

# LeaMarcotulli

astrophysicist

## interests

blazars, AGNs, black holes, populations study,  $\gamma$ -NLSys, high-energy astrophysics, radiative processes, SED modeling, jets, outreach

## about

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8472-3649  
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## citizenship

italian/french

## languages

italian/french/english  
spanish notions

## facilities

Fermi-LAT  
NuSTAR, XMM  
Swift-XRT, Chandra  
Keck-LRIS  
Keck-OSIRIS  
NASA-IRTF

## astro-software

HEASOFT, XSPEC  
DS9, TopCAT  
fermipy, CIAO  
SpeXtools, IRAF

## appointments

2021-pres **NASA Hubble Fellowship (NHFP) Einstein Fellow** Yale University

## education

2017-2021 **Ph.D.** in Physics Clemson University  
*Chasing supermassive black holes at the dawn of the Universe*  
Advisor: professor M. Ajello  
2015-2017 **M.Sc.** in Physics Clemson University  
*High-redshift blazars through NuSTAR eyes*  
Advisor: professor M. Ajello  
2012-2015 **B.Sc.** in Astrophysics (110/110) Università di Astronomia, Bologna  
*Teorema del Viriale (*The virial theorem*)*

## honors and awards

2021 **NASA Hubble Fellowship**, \$280k NASA  
2020 Outstanding Graduate in Engagement Award, \$1k CoS, Clemson University

## outreach

2021- pres. **YouTube Channel** - (*On*) Planet Nine  
2022- pres. **Skype a Scientist**  
Nov. 2020 **TEDx-Greenville** - *The biggest baddest black holes*  
Nov. 2020 3 Minute Thesis Competition Clemson Graduate School  
Feb. 2019 Science Fair Volunteer Judge Clemson Elementary School  
Feb. 2018 College of Science Donors' dinner Clemson University  
Feb. 2018 Clemson Science Day for Elementary Schools Clemson University  
May 2017 Eclipse over Clemson Clemson Child Development Center  
2016-2017 Planetarium Shows Clemson University

## publications

**Total: first author - 4; co-author - 16; h-index - 11**

First author:

*Swift-BAT blazars and their jets through cosmic time* ApJ submitted  
May 2020 *Source-count Distribution of Gamma-Ray Blazars* ApJ, Vol. 896, Id. 6  
Jan. 2020 *NuSTAR perspective on high-redshift MeV blazars* ApJ, Vol. 889, Id. 164  
Mar. 2017 *High-redshift blazars through NuSTAR eyes* ApJ, Vol. 839, Id. 96

## awarded research fundings

**Total as PI: \$ 246k**

2021	<i>Fermi-LAT</i> proposal 141104	\$75k
2020	<i>NuSTAR</i> proposal 6248	\$74k
2019	<i>NuSTAR</i> proposal 5193	\$70k
2019	<i>XMM-Newton</i> proposal 86233	\$15k
2019	Graduate Student Travel Award	\$750
2018	<i>NuSTAR</i> proposal 4301	\$10k
2018	Graduate Student Travel Award	\$750

## awarded observing time

**Total as PI: X-ray - 310 ks; IR - 8.5 nights; optical - 3 night**

2021	Palomar, 2022A semester	3 nights
2021	Keck-LRIS, 2022A semester	1 night
2021	Keck-LRIS, 2021B semester	1 night
2020	<i>Swift</i> ToOs 14716	4 ks
2020	Keck-LRIS, 2021A semester	1 night
2020	NASA Infrared Telescope Facility (IRFT) proposal 2020B113	1.5 nights
2020	Keck-OSIRIS, 2020B semester	1 night
2020	<i>NuSTAR</i> proposal 6248	50 ks
2020	NASA Infrared Telescope Facility (IRFT) proposal 2020A093	3 nights
2019	<i>XMM-Newton</i> proposal 86233	116 ks
2019	<i>Swift</i> ToOs 12513, 13013	8 ks
2019	<i>NuSTAR</i> proposal 5193	61 ks
2018	<i>Swift</i> ToOs 10914, 11154	8 ks
2018	<i>NuSTAR</i> proposal 4301	63 ks

