

## Joseph R. Farah

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| CONTACT INFORMATION        | Las Cumbres Observatory and Global Telescope<br>6740 Cortona Dr<br>Goleta, CA 93117<br>USA   | <i>E-mail:</i> <a href="mailto:jfarah@lco.global">jfarah@lco.global</a><br><i>Website:</i> <a href="http://jrfarah.com">http://jrfarah.com</a><br><i>Citations:</i> <a href="#">Google Scholar profile</a> |
| RESEARCH INTERESTS         | Astrophysics, supernovae, photon ring, radio astronomy, black holes, magnetars, very long baseline interferometry, space VLBI, strong gravity, Bayesian modeling, magnetohydrodynamics, frameworks, machine learning, deep learning  |  |
| EDUCATION                  | <b>University of California Santa Barbara</b> , Santa Barbara, CA, USA<br><i>Ph.D. in Physics (in progress)</i><br><i>M.A. in Physics (completed)</i>  | 2021–2026<br>2023  |
|                            | <b>University of Massachusetts Boston</b> , Boston, MA, USA<br><i>B.S. in Physics, summa cum laude, with distinction</i>   | 2017–2021  |
| SELECTED HONORS AND AWARDS | UC Santa Barbara Mananya Tantiwivat Award<br>Broida-Hirschfelder Fellowship<br><i>CITATION: In recognition of his project uncovering the secrets of the strangest object in the universe, the black hole photon ring.</i><br>1 <sup>st</sup> Place Award, UC Santa Barbara Grad Slam<br><i>Round 1 (Physics and Chemistry)</i><br>UC Santa Barbara GSA Excellence in Teaching Award (nominated)<br>UC Santa Barbara Academic Senate Outstanding Teaching Assistant Award (nominated)<br>Event Horizon Telescope Early Career Award<br><i>CITATION: For his leadership and contribution to the dynamic imaging of the interferometric data used to image Sgr A*.</i><br><b>LeRoy Apker Award</b><br><i>CITATION: For the invention of the selective dynamical imaging method, with applications for studying rapidly-varying black holes.</i><br>UC Santa Barbara James and Mary Jo Hartle Graduate Fellowship<br><b>National Science Foundation Graduate Research Fellowship</b><br>Arthur W. Martin III Scholarship<br>LeRoy Apker Award (finalist) (2 times)<br><b>Breakthrough Prize in Fundamental Physics (co-recipient)</b><br>Northrop Grumman Scholarship<br><b>Barry M. Goldwater Scholarship</b><br>National Science Foundation Diamond Achievement Award <sup>‡</sup><br>Named one of Boston's <b>25 Under 25</b> | 2025<br>2025<br>2025<br>2025<br>2024<br>2022<br>2021<br>2021–2026<br>2021<br>2020, 2021<br>2020<br>2020<br>2019<br>2019<br>2019  |

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| Alton J. Brann Endowed Scholarship  | 2019       |
| Smithsonian Fellowship  | 2018, 2019 |
| Oracle Fellowship   | 2018, 2019 |
| AJAS/AAAS Lifetime Fellowship   | 2018       |
| Chancellor's Scholarship, University of Massachusetts Boston                  | 2017–2021  |
| 2 <sup>nd</sup> Place Award, Massachusetts State Science and Engineering Fair | 2017       |
| 1 <sup>st</sup> Place Award, Massachusetts State Science and Engineering Fair | 2016       |

SELECTED WORK  
AND RESEARCH  
EXPERIENCE

**Las Cumbres Observatory** 2021 - Present

*NSF Graduate Research Fellowship — Goleta, CA*

I use the LCO global network of telescopes to perform optical and spectroscopic follow-up of a wide variety of supernovae and transients. Using rapid follow-up observations combined with new shock cooling physics, I seek to better characterize and understand the mass stripping mechanism of Type IIb supernovae, and the underlying mechanisms powering superluminous supernovae. Additionally, I help with infrastructure maintenance and development for the robotic LCO platform.

*Supervisor: Andy Howell*

**Harvard-Smithsonian Center for Astrophysics**

*Member of the Black Hole Explorer Collaboration — Cambridge, MA*

2020 - Present

I develop analytic and deep learning techniques for measuring physical properties from the black hole's photon ring. Along with the BHEX collaboration, I assist in the preparation and development of the BHEX spacecraft, an orbiting radio telescope which will interface with the EHT and use space VLBI to make high resolution images and movies of black holes.

