SEBASTIAN GOMEZ

The University of Texas at Austin
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Appointments

Assistant Professor of Astronomy - The University of Texas at Austin	2025 - Present
Clay Postdoctoral Fellow - Harvard University	2024 - 2025
STScI Postdoctoral Fellow - Space Telescope Science Institute	2021 - 2024
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 *Thesis: Exotic Transients and How to Find Them*	2021
M. A. from Harvard University in Astronomy and Astrophysics	2017
B.S. from The University of Texas at El Paso (UTEP) in Physics - *Summa Cum Laude* *Thesis: The Case for a Low Mass Black Hole in the X-ray Binary V1408 Aquilae*	2015
High School degree from Tecnológico de Monterrey, Ciudad Juárez, México	2011

Research Experience

- Experienced in 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, undergraduate, and graduate students on time-domain research, and **Teaching** on methods of observational astronomy and Python programming.

Professional Experience

- Technical experience working for the **Nancy Grace Roman Space Telescope** at STScI on scientific validation of **Image Simulations**, code development, and database development.
- Former **Deputy Lead** of the Roman Telescope Branch simulations block.

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

On-Site 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 + GCMS (**6 nights**); Fred Lawrence Whipple Observatory 60" / FAST (**2 nights**); Hobby Eberly Telescope / LRS2 (**38 hours**)

Telescope Proposals Accepted as PI

Magellan 6.5m
17 nights (7 proposals)

MMT 6.5m
17 nights (5 proposals)

Gemini Observatory 8.1m
14.9 hours (PID: GN-2023B-Q-241)
5.0 hours (PID: GS-2023B-Q-232)
3.6 hours (PID: GN-2023B-Q-240)
11.4 hours (PID: GS-2022B-Q-323)
6 hours (PID: GS-2021B-FT-208)
2 hours (PID: GN-2019A-DD-103)
2.7 hours (PID: GN-2019A-FT-201)
1.2 hours (PID: GN-2018A-FT-212)
3.6 hours (PID: GN-2024A-Q-144)
9.0 hours (PID: GN-2024A-Q-233)
5.7 hours (PID: GS-2024A-Q-234)
3.7 hours (PID: GN-2025A-Q-326)

Hobby-Eberly Telescope
21 hours (UT25-2-007)
17 hours (UT25-3-004)

Hubble Space Telescope
29 orbits (PID: GO 17811)
7 orbits (PID: GO 15863)

Very Large Array
2 hours (PID: 20A-409)
24 hours (PID: 24A-368)

McDonald Observatory 82" Otto Struve
5 nights (1 proposal)

Las Cumbres Observatory 1m
1 night (PID: 2017B-0057)

SOAR 4.1m
20 hours (ID: SOAR2023B-007)
20 hours (ID: SOAR2023A-009)

F. L. Whipple Observatory 48"
12 nights (4 proposals)

F. L. Whipple Observatory 60"
5 nights (4 proposals)

Teaching

Professor : Introductory Astronomy AST 307 — Spring 2025
The University of Texas at Austin

Teaching Fellow : Methods of Observational Astronomy — Spring 2019
Harvard University (Prof. Edo Berger)

Teaching Fellow : Methods of Observational Astronomy — Spring 2018
Harvard University (Prof. Edo Berger)

Teaching Fellow : The Unity of Science, From the Big Bang to the Brontosaurus — Spring 2017
Harvard University (Prof. Irwin Shapiro)

Course designer and Instructor : The UNIX Command Line — Summer 2016
Banneker Institute, Harvard University

Research Mentoring

Primary Advisor for undergraduate student Rebecca Wisenbaker — 2025 - Present
The University of Texas at Austin

Primary advisor for undergraduate student Grace Sweetak — 2023
Space Telescope Science Institute

Primary supervisor for undergraduate student Hanna Al-Kowsi — 2022-2023
Space Telescope Science Institute

Primary advisor for undergraduate student Yao Yin *Harvard University - 1 peer reviewed publication*	2019 - 2023
Co-advisor for high school student Sophie von Coelln *Space Telescope Science Institute*	Summer 2022
Co-advisor for undergraduate student Kyle Dalrymple *Space Telescope Science Institute*	Summer 2022
Co-advisor for undergraduate student Natasha Abrams *Harvard University - 2 peer reviewed publications*	2018 - 2020

