

SEBASTIAN GOMEZ
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Appointments

STScI Prize Postdoctoral Fellow - Space Telescope Science Institute <i>(50% independent science + 50% work for Roman Space Telescope)</i>	2021 - present
NSF Graduate Fellow / Graduate Research Assistant - Harvard University	2015 - 2021
GROW Fellow - Netherlands Institute for Space Research	2017
LAMAT Intern - University of California, Santa Cruz	2014
MSRP Intern - Massachusetts Institute of Technology	2013
Undergraduate Research Assistant - The University of Texas at El Paso	2012 - 2014

Education

Ph.D. from Harvard University in Astronomy and Astrophysics <i>Advisor: Prof. Edo Berger</i> <i>Thesis: Exotic Transients and How to Find Them</i>	2021
M. A. from Harvard University in Astronomy and Astrophysics <i>Advisor: Prof. Jonathan Grindlay</i>	2017
B.S. from The University of Texas at El Paso (UTEP) in Physics - <i>Summa Cum Laude</i> <i>Advisors: Prof. Paul Mason & Prof. Edward Robinson</i> <i>Thesis: The Case for a Low Mass Black Hole in the X-ray Binary V1408 Aquilae</i>	2015
Tecnológico de Monterrey, Ciudad Juárez, México: High School	2011

Research Experience

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- Research experience on optical observations of **Exotic Transients, Superluminous Supernovae, Tidal Disruption Events**, follow-up of **Gravitational Waves** sources, **Machine Learning** methods to optimize transient searches, and modeling light curves of **X-ray Binaries** and **Cataclysmic Variables**.
 - **Advising** experience **Mentoring** high school and undergraduate students on time-domain research, and **Teaching** and developing workshops on methods of observational astronomy and Python programming.

Professional Experience

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- Technical experience working for the **Nancy Grace Roman Space Telescope** at STScI on scientific validation of **Image Simulations**, code development, and database development.
 - Current **Deputy Lead** of the Roman Telescope Branch simulations block: a group of 10 people overseeing the development of simulation products for the Roman mission.

Selected Awards

Recognition award for "outstanding efforts overseeing the release of STIPS" (STScI)	2022
Derek Bok Distinction in Teaching Certificate (Harvard University)	2018
NSF Graduate Research Opportunities Worldwide (GROW) grant	2017
NSF Graduate Research Fellowship (GRFP)	2015 - 2018
Academic and Research Excellence Undergraduate Student in Physics at UTEP	2015
Chambliss Astronomy Achievement Student Medal awarded by the AAS	2014
NIH Maximizing Access to Research Careers (MARC) full ride scholarship	2013 - 2015
American Physical Society Minority Scholarship	2012 - 2013

Observing Experience

McDonald Observatory 82" Otto Struve / ARGOS + ProEM (**10+ nights**); MMT Observatory / Blue channel Spectrograph + MMTCam (**10+ nights**); Magellan / LDSS3c + IMACS (**8 nights**); Fred Lawrence Whipple Observatory 48" / KeplerCam (**4 nights**); Roque de los Muchachos William Hershel Telescope / ISIS + ACAM (**4 nights**); McDonald Observatory 107" Harlan J. Smith / ARGOS (**3 nights**); Fred Lawrence Whipple Observatory 60" / FAST (**2 nights**).

Telescope Proposals Accepted as PI

<u>Magellan 6.5m</u> 16 nights (6 proposals)	<u>Hubble Space Telescope</u> 7 orbits (PID: GO 15863)
<u>MMT 6.5m</u> 15 nights (4 proposals)	<u>Very Large Array</u> 2 hours (PID: 20A-409)
<u>McDonald Observatory 82" Otto Struve</u> 5 nights (1 proposal)	24 hours (PID: 24A-368)
<u>Gemini Observatory 8.1m</u> 14.9 hours (PID: GN-2023B-Q-241)	<u>Las Cumbres Observatory 1m</u> 1 night (PID: 2017B-0057)
5.0 hours (PID: GS-2023B-Q-232)	<u>SOAR 4.1m</u> 20 hours (ID: SOAR2023B-007)
3.6 hours (PID: GN-2023B-Q-240)	20 hours (ID: SOAR2023A-009)
11.4 hours (PID: GS-2022B-Q-323)	<u>F. L. Whipple Observatory 48"</u> 12 nights (4 proposals)
6 hours (PID: GS-2021B-FT-208)	<u>F. L. Whipple Observatory 60"</u> 5 nights (4 proposals)
2 hours (PID: GN-2019A-DD-103)	
2.7 hours (PID: GN-2019A-FT-201)	
1.2 hours (PID: GN-2018A-FT-212)	