*Supervisor: Alex Lupsasca*

*Smithsonian Fellowship with the Event Horizon Telescope — Cambridge, MA*

2018 - 2021

I image supermassive black holes and assist in observations using the Event Horizon Telescope in order to help take the first ever pictures of black holes. I explored alternative parametric representations of shadows in the Kerr metric and non-standard GR theories, and methods constraining the angular momentum of rotating black holes in EHT data using image- and Fourier-domain feature extraction methods. As an undergraduate, I was the first and only junior collaborator of the EHT Consortium.

*Supervisor: Michael Johnson*

**Quantum Computing Research Group**

2019 - 2021

*Research Intern with Dr. Alioscia Hama — Boston, MA*

**Harvard Laboratory for Particle Physics and Cosmology**

2017 - 2018

*Research Intern with Dr. Melissa Franklin — Cambridge, MA*

**QBism Research Group**

2017 - 2019

*Research Intern with Dr. Christopher Fuchs — Boston, MA*

**Harvard School for Engineering and Applied Sciences**

Summer 2016

*Summer Research Intern mentored by Dr. Chinwendu Enyioha — Cambridge, MA***Tufts Department of Astrophysics**

Summer 2015

*Summer Research Intern mentored by Dr. Anna Sajina — Medford, MA***FEATURED  
PUBLICATIONS**

CITATIONS: 19000+  
 REF'D PAPERS: 110+  
*h*-INDEX: 37  
*i10*-INDEX: 68

**NB:** Please see full list of publications on page 6†1–6. **Event Horizon Telescope Collaboration** et al. (2019) ApJL, 875, L2–6*S*7–16. **Event Horizon Telescope Collaboration** et al. (2022) ApJL 930 L12–17, L19–2117. ***J. R. Farah**, ..., and the Event Horizon Telescope Collaboration. (2022) *Selective Dynamical Imaging of Interferometric Data*. ApJL, 930, L18*18. **J. R. Farah**, L. J. Prust, D. A. Howell, Y. Q. Ni, et al. 2025. *Lense-Thirring precessing magnetar engine drives a superluminous supernova*. Nature, submitted.19. **J. R. Farah**, D. A. Howell, G. Terreran, et al. 2024. *Shock-cooling Constraints via Early-time Observations of the Type IIb SN 2022hnt*. ApJ, accepted.20. **J. R. Farah**, J. Davelaar, D. Palumbo, M. Johnson, J. Delgado. 2024. *Machine- and deep-learning-driven angular momentum inference from BHEX observations of the  $n = 1$  photon ring*. ApJ, accepted.21. **J. R. Farah**, D. W. Pesce, M. D. Johnson, & L. Blackburn. 2020. *On the Approximation of the Black Hole Shadow with a Simple Polar Curve*. ApJ, 900, 77.22. **J. R. Farah**, D. Hiramatsu, D. A. Howell, et al. 2025. *When IIb Ceases To Be: Bridging the Gap Between Type IIb and Short-plateau Supernovae*. ApJ, submitted.23. **J. R. Farah**, L. J. Prust, G. Terreran, D. A. Howell. 2025. *The First 4 Years of SN 1993J Revisited: Geometric Modeling of the Radio Shell with Closure Quantities*. ApJ, in prep.24. **J. R. Farah**, A. Lupsasca, C. Gammie. 2025. *Interferometric inference of black hole spin from the photon ring brightness profile*. ApJ, in prep.**STUDENTS  
MENTORED****Undergraduate**

Courtney Duong (UC Santa Barbara)

2024 - Present

*Gene and Susan Lucas Undergraduate Research Scholarship*

Franklin Myhre (UC Santa Barbara)

2024 - Present

Jingkai Wang (UC Santa Barbara)

2024 - Present

Sanjit Masanam (UC Santa Barbara)

2024 - Present

*2025 Goldwater Scholarship (nominated)**2025 Ernest F. Hollings Scholarship*


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†These six papers are the first results papers from the Event Horizon Telescope, presenting the first image of a black hole.

*S*These 10 papers are the first Galactic Center results papers from the Event Horizon Telescope, presenting the second image of a black hole and the first horizon-scale images of Sgr A\*.