Outreach and Service

Referee for: *ApJ, MNRAS, Nature Astronomy, A&A, Universe, and PASP*	
Co-chair of the Explosive Transients Working Group of the Roman Science Collaboration	2025 - Present
Member of HST Time Allocation Committee	2025
Lead Organizer Superluminous 2025 Conference, Harvard University	2025
Member of Roman Core Community Surveys Definition Committee (HLTDS)	2024
Member of NSF Proposal Review Panel	2024
Member of Keck Time Allocation Committee	2024
Mentor for the JHU/STScI Joint Mentorship Program	2023 - 2024
Organizer for Astronomy on Tap, Baltimore	2022 - 2024
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 for Banneker Institute, Harvard University	2016 - 2018
Member of Application Review Committee for the MIT Summer Research Program	2016 - 2019
Leader for the Harvard Observing Project	2016 - 2020
Physics Circus organizer for over a dozen evens in El Paso, Texas.	2011 - 2014

Presentations

Invited Colloquium	Peen State University Astronomy Colloquium, State College, PA, 2025
Invited Talk	CosmicAI Seminar Series, Austin, TX 2025
Invited Speaker	Mexico U.S. Speaker Program, IPN + ITESM + UAM + UANL , Mexico City & Monterrey, 2025
Invited Talk	Gemini Splinter Session, 245th AAS Meeting, Maryland, 2025
Invited Talk	US-Mexico Conference on Astronomy, U.S. Embassy, Mexico, 2024
Conference Talk	TDEs and NTs in Crete 2024, Heraklion, Greece, 2024
Invited Conference Talk	Anticipating the Rising Tide of TDEs, KITP, California, 2024
Invited Outreach Talk	New Vistas in Astronomy, Arizona, 2024
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
International Astronomical Union
Global Supernova Project
LSST Collaboration (TVS)

Technical Skills

Software
Data analysis: IRAF, PyRAF, ISIS, PHOEBE, Molly
Other Software: LaTeX, Adobe Creative Suite.
Programming languages: Python, S-Lang, HTML

Languages
Spanish (Native proficiency)
English (Bilingual proficiency)
ASL (Limited working proficiency)

First-Author Refereed Publications

15. **Gomez, S.**, Nicholl, M., Berger, E., Blanchard, P. K., Villar, V. A., et al. MNRAS, 535, 471 2024
The Type I Superluminous Supernova Catalog I: Light Curve Properties, Models, and Catalog Description
14. STIPS Development Team, **Gomez, S.**, Bellini, A., et al. PASP, 136, 124502 2024
STIPS: The Nancy Grace Roman Space Telescope Imaging Product Simulator
13. **Gomez, S.**, et al. Submitted to ApJ, arXiv: 2408.15397 2024
Constraining Dust Formation in the Superluminous Supernova 2017gci with JWST Observations
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**

82. Blanchard, P. K, Berger, E, Gomez S., et al. Submitted to ApJ, arXiv: 2511.10747 2025
Hydrogen-Poor Superluminous Supernovae in the Nebular Phase: Spectral Diversity Due to Ejecta Ionization as a Probe of the Power Source

81. Medler, K., et al. (incl. **Gomez, S.**) ApJ, 993, 191 2025
JWST Observations of SN 2023ixf II: The Panchromatic Evolution Between 250 and 720 Days After the Explosion

80. Patra, K. (incl. **Gomez, S.**) Submitted to ApJ. arXiv: 2510.12572 2025
JWST and Keck Observations of the Off-Nuclear TDE AT 2024tvd: A Massive Nuclear Star Cluster and Minor-Merger Origin for its Black Hole

79. Kumar, H., Berger, E., Blanchard, P. K., Hiramatsu, D., **Gomez, S.**, et al. ApJ, 992, 122 2025
A Detection of Helium in the Bright Superluminous Supernova SN 2024rmj

78. Zenati, Y., et al. (incl. **Gomez, S.**) ApJ, 992, 9 2025
SN 2019tsf: Evidence for Extended Hydrogen-poor CSM in the Three-peaked Light Curve of Stripped Envelope of a Type Ib Supernova

77. Clayton, G. C., et al. (incl. **Gomez, S.**) ApJ, 1991, 133 2025
Very Late-time JWST and Keck Spectra of the Oxygen-rich Supernova 1995N

76. Farah, J. R., et al. (incl. **Gomez, S.**) Submitted to ApJ, arXiv:2509.12470 2025
When IIb Ceases To Be: Bridging the Gap Between IIb and Short-plateau Supernovae