Teaching

Teaching Fellow : Methods of Observational Astronomy <i>Harvard University (Prof. Edo Berger)</i>	Spring 2019
Teaching Fellow : Methods of Observational Astronomy <i>Harvard University (Prof. Edo Berger)</i>	Spring 2018
Teaching Fellow : The Unity of Science, From the Big Bang to the Brontosaurus <i>Harvard University (Prof. Irwin Shapiro)</i>	Spring 2017
Course designer and Instructor : The UNIX Command Line <i>Banneker Institute, Harvard University</i>	Summer 2016

Research Mentoring

Primary advisor for undergraduate student Grace Sweetak <i>Space Telescope Science Institute</i>	2023 - present
Primary supervisor for undergraduate student Hanna Al-Kowski <i>Space Telescope Science Institute</i>	2022-2023
Primary advisor for undergraduate student Yao Yin <i>Harvard University - 1 peer reviewed publication</i>	2019 - 2023
Co-advisor for high school student Sophie von Coelln <i>Space Telescope Science Institute</i>	Summer 2022
Co-advisor for undergraduate student Kyle Dalrymple <i>Space Telescope Science Institute</i>	Summer 2022
Co-advisor for undergraduate student Natasha Abrams <i>Harvard University - 2 peer reviewed publications</i>	2018 - 2020

Outreach and Service

Referee for: *ApJ*, *MNRAS*, *Nature Astronomy*, *A&A*, *Universe*, and *PASP*

Mentor for the JHU/STScI Joint Mentorship Program	2023 - present
Organizer for Astronomy on Tap, Baltimore	2022 - present
Moderator for Roman Science Inspired by Emerging JWST Results Conference, STScI	2023
Moderator for Transient Universe with Roman Conference, STScI	2022
Member of STScI Fellowship Selection Committee	2022
Peer Review Facilitator during Chandra Cycle 18 & 21	2016, 2019
Mentor and Instructor - Banneker Institute, Harvard University <i>Program designed to prepare undergraduate students of color for graduate programs.</i>	2016 - 2018
Member of Application Review Committee for the MIT Summer Research Program	2016 - 2019
Leader for the Harvard Observing Project <i>A project to get local undergraduates involved in doing real astronomical observations.</i>	2016 - 2020
Physics Circus organizer for over a dozen events in El Paso, Texas.	2011 - 2014

Presentations

Invited Conference Talk	Anticipating the Rising Tide of TDEs, KITP, California, 2024 (<i>Upcoming</i>)
Invited Outreach Talk	New Vistas in Astronomy + Hablemos de Astronomía, Arizona, 2024 (<i>Upcoming</i>)
Invited Outreach Talk	AAVSO Seminars, La Ciencia del Cielo Para Principiantes, 2023 (virtual)
Conference Talk	SuperNova EXplosions Conference, Technion Institute, Haifa, Israel, 2023
Invited Conference Talk	EAS Superluminous Supernovae Near and Far, Krakow, Poland, 2023
Conference Talk	eXtreme Black Holes, Aspen Conference, Aspen, 2023
Conference Talk	Boom! Explosive Transients with LSST, Urbana-Champaign, IL., 2022
Conference Talk	Roman Science Team Community Briefing, STScI, 2022 (virtual)
Invited Outreach Talk	Mars Generation, ITESM, Ciudad Juárez, Mexico, 2021 (virtual)
Invited Outreach Talk	JPL Solar System Ambassadors, Las Cruces, NM, 2021 (virtual)
Invited Outreach Talk	Harmony High School, El Paso, TX, 2021 (virtual)
Invited Talk	Compact Objects and Supernovae Journal Club, STScI, 2020
Talk	Lunch Talk, Carnegie Observatories, 2020
Talk	Science Happy Hour, Northwestern University, 2020
Talk	BigBoom Meetings, University of Arizona, 2020
Talk	Astro Lunch, University of Washington, 2020
Talk	Galread Extragalactic Discussion Group, Princeton University, 2020
Talk	Center for Theory and Computation Seminar, University of Maryland, 2020
Invited Colloquium	SRON Colloquia, Utrecht, Netherlands., 2020
Invited Talk	ITC Luncheon, Harvard University, Cambridge, MA., 2019
Conference Talk	Hotwiring the Transient Universe Conference, Evanston, IL., 2019