Songgun Lee (UC Santa Barbara)

2024 - Present

*Co-founder at Masterminding*

Tazzy Imbabi (UC Santa Barbara)

INVITED TALKS,  
PANELS,  
INTERVIEWS AND  
FILMOGRAPHY

Machine- and deep-learning-driven angular momentum inference from Black Hole Explorer observations of the  $n=1$  photon subring. *Topics in Gravitational Physics*. Presentation at the APS Global Physics Summit. March 2025. [Event URL](#).

The Black Hole Explorer and the Edge of the Universe. Santa Barbara Museum of Natural History. April 2025. Invited speaker for public lecture. [Event URL](#).

The Black Hole Explorer. Santa Barbara, CA. Invited speaker for *Astronomy on Tap*. December 2024. [Event URL](#).

What does an astronomer do? Canalino Elementary School. October 2024. Invited educational outreach speaker.

Inferring black hole spin from images of the photon ring. Vanderbilt University VandyGRAF initiative. September 2024. Invited speaker.

The Biggest Telescopes! Aliso Elementary School. October 2023. Invited educational outreach speaker.

Imaging the Black Hole at Our Galaxy's Center. Santa Barbara Museum of Natural History. May 2023. Invited speaker for public lecture. [Event URL](#).

LCO's Top 9 Tips For Taking Your Best Black Hole Photo. Medford High School, Medford, Massachusetts. Invited speaker for honors and AP physics classes. 2022.

LCO's Top 9 Tips For Taking Your Best Black Hole Photo. Santa Barbara, CA. Invited speaker for *Astronomy on Tap*. November 2022. [Event URL](#).

Selective Dynamical Imaging of Interferometric Data and the Second Image of a Black Hole. University of California, Santa Barbara, California. Invited speaker for *Astro Tea*. June 2022.

New EHT Image of Sagittarius A\*. *Montecito Journal*. June 2022. [Article URL](#).

Santa Barbara Astronomer Bags a Black Hole. *Santa Barbara Independent*. June 2022. [Article URL](#).

Research in Review, 2022. *The Daily Nexus*. May 2022. [Article URL](#).

Spotted! Astrophysicists Release the First Ever Image of a Black Hole in the Milky Way. *The Bottom Line*. May 2022. [Article URL](#).

Joseph Farah '21 Among Researchers to Capture First Image of Black Hole. *UMB News*. May 2022. [Article URL](#).

South Coast scientist played a critical role in capturing the first image of our galaxy's black hole. *NPR via KCLU*. May 2022. [Article URL](#).

AskScience AMA Series: We're Event Horizon Telescope scientists with groundbreaking results on

our own galaxy; Ask Us Anything. *Reddit*. May 2022. [Article URL](#).

Sagittarius A\* Revealed. *ScienceX*. May 2022. [Article URL](#).

Astronomers reveal first image of the black hole at the heart of our galaxy. Sandy Seale, *Las Cumbres Observatory*. May 2022. [Article URL](#).

Sagittarius A\* Revealed. Sonia Fernandez & Sandy Seale, *UC Santa Barbara News*. May 2022. [Article URL](#).

Meet the 2021 LeRoy Apker Award Recipients. David Barnstone, *American Physical Society*. February 2022. [Article URL](#).

Looking Deep into Space: Grad student and 2021 LeRoy Apker Award winner Joseph Farah brings his curiosity and drive to Las Cumbres Observatory. David Barnstone, *The Current*. February 2022. [Article URL](#).

What Lies Within: Imaging the Galactic Center. April 2022. April APS Meeting, New York City, New York. Invited speaker for American Physical Society.

Rising EHT Scientist Awarded Prestigious Physics Award. Nadia Whitehead, *Center for Astrophysics | Harvard-Smithsonian*. October 2021. [Article URL](#).

UMass Boston Alum Wins Prestigious National Academic Award in Physics. Danielle Bilotta, *UMB News*. November 2021. [Article URL](#).

The First Image of a Black Hole. Seagrave Memorial Observatory, North Scituate, Rhode Island. Invited speaker for Skyscrapers, Inc. 2021.

Galison, P. L. (Director). 2021. *Black Holes: The Edge of All We Know*. Film. Sandbox Films.

