, Chuss, D., Butterfield, N., Schmelz, J. *The effect of shear flows on the Davis-Chandrasekhar-Fermi approximation*. 2022, *AAS*, 24014309
15. Marin, F., Barnouin, T., **Lopez-Rodriguez, E.** *The best broths are cooked in the oldest pans: revisiting the archival HST/FOC observations of quasars*. 2022, Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics, 109 (arXiv:220106419)
16. Leist, M., Fuller, L., Grosset, L., **Lopez-Rodriguez, E.**, Packham, C. *Deconstructing mid-infrared emission sources in active galactic nuclei*. 2021, *AAS*, 23812905
17. **Lopez-Rodriguez, E.** *A new era of measuring magnetic fields in galaxies*. 2021, *AAS*, 23810101
18. Nikutta, R., **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N., A., Packham, C. *Hypercat - hypercubes of AGN tori*. 2021, *IAUS*, 356, 44
19. **Lopez-Rodriguez, E.** *The magnetic field across the warped molecular disk of Centaurus A*. 2021, *AAS*, 23743003
20. Borlaff, A. S., **Lopez-Rodriguez, E.**, Grosset, L., Marcum, P. M., Beckman, J. E., Hughes, A., Stepanov, R. *The multi-phase spiral magnetic field of M51*. 2021, *AAS*, 23743001
21. Grosset, L., **Lopez-Rodriguez, E.** *Magnetic field in the central region of the Circinus galaxy with SOFIA/HAWC+*. 2021, *AAS*, 23730807
22. Coude, S., Tram, L. N., **Lopez-Rodriguez, E.**, Soam, A., Andresson, B.-G., Vacca, W., gordon, M. *Dust alignment and magnetic fields in the 30 Doradus star-forming region*. 2021, *AAS*, 23730605

23. Guerra, J., **Lopez-Rodriguez, E.**, Schmelz, J., Asgari-Targhi, M. *Magnetic field of the galaxy M82*. 2021, AAS, 23722805
24. Martinez-Paredes, M., Alonso-Herrero, A., Gonzalez-Martin, O., Levenson, N. A., **Lopez-Rodriguez, E.**, Packham, C. *The subarcsecond nuclear NIR and MIR emission of nearby QSOs*. 2021, GTBI conf., 32
25. Roche, P. F., **Lopez-Rodriguez, E.**, Telesco, C. M., Schodel, R., Packham, C. *Higher resolution imaging of the magnetic field in the central parsec of the Galaxy*. 2020, P&SS, 18304578R
26. Nikutta, R., **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N. A., Packham, C. *HYPERCAT-Hypercubes of AGN Tori*. 2020, ASPC, 522, 235
27. Gordon, M. S., **Lopez-Rodriguez, E.**, Vacca, W., Clarke, M. *Scan-mapping polarimetry with SOFIA/HAWC+*. 2020, AAS, 23543709G
28. Coude, S., Gordon, M., **Lopez-Rodriguez, E.**, Vacca, W., Chambers, E., Soam, A., Andersson, B.-G. *The dynamics of the 30 Doradus star-forming region as probed with far-infrared polarimetry*. 2020 AAS, 23536105C
29. **Lopez-Rodriguez, E.**, Alonso-Herrero, A., Garcia-Burillo, S., gordon, M., Ichikawa, K., Imanishi, M., Kameno, S., Levenson, N. A., Nikutta, R., Packham, C. *The magnetic field of the torus of NGC 1068 as seen by ALMA polarimetry*. 2020, AAS, 235146603
30. **Lopez-Rodriguez, E.**, Nikutta, R., Levenson, N. A., Packham, C., Hicks, E. S., Ichikawa, K., Laha, S., Malkan, M., Ricci, C., U, V., Juneau, S. *Tracing the feeding and feedback of active galaxies* 2019, BAAS, 51, 138 (White paper for Astro2020)
31. Reach, W., Jackson, J., Yorke, H., Rangwala, N., **Lopez-Rodriguez, E.**, Pineda, J., Dowell, D. A. *Far-infrared studies of galaxy evolution*. 2019, BAAS, 51, 216 (White paper for Astro2020).