Memberships and Affiliations

American Astronomical Society	Global Supernova Project
International Astronomical Union	LSST Collaboration (TVS)
Transient Science @ Space Telescope	Young Supernova Experiment

Technical Skills

<u>Software</u>	<u>Languages</u>
Data analysis: IRAF, PyRAF, ISIS, PHOEBE, Molly	Spanish (Native proficiency)
Other Software: LaTeX, Adobe Creative Suite.	English (Bilingual proficiency)
Programming languages: Python, S-Lang, HTML	ASL (Limited working proficiency)

First-Author Refereed Publications

12. **Gomez, S.**, & Gezari S. ApJ, 955, 46 2023
The Search for Thermonuclear Transients from the Tidal Disruption of a White Dwarf by an Intermediate Mass Black Hole
11. **Gomez, S.**, Berger, E., Blanchard, P. K., Hosseinzadeh, G., Nicholl, M., et al. ApJ, 949, 114 2023
The First Two Years of FLEET: an Active Search for Superluminous Supernovae
10. **Gomez, S.**, Villar, V. A., Berger, E., Gezari, S., van Velzen, S., et al. ApJ, 949, 113 2023
Identifying Tidal Disruption Events with an Expansion of the FLEET Machine Learning Algorithm
9. **Gomez, S.**, Berger, E., Nicholl, M., Blanchard, P.K., & Hosseinzadeh, G. ApJ, 941, 107 2022
Luminous Supernovae: Unveiling a Population Between Superluminous and Normal Core-collapse Supernovae
8. **Gomez, S.**, Berger, E., Hosseinzadeh, G., Blanchard, P.K., Nicholl, M., et al. ApJ 913, 143 2021
The Luminous and Double-Peaked Type Ic Supernova 2019stc: Evidence for Multiple Energy Sources
7. **Gomez, S.**, M.A.P., Torres, Jonker, G. P., et al. MNRAS, 502, 48 2021
Dynamical Modeling of CXOGBS J175553.2-281633: A 10 Hour Long Orbital Period Cataclysmic Variable
6. **Gomez, S.** & Grindlay, E. J. ApJ, 913, 48 2021
Optical Analysis and Modeling of HD96670, a Black Hole X-ray Binary Candidate in a Triple System
5. **Gomez, S.**, Berger, E., Blanchard, P. K., Hosseinzadeh, G., Nicholl, M., et al. ApJ, 904, 74 2020
FLEET: A Redshift-Agnostic Machine Learning Pipeline to Rapidly Identify Hydrogen-Poor Superluminous Supernovae
4. **Gomez, S.** et al. MNRAS, 497, 1925 2020
The Tidal Disruption Event AT 2018hyz II: Light Curve Modeling of a Partially Disrupted Star
3. **Gomez, S.**, et al. ApJ, 884, 55 2019
A Galaxy-Targeted Search for the Optical Counterpart of the Candidate NS-BH Merger S190814bv with Magellan
In the news: [Gizmodo](#)
2. **Gomez, S.**, Berger, E., Nicholl, M., Blanchard, P. K., Villar, et al. ApJ, 881, 87 2019
SN 2016iet: The Pulsational or Pair Instability Explosion of a Low-metallicity Massive CO Core Embedded in a Dense Hydrogen-poor Circumstellar Medium
In the news: [Quanta Magazine](#), [Discover](#), [National Geographic](#), [Astronomy.com](#), [Gizmodo](#)
1. **Gomez, S.**, Mason, P. A., & Robinson, E. L. ApJ, 809, 9 2015
The Case for a Low Mass Black Hole in the Low Mass X-ray Binary V1408 Aquilae (= 4U 1957+115)

Co-Authored Refereed Publications

* Undergraduate Mentee

46. Hsu, B., Blanchard, P. K., Berger, E., & **Gomez, S.** Submitted to ApJ, arXiv:2308.07271 2023
An Extensive Hubble Space Telescope Study of the Offset and Host Light Distributions of Type I Superluminous Supernovae
45. Zsíros, S., et al. (incl. **Gomez, S.**) Submitted to MNRAS, arXiv:2310.03448 2023
Serendipitous detection of the dusty Type IIL SN 1980K with JWST/MIRI
44. Pierel, J. D. R., et al. (incl. **Gomez, S.**) ApJ, 948, 115 2023
LensWatch. I. Resolved HST Observations and Constraints on the Strongly Lensed Type Ia Supernova 2022qmx ("SN Zwicky")