Very Long Baseline Interferometry and the Event Horizon Telescope. University of Massachusetts, Boston, Massachusetts. Invited speaker for Astronomy 121. 2019 (2 times), 2020 (2 times).

Physics Student Named Finalist for Prestigious National Academic Award. DeWayne Lehman, *UMass Boston News*. July 2020. [Article URL](#).

Drag Racing and Black Hole Physics. Catherine Steffel, *Symmetry Magazine*. January 2020. [Article URL](#).

Fortnite flashback: Just how accurate was the black hole that launched Chapter 2? Doris Elin Urrutia, *Space.com*. February 2020. [Article URL](#).

Galison, P. L. (Director). 2019. *Portrait of a Shadow*. Film. Sandbox Films.

UMass Boston Physics Major Shares in \$3M Breakthrough Prize for Black Hole Image. Colleen Locke, *UMass Boston News*. September 2019. [Article URL](#).

Student Spotlight: Joseph Farah. Lisa Allen, *UMass Boston News*. September 2019. [Article URL](#).

Seeing the Unseeable: The First Image of a Black Hole. University of Massachusetts Boston, Boston, Massachusetts. May 2019.

Scientists Needed to Build a ‘Planet-Sized Telescope’ to See the Black Hole. Jessica Heister, *Atlas*

*Obscura*. April 2019. [Article URL](#).

Two UMass Boston Students Earn Prestigious Goldwater Scholarships. Maedot Kassa, *UMass Boston News*. April 2019. [Article URL](#).

Imaging a Black Hole with the Event Horizon Telescope. Harvard University, Cambridge, MA. April 2019.

## PUBLICATIONS

(last updated: Aug 2025)

111. S. H. Park, J. Rho, S.-C. Yoon, ...**J. R. Farah** et al. (2025). *Near-Infrared Spectroscopy and Detection of Carbon Monoxide in the Type II Supernova SN 2023ixf*. arXiv:2507.11877.

110. H. Sun, W.-X. Li, L.-D. Liu, ...**J. Farah** et al. (2025). *A fast X-ray transient from a weak relativistic jet associated with a type Ic-BL supernova*. *Nature Astronomy*, 9, 1073–1085.

109. S.-Q. Jiang, D. Xu, A. P. C. van Hoof, ...**J. R. Farah** et al. (2025). *EP240801a/XRF 240801B: An X-Ray Flash Detected by the Einstein Probe and the Implications of Its Multiband Afterglow*. *ApJL*, 988(1), L34.

108. L. Makrygianni, I. Arcavi, M. Newsome, ...**J. R. Farah** et al. (2025). *The Double Tidal Disruption Event AT 2022dbl Implies that at Least Some “Standard” Optical Tidal Disruption Events Are Partial Disruptions*. *ApJL*, 987(1), L20.

107. H. Kumar, E. Berger, P. K. Blanchard, ...**J. R. Farah** et al. (2025). *A Near-infrared Search for Helium in the Superluminous Supernova SN 2024ahr*. *ApJ*, 987(2), 127.

106. R. Dahale, I. Cho, K. Moriyama, ...**J. R. Farah** et al. (2025). *Origin of the ring ellipticity in the black hole images of M87\**. *AA*, 699, A279.

105. C. Goddi, D. F. Carlos, G. B. Crew, ...**J. R. Farah** et al. (2025). *First polarization study of the M87 jet and active galactic nuclei at submillimeter wavelengths with ALMA*. *AA*, 699, A265.

104. Z.-Y. Wang, A. Pastorello, Y.-Z. Cai, ...**J. R. Farah** et al. (2025). *Massive stars exploding in a He-rich circumstellar medium. XI. Diverse evolution of five Ibn SNe 2020nxt, 2020taz, 2021bbv, 2023utc and 2024aej*. arXiv, arXiv:2506.15139.

103. H. Kumar, E. Berger, P. K. Blanchard, ...**J. R. Farah** et al. (2025). *A Detection of Helium in the Bright Superluminous Supernova SN 2024rmj*. arXiv, arXiv:2506.06417.

102. B. Palit, M. Śniegowska, A. Markowitz, ...**J. R. Farah** et al. (2025). *Markarian 590: the AGN awakens*. *MNRAS*, 540(1), L14–L20.