## press releases

Jan. 2021	(On) Planet Nine	Clemson Newsstand
Apr. 2021	2021 NASA Hubble Fellowship	NASA
Apr. 2021	Clemson student receive prestigious NHFP	Clemson Newsstand
Mar. 2021	Women in STEM	Clemson Newsstand
Sep. 2020	2020:Brain Candy-Virtual TEDx	Clemson Newsstand
Jan. 2020	2020:Brain Candy	TEDx-Greenville
Nov. 2019	Hubble constant in $\gamma$ -rays	Media INAF
Nov. 2019	How quickly is the Universe expanding	Clemson Newsstand
Mar. 2017	Five early universe $\gamma$ -ray blazars	Greenville Journal
Feb. 2017	The most power-packed galaxies	Clemson Newsstand

## meeting organized

2021-2022	<b>BLAST Workshop</b>	Virtual
2020-2021	MOSCA Meeting	Virtual
March 2019	Meeting of Astronomers in South Carolina (MASC)	Clemson University
Oct. 2018	Time Domain Astrophysics with Swift	Clemson University
2018-2019	Astrophysics seminar: Local Group (LG) meeting	Clemson University
Aug. 2018	SIRPA	Clemson University

## invited talks

Feb 2022	Astro Seminar, CCPP	New York City
Dec 2021	BLAST workshop	Virtual
Nov 2021	Seminar, University of Würzburg	Virtual
May 2021	COSI Journal Club	Virtual
Feb. 2021	IRA-OAS seminar	Virtual, Bologna University
Feb. 2021	CCAPP seminar	Virtual, Ohio State University
Jan. 2021	237th AAS Splinter Session - MeV Astronomy	Virtual
Jan. 2020	Galaxy Lunch	Yale University
Nov. 2019	KIPAC Tea Talk	Stanford University
Oct. 2019	Seminar Talk	UMBC
Apr. 2017	KIPAC Tea Talk	Stanford University

## collaboration membership

2020-pres. AMEGO & AMEGO-X Collaborations  
 2019-pres. BASS Collaboration  
 2016-pres. *Fermi*-LAT Collaboration

## referee contribution

1	Publication of the Astronomical Society of Japan (PASJ)
1	Monthly Notices of the Royal Astronomical Society (MNRAS)
2	Astrophysical Journal (ApJ)
1	Internal referee for the <i>Fermi</i> -LAT Collaboration

## mentoring

2020-2021	Co-advisor of undergraduate student Adam Vendrasco	
2019-2020	Mentor of graduate student Ross Silver	ApJ, Vol. 902, Id. 23
2018-2019	Mentor of graduate student Meenakshi Rajagopal	ApJ, Vol. 889, Id. 102
2016-2017	Mentor of graduate student Xiurui Zhao	ApJ, Vol. 870, Id. 60
2016	Mentor of undergraduate student Luke Tremblay	ApJ, Vol. 848, Id. 53

## visiting scientist positions

Oct. 2019	NASA Goddard Science Space Center	Washington D.C.
July 2017	Stanford University	Stanford, CA
Apr. 2017	Stanford University	Stanford, CA

## leadership

2017-2018	President	Physics & Astronomy Graduate Student Organization
2016-2017	Vicepresident	Physics & Astronomy Graduate Student Organization

## conferences

**Contributed talks: 16; Contributed Poster: 1; Session Chair:2**

Most recent contributions:

Oct. 2021	NHFP symposium	Virtual
Sept. 2021	Fermi Collaboration Meeting	Virtual
Jul. 2021	ICRC 2021	Virtual
Apr. 2021	APS April Meeting	Virtual
Jan. 2021	237th AAS - <i>Dissertation Talk and Session Chair</i>	Virtual
Dec. 2020	AMEGO-X Meeting	Virtual
Aug. 2020	BASS Collaboration Meeting	Virtual
Jan. 2020	235th AAS - <i>Presenter and Poster Session Chair</i>	Honolulu, HI

## teaching

2016-2019 Guest Lecturer - ASTR3030; ASTR3020; ASTR1010  
2016-2017 Teaching assistant - Astro. Lab. ASTR1030; ASTR1040  
2015-2016 Teaching assistant - Physics Lab. PHYS2100; PHYS2090

Clemson University  
Clemson University  
Clemson University