32. Jackson, J., Reach, W., Yorke, H., Ennico-Smith, K., Rangwala, N., **Lopez-Rodriguez, E.**, Klein, R., Pontopissan, K., Melnick, G., Bergin, E., Destefano, R. *Far-infrared studies of star and planet formation*. 2019, BAAS, 51, 205 (White paper for Astro2020)
33. **Lopez-Rodriguez, E.**, Antonucci, R., Chary, R.-R., Kishimoto, M. *On the role of magnetic fields around magnetic fields*. 2019, AAS, 23323305
34. Gordon, M. S., **Lopez-Rodriguez, E.**, Andersson, B.-G., Clarke, M., Coude, S., Moullet, A., Richards, S. N., Shuping, R. Y., Vacca, W., Yorke, H. *SOFIA Community Science I: HAWC+ Polarimetry of 30 Doradus*. 2018, ArXiv:181103100
35. Packham, C., et al. (19th of 19 authors). *The key science drivers for MICH1: a thermal-infrared instrument for TMT*. 2019, AAS, 23314606
36. Kimberly, E., Bergin, E., Yorke, H., Rangawala, N., Reach, W., **Lopez-Rodriguez, E.**, Chambers, E., Novak, G., Stutzki, J. *Future studies in star and planet formation with HAWC+, GREAT, and HIRMES. cosp, 2018, 42, 987*
37. Packham, C., et al. (19th of 19 authors). *The key science drivers for MICH1: a thermal-infrared instrument for TMT*. 2018, SPIE, 10702.
38. Nikutta, R., **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N. A., Packham, C., *Hypercat - Hypercubes of AGN tori*. 2018, AAS, 2324016
39. Fuller, L., **Lopez-Rodriguez, E.**, Packham, C., Ichikawa, K., Togi, A. *SOFIA/FORCAST resolves 30-40 um extended emission in nearby AGN*. 2018, AAS, 23220302
40. Andersson, B.-G., Hoang, T., **Lopez-Rodriguez, E.**, Vaillancourt, J., Sankrit, R., Lazarian, A., HAWC+ instrument team. *SOFIA/HAWC+ polarization in the envelope of IRC+10216*. 2018, AAS, 23141404
41. Santos, F., Dowell, C. D., Houde, M., Looney, Leslie, **Lopez-Rodriguez, E.**, Novak, G., Eward-Thompson, D., HAWC+ Science Team. *HAWC+/SOFIA observations of Rho Oph A: far-infrared polarization spectrum*. 2018, AAS, 23113004
42. **Lopez-Rodriguez, E.**, HAWC+ Science team. *A far-infrared view of active galactic nuclei with SOFIA/HAWC+*. 2018, AAS, 23112307
43. Fuller, L., **Lopez-Rodriguez, E.**, et al. (12 authors) *Investigating the dusty torus of Seyfert galaxies using SOFIA/FORCAST photometry*. 2017, AAS, 23040102
44. Nikutta, R., **Lopez-Rodriguez, E.**, Ichikawa, K., Levenson, N. A., Packham, C. *Hypercat - Hypercube of clumpy AGN tori*. 2017, AAS, 230301306

45. Fernandes, S., Patiño-Alvarez, V., Chavushyan, V., Schlehel, E., **Lopez-Rodriguez, E.**, Leon-Tavares, J., Carrasco, L., Valdes, J., Carramiñana, A. *Multiwavelength and polarimetric analysis of the flat spectrum radio quasars 3C 273 and 3C 279*. 2016, AAS, 22925029
46. Wright, S., Walth, G, Do, T., Marshall, D., Larkin, J. E., Moore, A. M., Adamkovics, M., Andersen, D., Armus, L., Barth, A., Cote, P., Cooke, J., Chisholm, E. M., Davidge, T., Dunn, J. S., Dumas, C., Ellerbroek, B. L., Ghez, A. M., Hao, L., Hayano, Y., Liu, M., **Lopez-Rodriguez, E.**, Lu, J. R., Mao, S., Marois, C., Pandey, S. B., Phillips, A. C., Schoeck, M., Subramaniam, A., Subramaniam, S., Suzuki, R., Tan, J. C., Terai, T., Treu, T., Simard, L., Weiss, J. L., Wincentsen, J., Wong, M., Zhang, K. *The infrared imaging spectrograph (IRIS) for TMT: latest science cases and simulations*. 2016, SPIE, 9909, 05
47. Fuller, L., **Lopez-Rodriguez, E.**, Packham, C., Los Piratas. *31.5 um imaging observations of AGN using SOFIA/FORCAST*, 2016, AAS, 22733601F
48. Levenson, N., Ichikawa, K., **Lopez-Rodriguez, E.**, Nikitta, R., Packham C., Alonso-Herrero, A. *Dust obscuration and observable emission of active galactic nuclei*. 2016, AAS, 22730305L.