43. Hiramatsu, D., Berger, E., Metzger, B. D., **Gomez, S.**, et al. ApJL, 947, 28 2023
Limits on Simultaneous and Delayed Optical Emission from Well-localized Fast Radio Bursts
42. Aleo, P. D., et al. (incl. **Gomez, S.**) ApJS, 226, 9 2023
The Young Supernova Experiment Data Release 1 (YSE DR1): Light Curves and Photometric Classification of 1975 Supernovae
41. Wang, Q., et al. (incl. **Gomez, S.**) Submitted to MNRAS, arXiv:2305.03779 2023
Flight of the Bumblebee: the Early Excess Flux of Type Ia Supernova 2023bee revealed by TESS, Swift and Young Supernova Experiment Observations
40. Wang, Q., et al. (incl. **Gomez, S.**) Submitted to MNRAS, arXiv:2305.05015 2023
A Low-Mass Helium Star Progenitor Model for the Type Ibn SN 2020nxt
39. Hiramatsu, D., et al. (incl. **Gomez, S.**) Submitted to ApJ, arXiv:2305.11168 2023
Multiple Peaks and a Long Precursor in the Type II In Supernova 2021qqp: An Energetic Explosion in a Complex Circumstellar Environment
38. Jacobson-Galan, W. V., et al. (incl. **Gomez, S.**) ApJL, 954, 42 2023
SN 2023ixf in Messier 101: Photo-ionization of Dense, Close-in Circumstellar Material in a Nearby Type II Supernova
37. Jencson, J. E., et al. (incl. **Gomez, S.**) ApJL, 952, 30 2023
A Luminous Red Supergiant and Dusty Long-period Variable Progenitor for SN 2023ixf
36. Golubchik, M., et al. (incl. **Gomez, S.**) MNRAS, 522, 4718 2023
A search for transients in the Reionization Lensing Cluster Survey (RELICS): three new supernovae
35. Aamer, A., Nicholl, M., Jerkstrand, A., **Gomez, S.**, et al. Submitted to MNRAS, arXiv:2307.02487 2023
A Precursor Plateau and Pre-Maximum [O II] Emission in the Superluminous SN2019szu: A Pulsational Pair-Instability Candidate
34. Nicholl, M., Srivastav, S., Fulton, M. D., **Gomez, S.**, et al. ApJL, 954, 42 2023
AT2022aedm and a new class of luminous, fast-cooling transients in elliptical galaxies
33. Hiramatsu, D., et al. (incl. **Gomez, S.**) ApJ, 955, 8 2023
From Discovery to the First Month of the Type II Supernova 2023ixf: High and Variable Mass Loss in the Final Year Before Explosion
32. Shahbandeh, M., et al. (incl. **Gomez, S.**) MNRAS, 523, 6048 2023
JWST observations of dust reservoirs in type IIP supernovae 2004et and 2017eaw
31. Roxburgh, H., et al. (incl. **Gomez, S.**) Submitted to MNRAS, arXiv:2307.11294 2023
A Comprehensive Investigation of Gamma-Ray Burst Afterglows Detected by TESS
30. Clark, P., et al. (incl. **Gomez, S.**) Submitted to MNRAS, arXiv:2307.03182 2023
Long-term follow-up observations of extreme coronal line emitting galaxies
29. Welch, B., et al. (incl. **Gomez, S.**) ApJ, 940, 1 2023
JWST Imaging of Earendel, the Extremely Magnified Star at Redshift $z=6.2$
28. Pierel, J. D. R., et al. (incl. **Gomez, S.**) ApJ, 939, 11 2022
SALT3-NIR: Taking the Open-Source Type Ia Supernova Model to Longer Wavelengths for Next-Generation Cosmological Measurements
27. Zenati, Y., et al. (incl. **Gomez, S.**) Submitted to ApJ, arXiv: 2207.07146 2022
Evidence for Extended Hydrogen-Poor CSM in the Three-Peaked Light Curve of Stripped Envelope Ib Supernova
26. Cendes, Y., Berger, E., Alexander, K., **Gomez, S.**, et al. ApJ, 938, 28 2022
A Mildly Relativistic Outflow Launched Two Years after Disruption in the Tidal Disruption Event AT2018hyz