101. F. Onori, M. Nicholl, P. Ramsden, ...**J. R. Farah** et al. (2025). *The case of AT2022wtn: a tidal disruption event in an interacting galaxy*. *MNRAS*, 540(1), 498–520.

100. X. Zeng, L. Hu, S. Zheng, ...**J. R. Farah** et al. (2025). *SN 2023ehl: A Normal Type Ia Supernova with High-velocity Features*. *ApJ*, 986(1), 68.

99. X. Ma, X. Wang, J. Mo, ...**J. Farah** et al. (2025). *Supernovae at distances  $\lesssim 40$  Mpc: II. Supernova rate in the local Universe*. *AA*, 698, A306.

98. X. Ma, X. Wang, J. Mo, ...**J. Farah** et al. (2025). *Supernovae at distances  $\lesssim 40$  Mpc: I.*

*Catalogues and fractions of supernovae in a complete sample.* AA, 698, A305.

97. X. Zeng, Y. Luo, X. Wang, ...**J. R. Farah** et al. (2025). *SN 2023xqm: A gradually fading Ia supernova exhibiting isolated high-velocity signatures.* AA, 698, A70.

96. W. V. Jacobson-Galán, L. Dessart, K. W. Davis, ...**J. R. Farah** et al. (2025). *Final Moments III: Explosion Properties and Progenitor Constraints of CSM-Interacting Type II Supernovae.* arXiv, arXiv:2505.04698.

95. L. A. Kwok, M. Singh, S. W. Jha, ...**J. R. Farah** et al. (2025). *JWST and Ground-based Observations of the Type Ia Supernovae SN 2024pxl and SN 2024vjm: Evidence for Weak Deflagration Explosions.* arXiv, arXiv:2505.02944.

94. M. Singh, L. A. Kwok, S. W. Jha, ...**J. R. Farah** et al. (2025). *Photometry and Spectroscopy of SN 2024pxl: A Luminosity Link Among Type Ia Supernovae.* arXiv, arXiv:2505.02943.

93. B. M. Subrayan, D. J. Sand, K. A. Bostroem, ...**J. R. Farah** et al. (2025). *Early Shock-Cooling Observations and Progenitor Constraints of Type IIb SN 2024uwq.* arXiv, arXiv:2505.02908.

92. M. Liu, Y. Zhang, Y. Wang, ...**J. R. Farah** et al. (2025). *Detection of an Orphan X-Ray Flare from a Blazar Candidate EP240709a with the Einstein Probe.* ApJ, 984(1), 5.

91. M. Śniegowska, B. Trakhtenbrot, L. Makrygianni, ...**J. R. Farah** et al. (2025). *AT 2019aal: a Bowen Fluorescence Flare With a Precursor Flare in an Active Galactic Nucleus.* arXiv, arXiv:2505.00083.

90. W.-X. Li, Z.-P. Zhu, X.-Z. Zou, ...**J. R. Farah** et al. (2025). *An extremely soft and weak fast X-ray transient associated with a luminous supernova.* arXiv, arXiv:2504.17034.

89. R. Baer-Way, P. Chandra, M. Modjaz, ...**J. R. Farah** et al. (2025). *A Multiwavelength Autopsy of the Interacting Type II<sub>n</sub> Supernova 2020ywx: Tracing Its Progenitor Mass-loss History for 100 Yr Before Death.* ApJ, 983(2), 101.

88. A. Pastorello, A. Reguitti, L. Tartaglia, ...**J. R. Farah** et al. (2025). *A long-lasting eruption heralds SN 2023ldh, a clone of SN 2009ip.* arXiv, arXiv:2503.23123.

87. M. Shrestha, S. DeSoto, D. J. Sand, ...**J. R. Farah** et al. (2025). *Spectropolarimetry of SN 2023ixf Reveals Both Circumstellar Material and an Aspherical Helium Core.* ApJL, 982(1), L32.

86. A. P. Ravi, S. Valenti, Y. Dong, ...**J. R. Farah** et al. (2025). *Luminous Type II Short-plateau SN 2023ufx: Asymmetric Explosion of a Partially Stripped Massive Progenitor.* ApJ, 982(1), 12.

85. J. Röder, M. Wielgus, A. P. Lobanov, ...**J. R. Farah** et al. (2025). *A multifrequency study of sub-parsec jets with the Event Horizon Telescope.* AA, 695, A233.