75. Franz, N., Alexander, K. D., **Gomez, S.**, et al., Submitted to ApJ, arXiv:2509.05405 2025
The Open mulTiwavelength Transient Event Repository (OTTER): Infrastructure Release and Tidal Disruption Event Catalog

74. Karmen, M., et al. (incl. **Gomez, S.**) ApJ 990, 149 2025
JWST Discovery of a High-redshift Tidal Disruption Event Candidate in COSMOS-Web

73. Hsu, B., (incl. **Gomez, S.**) ApJ, 990, 149 2025
One Year of SN 2023ixf: Breaking Through the Degenerate Parameter Space in Light-Curve Models with Pulsating Progenitors

72. DeCoursey, C., et al. (incl. **Gomez, S.**) ApJ, 990, 31 2025
The First Photometric Evidence of a Transient/Variable Source at z > 5 with JWST

71. Pastorello, A., et al. (incl. **Gomez, S.**) ApJ, 701, 32 2025
A long-lasting eruption heralds SN 2023ldh, a clone of SN 2009ip

70. Moriya, J. T., (incl. **Gomez, S.**) PASJ, 77, 851 2025
Properties of high-redshift Type II supernovae discovered by the JADES transient survey

69. Aamer, A., Nicholl, M., A., **Gomez, S.**, et al. MNRAS, 541, 2674 2025
The Type I superluminous supernova catalogue – II. Spectroscopic evolution in the photospheric phase, velocity measurements, and constraints on diversity

68. Gagliano, A., et al. (incl. **Gomez, S.**) ApJ, 989, 182 2025
Evidence for an Instability-induced Binary Merger in the Double-peaked, Helium-rich Type IIn Supernova 2023zkd

67. Cendes, Y., et al. (incl. **Gomez, S.**) Submitted to ApJ, arXiv: 2507.08998 2025
Continued Rapid Radio Brightening of the Tidal Disruption Event AT2018hyz

66. Rose, B M., et al. (incl. **Gomez, S.**) ApJ, 988, 65 2025
The Hourglass Simulation: A Catalog for the Roman High-latitude Time-domain Core Community Survey

65. Kumar, H., Berger, E., Blanchard, P. K., **Gomez, S.**, et al. ApJ 987, 127 2025
A Near-infrared Search for Helium in the Superluminous Supernova SN 2024ahr

64. Alexander, K. D., Margutti, R., Gomez S., et al. Submitted to ApJ, arXiv:2506.12729 2025
The Multi-Wavelength Context of Delayed Radio Emission in TDEs: Evidence for Accretion-Driven Outflows

63. Coulter, D. A., (incl. **Gomez, S.**) Submitted to ApJ. arXiv: 2501.05513 2025
Discovery of a likely Type II SN at z=3.6 with JWST

62. Villar, V.A., **Gomez, S**., Berger, E., & Gagliano, A. ApJS, 276, 3 2025
The Impact of Host-galaxy Properties on Supernova Classification with Hierarchical Labels

61. Kumar, H., Berger, E., Hiramatsu, D., **Gomez, S.**, et al. ApJ, 974, 36 2024
AT2023vto: An Exceptionally Luminous Helium Tidal Disruption Event from a Massive Star

60. Hiramatsu, D., Berger, E., **Gomez, S.**, et al. Submitted to ApJ, arXiv: 2411.07287 2024
Type IIn Supernovae. I. Uniform Light Curve Characterization and a Bimodality in the Radiated Energy Distribution

59. Shahbandeh, M., et al. (incl. **Gomez, S.**) ApJ, 985, 262 2024
JWST/MIRI Observations of Newly Formed Dust in the Cold, Dense Shell of the Type IIn SN 2005ip

58. Nicholl, M., et al. (incl. **Gomez, S.**) Nature, 634, 804 2024
Quasi-periodic X-ray eruptions years after a nearby tidal disruption event

57. Bostroem, K. A., et al. (incl. **Gomez, S.**) ApJ, 973, 47 2024
Circumstellar Interaction in the Ultraviolet Spectra of SN 2023ixf 14-66 Days After Explosion

56. Hajela, A., et al. (incl. **Gomez, S.**) ApJ, 983, 29 2024
Eight Years of Light from ASASSN-15oi: Towards Understanding the Late-time Evolution of TDEs

55. Pierel, J. D. R., et al. (incl. **Gomez, S.**) ApJ, 971, 32 2024
Discovery of An Apparent Red, High-Velocity Type Ia Supernova at z = 2.9 with JWST