49. *Thirty Meter Telescope Detailed Science Case: 2015*. Skidmore et al. 2015. ArXiv:1505.01195. (Contributor of the Supermassive blackhole chapter: Polarimetry Science cases)
50. Patiño-Álvarez, V., Chavushyan, V., León-Tavares, J., Carramiñana, A., Carrasco, L., Fernandes, S., Schlegel, E. M., **Lopez-Rodriguez, E.** *Multiwavelength variability analysis of the FSRQ 3C 279*, 2015, IAUS, 313, 89
51. Shenoy, D., Jones, T. J., Packham, C., **Lopez-Rodriguez, E.**, Warner, C., Krejny, M. M., DeWahl, K. *Imaging Polarimetry of the Yellow Hypergiant IRC+10420 at 2.2 μm with MMTPOL*, 2014, AAS, 22315419
52. González-Martín, O., Díaz-Santos, T., Rodríguez-Espinosa, J. M., Packham, C., Alonso-Herrero, A., Esquej, P., Levenson, N., **Lopez-Rodriguez, E.**, Mason, R., Ramos Almeida, C., Telesco, C. M. *RedCan: CanariCam Pipeline for the Reduction and Analysis of the Spectroscopic Data*, 2013, RMxAC, 42, 118
53. Li, D., **Lopez-Rodriguez, E.**, Pantin, E., Varosi, F., Telesco, C., Packham, C. *IdealCam: An IDL GUI Package for CanariCam Data Reduction and Analysis*, 2013, RMxAC, 42, 117
54. **Lopez-Rodriguez, E.**, Packham, C., Young, S., Elitzur, M., Levenson, N. A., Mason, R. E., Ramos Almeida, C., Alonso-Herrero, A., Jones, T. J., Perlman, E. *New Insights into the Study of the Clumpy Torus of AGN using Near-Infrared Polarimetry*, 2012, torus workshop, 78
55. Packham, C., Jones, T. J., Krejny, M., Dewahl, K., Warner, C., **Lopez-Rodriguez, E.** *Progress on MMT-POL: the 1-5 μm Adaptive Optics Optimized Polarimeter for the MMT*, 2010, SPIE, 7735, 215.
56. Packham, C., Jones, T. J., Warner, C., Krejny, M., Shenoy, D., Vonderharr, T., **Lopez-Rodriguez, E.**, DeWahl, K. *Commissioning results of MMT-POL: the 1-5um imaging polarimeter leveraged from the AO secondary of the 6.5m MMT*, 2012, SPIE, 8446, 3
57. Mason, R., **Lopez-Rodriguez, E.**, Packham, C., Alonso-Herrero, A., Levenson, N., Radomski, J., Ramos Almeida, C., Colina, L., Elitzur, M., Aretxaga, I., Roche, P., Oi, N. *The Nuclear Infrared Emission of Low-Luminosity Active Galactic Nuclei*, 2012, JPhCS, 372.
58. Garcia-Temich, F., García-Lorenzo, B., Padilla-Michel, Y., Escobar-Romero, J. F. M., Fuensalida, J. J., Rodríguez-Hernández, M. A. C., Rasilla, J. L., Kuckein, C., **Lopez-Rodriguez, E.** *Testing Commercial Variable Fiber Attenuators and Lenslet Arrays for Equalized Integral Field Spectroscopy Applications*, 2008, SPIE, 7014, 142.