84. A. Gagliano, V. A. Villar, T. Matsumoto, ...**J. R. Farah** et al. (2025). *Evidence for an Instability-Induced Binary Merger in the Double-Peaked, Helium-Rich Type II<sub>n</sub> Supernova 2023zkd.* arXiv, arXiv:2502.19469.

83. J. E. Andrews, M. Shrestha, K. A. Bostroem, ...**J. R. Farah** et al. (2025). *Asymmetries and Circumstellar Interaction in the Type II SN 2024bch.* ApJ, 980(1), 37.

82. N. Yesmin, C. Pellegrino, M. Modjaz, ...**J. R. Farah** et al. (2025). *Spectral dataset of young type Ib supernovae and their time evolution.* AA, 693, A307.

81. **Event Horizon Telescope Collaboration et al.** (2025). *The persistent shadow of the supermassive black hole of M87: II. Model comparisons and theoretical interpretations*. AA, 693, A265.
80. M. Newsome, I. Arcavi, D. A. Howell, ...**J. R. Farah et al.** (2024). *Mapping the Inner 0.1 pc of a Supermassive Black Hole Environment with the Tidal Disruption Event and Extreme Coronal-line Emitter AT 2022upj*. ApJ, 977(2), 258.
79. Y. Dong, D. Tsuna, S. Valenti, ...**J. R. Farah et al.** (2024). *SN2023fyq: A Type Ibn Supernova with Long-standing Precursor Activity Due to Binary Interaction*. ApJ, 977(2), 254.
78. C. Pellegrino, M. Modjaz, Y. Takei, ...**J. R. Farah et al.** (2024). *The X-Ray Luminous Type Ibn SN 2022ablq: Estimates of Preexplosion Mass Loss and Constraints on Precursor Emission*. ApJ, 977(1), 2.
77. A.-K. Bacsko, M. Kadler, E. Ros, ...**J. R. Farah et al.** (2024). *The putative center in NGC 1052*. AA, 692, A205.
76. J. C. Algaba, M. Baloković, S. Chandra, ...**J. R. Farah et al.** (2024). *Broadband multi-wavelength properties of M87 during the 2018 EHT campaign including a very high energy flaring episode*. AA, 692, A140.
75. H. Kumar, E. Berger, D. Hiramatsu, ...**J. R. Farah et al.** (2024). *AT2023vto: An Exceptionally Luminous Helium Tidal Disruption Event from a Massive Star*. ApJL, 974(2), L36.
74. Y. Dong, S. Valenti, C. Ashall, ...**J. R. Farah et al.** (2024). *Characterizing the Rapid Hydrogen Disappearance in SN 2022crv: Evidence of a Continuum between Type Ib and IIb Supernova Properties*. ApJ, 974(2), 316.
73. T. Szalai, R. Konyves-Toth, A. P. Nagy, ...**J. R. Farah et al.** (2024). *The story of SN 2021aatd: A peculiar 1987A-like supernova with an early-phase luminosity excess*. A&A, 690, A17.
72. Z. Bora, R. Konyves-Toth, J. Vinko, ...**J. R. Farah et al.** (2024). *Ejecta Masses in Type Ia Supernovae—Implications for the Progenitor and the Explosion Scenario*. PASP, 136, 9.
71. M. Shrestha, K. A. Bostroem, D. J. Sand, ...**J. R. Farah et al.** (2024). *Extended Shock Breakout and Early Circumstellar Interaction in SN 2024ggi*. ApJL, 972, 1, L15.
70. S. K. Yadavalli, A. V. Villar, L. Izzo, ...**J. R. Farah et al.** (2024). *SN 2022oqm: A Bright and Multi-peaked Calcium-rich Transient*. ApJ, 972, 2, 194.
69. A. W. Raymond, S. S. Doeleman, K. Asada, ...**J. R. Farah et al.** (2024). *First Very Long Baseline Interferometry Detections at 870 m*. AJ, 168, 3, 130.
68. W. Jacobson-Galan, L. Dessart, K. W. Davis, ...**J. R. Farah et al.** (2024). *Final Moments. II. Observational Properties and Physical Modeling of Circumstellar-material-interacting Type II Supernovae*. ApJ, 970, 2, 189.
68. S. Faris, I. Arcavi, L. Makrygianni, ...**J. R. Farah et al.** (2024). *Light-curve Structure and H Line Formation in the Tidal Disruption Event AT 2019azh*. ApJ, 969, 2, 104.
67. L. A. Kwok, M. R. Siebert, J. Johansson, ...**J. R. Farah et al.** (2024). *Ground-based and JWST Observations of SN 2022pul. II. Evidence from Nebular Spectroscopy for a Violent Merger in a Peculiar Type Ia Supernova*. ApJ, 966, 1, 135.