54. Siebert, M., R., et al. (incl. **Gomez, S.**) ApJ, 972, 13 2024
Discovery of a Relativistic Stripped Envelope Type Ic-BL Supernova at z = 2.83 with JWST

53. DeCoursey, C., et al. (incl. **Gomez, S.**) ApJ, 979, 250 2024
The JADES Transient Survey: Discovery and Classification of Supernovae in the JADES Deep Field

52. Szalai, T., et al. (incl. **Gomez, S.**) A&A, 690, 17 2024
The story of SN 2021aatd -- a peculiar 1987A-like supernova with an early-phase luminosity excess

51. Ridley, E. J., et al. (incl. **Gomez, S.**) MNRAS, 531, 1905 2024
Time-varying double-peaked emission lines following the sudden ignition of the dormant galactic nucleus AT2017bcc

50. Pierel, J. D. R., et al. (incl. **Gomez, S.**) ApJ, 967, 37 2024
Lensed Type Ia Supernova "Encore" at z = 2: The First Instance of Two Multiply Imaged Supernovae in the Same Host Galaxy

49. Rest, S., et al. (incl. **Gomez, S.**) ApJ, 979, 114 2024
ATClean: A Novel Method for Detecting Low-Luminosity Transients and Application to Pre-explosion Counterparts from SN 2023ixf

48. Eftekhari, T., et al. (incl. **Gomez, S.**) ApJ, 974, 149 2024
Late-time X-ray Observations of the Jetted Tidal Disruption Event AT2022cmc: The Relativistic Jet Shuts Off

47. Aleo, P. D., et al. (incl. **Gomez, S.**) ApJ, 974, 172 2024
Anomaly Detection and Approximate Similarity Searches of Transients in Real-time Data Streams

46. de Soto, K. M., Villar, V. A., Berger, E., **Gomez, S.**, et al. ApJ, 974, 169 2024
Superphot+: Realtime Fitting and Classification of Supernova Light Curves

45. Hsu, B., Blanchard, P. K., Berger, E., & **Gomez, S.** ApJ, 961, 169 2023
An Extensive Hubble Space Telescope Study of the Offset and Host Light Distributions of Type I Superluminous Supernovae

44. Zsíros, S., et al. (incl. **Gomez, S.**) MNRAS, 529, 155 2023
Serendipitous detection of the dusty Type IIL SN 1980K with JWST/MIRI

43. 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")

42. 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

41. 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

40. Wang, Q., et al. (incl. **Gomez, S.**) ApJ, 962, 17 2023
Flight of the Bumblebee: the Early Excess Flux of Type Ia Supernova 2023bee revealed by TESS, Swift and Young Supernova Experiment Observations

39. Wang, Q., et al. (incl. **Gomez, S.**) MNRAS, 530, 3906 2023
A Low-Mass Helium Star Progenitor Model for the Type Ibn SN 2020nxt

38. Hiramatsu, D., et al. (incl. **Gomez, S.**) ApJ, 964, 181 2023
Multiple Peaks and a Long Precursor in the Type IIn Supernova 2021qqp: An Energetic Explosion in a Complex Circumstellar Environment

37. 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

36. 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

35. 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

34. Aamer, A., Nicholl, M., Jerkstrand, A., **Gomez, S.**, et al. MNRAS, 527, 11970 2023
A Precursor Plateau and Pre-Maximum [O II] Emission in the Superluminous SN2019szu: A Pulsational Pair-Instability Candidate

33. Nicholl, M., Srivastav, S., Fulton, M. D., **Gomez, S.**, et al. ApJL, 954, 42 2023
AT 2022aedm and a New Class of Luminous, Fast-cooling Transients in Elliptical Galaxies

32. 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

31. Shahbandeh, M., et al. (incl. **Gomez, S.**) MNRAS, 523, 6048 2023
JWST observations of dust reservoirs in type IIP supernovae 2004et and 2017eaw

30. Roxburgh, H., et al. (incl. **Gomez, S.**) ApJ, 963, 89 2023
A Comprehensive Investigation of Gamma-Ray Burst Afterglows Detected by TESS

29. Clark, P., et al. (incl. **Gomez, S.**) MNRAS, 528, 7076 2023
Long-term follow-up observations of extreme coronal line emitting galaxies

28. Welch, B., et al. (incl. **Gomez, S.**) ApJ, 940, 1 2023
JWST Imaging of Earendel, the Extremely Magnified Star at Redshift z=6.2

27. 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

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, Science Magazine, CNN
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
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