25. Hosseinzadeh, G., et al. (incl. **Gomez, S.**) ApJ, 935, 31 2022
Weak Mass Loss from the Red Supergiant Progenitor of the Type II SN 2021yja
24. Fox, O. D., et al. (incl. **Gomez, S.**) ApJ, 929, 15 2022
The Candidate Progenitor Companion Star of the Type Ib/c SN 2013ge
23. Fiore, A., et al. (incl. **Gomez, S.**) MNRAS, 512, 4484 2022
Close, bright, and boxy: the superluminous SN 2018hti
22. * **Yin, Y., Gomez, S.**, et al. ApJ, 931, 32 2022
Optical Observations and Modeling of the Superluminous Supernova 2018lfe
21. Hosseinzadeh, G., Berger, E., Metzger, B. D., **Gomez, S.**, et al. ApJ, 933, 14 2022
Bumpy Declining Light Curves are Common in Hydrogen-poor Superluminous Supernovae
20. Hajela, A. et al. (incl. **Gomez, S.**) ApJ, 927, 17 2022
Evidence for X-Ray Emission in Excess to the Jet-afterglow Decay 3.5 yr after the Binary Neutron Star Merger GW 170817: A New Emission Component
19. Jacobson-Galán et al. (incl. **Gomez, S.**) ApJL, 908, 13 2021
SN 2019ehk: Late-time Observations of Calcium-rich Transient SN 2019ehk Reveal a Pure Radioactive Decay Power Source
18. Blanchard, P. K, Berger, E., Nicholl, M., Chornock, R., **Gomez, S.**, et al. ApJ, 921, 64 2021
Late-Time Hubble Space Telescope Observations of a Hydrogen-Poor Superluminous Supernova Reveal the Power-Law Decline of a Magnetar Central Engine
17. Álvarez-Hernández, A. et al. (incl. **Gomez, S.**) MNRAS, 507, 4 2021
The intermediate polar cataclysmic variable GK Persei 120 years after the nova explosion: a first dynamical mass study
16. Alexander, K. D., et al. (incl. **Gomez, S.**) ApJ, 923, 66 2021
A Late-Time Galaxy-Targeted Search for the Radio Counterpart of GW190814
15. Eftekhari, T. et al. (incl. **Gomez, S.**) ApJ, 912, 21 2021
Late-time Radio and Millimeter Observations of Superluminous Supernovae and Long Gamma-Ray Bursts: Implications for Central Engines, Fast Radio Bursts, and Obscured Star Formation
14. Nicholl, M., et al. (incl. **Gomez, S.**) MNRAS, 499, 1 2020
An outflow powers the optical rise of the nearby, fast-evolving tidal disruption event AT2019qiz
13. Jacobson-Galán, W., et al. (incl. **Gomez, S.**) ApJ, 898, 166 2020
SN 2019ehk: A Double-peaked Ca-rich Transient with Luminous X-Ray Emission and Shock-ionized Spectral Features
12. Nicholl, M., et al. (incl. **Gomez, S.**) Nature Astronomy, 10.1038 2020
An extremely energetic supernova from a very massive star in a dense medium
In the news: [Space.com](https://www.space.com), [Science Magazine](https://www.sciencemagazine.com), [CNN](https://www.cnn.com)
11. Short, P. Nicholl, M., Lawrence, A., **Gomez, S.** et al. MNRAS, 498, 3 2020
The Tidal Disruption Event AT 2018hyz I: Double-peaked emission lines and a flat Balmer decrement
10. * **Abrams, N. S.**, Bieryla, A., & **Gomez, S.** MPBu, 47, 168 2020
Measured Lightcurves and Rotational Periods of (16579) 1992 GO (25660) 2000 AO88, And (37652) 1994 JS1
9. * **Abrams, N. S.**, Bieryla, A., **Gomez, S.**, et al. MPBu, 47, 3 2020
Measured Lightcurves and Rotational Periods of 3122 Florence, 3830 Trelleborg, and (131077) 2000 YH105

8. Hajela, A., et al. (incl. **Gomez, S.**) ApJ, 886, 17 2019
Two years of non-thermal emission from the binary neutron star merger GW170817: rapid fading of the jet afterglow and first constraints on the kilonova fastest ejecta
7. Nicholl, M., Blanchard, P. K., Berger, E., **Gomez, S.**, et al. MNRAS, 488, 1878 2019
The tidal disruption event AT2017eqx: spectroscopic evolution from hydrogen rich to poor suggests an atmosphere and outflow
6. Hosseinzadeh, G., Cowperthwaite, P. S., **Gomez, S.**, Villar, V. A., Nicholl, M., et al. ApJ, 880, 4 2019
Follow-up of the Neutron Star Bearing Gravitational-wave Candidate Events S190425z and S190426c with MMT and SOAR
5. Blanchard, P. K., et al. (incl. **Gomez, S.**) ApJ, 872, 90 2019
A Hydrogen-poor Superluminous Supernova with Enhanced Iron-group Absorption: A New Link between SLSNe and Broad-lined Type Ic SNe
4. Nicholl, M., Berger, E., Blanchard, P. K., **Gomez, S.**, Chornock, R. ApJ, 871, 102 2019
Nebular-phase Spectra of Superluminous Supernovae: Physical Insights from Observational and Statistical Properties
3. Scott, S., Nicholl, M., Blanchard, P. K., **Gomez, S.**, & Berger, E. ApJ, 870, 16 2019
Bright Type IIP Supernovae in Low-metallicity Galaxies
2. Nicholl, M., et al. (incl. **Gomez, S.**) ApJ, 866, 24 2018
One Thousand Days of SN2015bn: HST Imaging Shows a Light Curve Flattening Consistent with Magnetar Predictions
1. Villar, V. A., Cowperthwaite, P. S., Berger, E., Blanchard, P. K., **Gomez, S.**, et al. ApJ, 862, 11 2018
Spitzer Space Telescope Infrared Observations of the Binary Neutron Star Merger GW170817

Other Publications, Proceedings, and White Papers

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12. Sgro, L. A., Esposito, T. M., Blaclard, G., **Gomez, S.**, et al. RNAAS, 7, 141. 2023
Photometry of Type II Supernova SN 2023ixf with a Worldwide Citizen Science Network
 11. **Gomez, S.**, et al. arXiv:2306.17233 2023
Roman CCS White Paper: Characterizing Superluminous Supernovae with Roman
 10. Bhavin, J., Strolger, L., **Gomez, S.**, & Rose, B. arXiv:2306.17231 2023
Roman CCS White Paper: Tracing stellar mass assembly and emerging quiescence at cosmic noon – the case for deep imaging with all of Roman's wide filters in the HLTDS
 9. Rose, B., **Gomez, S.**, et al. arXiv:2306.17228 2023
Roman CCS White Paper: Options to Increase the Coverage Area of Prism Time Series in the High-Latitude Time Domain Core Community Survey
 8. Moriya, T., et al. (incl. **Gomez, S.**) arXiv:2306.17212 2023
Roman CCS White Paper: Identifying high-redshift pair-instability supernovae by adding sparse F213 filter observations
 7. Han, J. J., et al. (incl. **Gomez, S.**) arXiv:2306.11784 2023
Roman CSS White Paper: NANCY: Next-generation All-sky Near-infrared Community survey
 6. **Gomez, S.**, Coe, D., Chen, W., et al. TNS AstroNote 2022-152 2022
Detection of possible supernova in JWST images of Galaxy Cluster WHL0137-08
 5. Engesser, M. ; Brammer, G. ; Gould, K. ; Pierel, J. ; **Gomez, S.**, et al. TNS AstroNote 2022-145 2022
Discovery of Possible Transient in JWST NIRCcam Images of SDSS J141930.11+525159.3
In the news: [Quanta Magazine](#), [IFLS](#)
 4. **Gomez, S.**, Berger, E., Blanchard, P.K., Hosseinzadeh, G., Nicholl, M., et al. Zenodo.4013965 2021
FLEET: Finding Luminous and Exotic Extragalactic Transients

3. Chornock, R., et al. (*incl. Gomez, S.*) *Astro2020: Decadal Survey 237, 51* 2019
Multi-Messenger Astronomy with Extremely Large Telescopes
 2. Mason, P. A., Robinson, E. L., & **Gomez, S.** *Acta Polytechnica CTU, Vol 2, No. 1.* 2015
Optical Photometry of LMXBs: UW CrB and V1408 Aql (=4U 1957+115)
 1. Mason, P. A., Zhilkin, A. G., Bisikalo, D. V., **Gomez, S.**, et al. *Acta Polytechnica CTU, Vol 2, No. 1.* 2015
Photometry and Multipolar Magnetic Field Modeling of Polars BY Camelopardalis and FL Ceti
- First author of **68** Astronomer's Telegrams, GCN Circulars, TNS Classification Reports, and AstroNotes
 - Co-author of **45** Astronomer's Telegrams, GCN Circulars, TNS Classification Reports, and AstroNotes

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