66. J. E. Andrews, J. Pearson, G. Hosseinzadeh, ...**J. R. Farah** et al. (2024). *SN 2022jox: An Extraordinarily Ordinary Type II SN with Flash Spectroscopy* . ApJ, 965, 1, 85.
65. <sup>S</sup>**Event Horizon Telescope Collaboration** et al. (2024). *First Sagittarius A\* Event Horizon Telescope Results. VII. Polarization of the Ring* ApJL, 964, 2, L25.
64. <sup>S</sup>**Event Horizon Telescope Collaboration** et al. (2024). *First Sagittarius A\* Event Horizon Telescope Results. VIII. Physical Interpretation of the Polarized Ring* ApJL, 964, 2, L26.
63. E. P. Gonzalez, D. A. Howell, G. Terreran ...**J. R. Farah** et al. (2024). *SN 2022joj: A Potential Double Detonation with a Thin Helium Shell* . ApJ, 961, 2, 196.
62. D. Hiramatsu, T. Matsumoto, E. Berger ...**J. R. Farah** et al. (2024). *Multiple Peaks and a Long Precursor in the Type II In Supernova 2021qqp: An Energetic Explosion in a Complex Circumstellar Environment* . ApJ, 961, 2, 181.
61. M. Shrestha, J. Pearson, S. Wyatt ...**J. R. Farah** et al. (2024). *Evidence of Weak Circumstellar Medium Interaction in the Type II SN 2023axu* . ApJ, 961, 2, 247.
60. M. Newsome, I. Arcavi, D. A. Howell, ...**J. R. Farah** et al. (2023). *Probing the Subparsec Dust of a Supermassive Black Hole with the Tidal Disruption Event AT 2020mot* . ApJ, 961, 2, 239.
59. G. Paraschos, J. Kim, M. Wielgus ...**J. R. Farah** et al. (2023). *Ordered magnetic fields around the 3C 84 central black hole*. A&A, 682, L3.
58. M. Siebert, L. Kwok, J. Johansson ...**J. R. Farah** et al. (2024). *Ground-based and JWST Observations of SN 2022pul. I. Unusual Signatures of Carbon, Oxygen, and Circumstellar Interaction in a Peculiar Type Ia Supernova* . ApJ, 960, 1, 88.
57. J. Pearson, D. Sand, P. Lundqvist, ...**J. R. Farah** et al. (2024). *Strong Carbon Features and a Red Early Color in the Underluminous Type Ia SN 2022xkq*. ApJ, 960, 1, 29.
56. <sup>S</sup>**Event Horizon Telescope Collaboration** et al. (2024). *The persistent shadow of the supermassive black hole of M 87. I. Observations, calibration, imaging, and analysis* A&A, 681, A79.
55. S. Faris, I. Arcavi, L. Makrygianni, ...**J. R. Farah** et al. (2023). *Light-Curve Structure and Halpha Line Formation in the Tidal Disruption Event AT 2019azh*. arXiv:2312.03842.
54. P. Torne, K. Liu, R. Eatough, ...**J. R. Farah** et al. (2023). *A Search for Pulsars around Sgr A\* in the First Event Horizon Telescope Data Set* ApJ, 959, 1.
53. F. Roelofs, M. Johnson, A. Chael, ...**J. R. Farah** et al. (2023). *Polarimetric Geometric Modeling for mm-VLBI Observations of Black Holes*. ApJL, 957, 2, L21.
52. <sup>S</sup>**Event Horizon Telescope Collaboration** et al. (2023). *First M87 Event Horizon Telescope Results. IX. Detection of Near-horizon Circular Polarization* ApJL, 957, 2, L20.
51. J. Andrews, J. Pearson, G. Hosseinzadeh, ...**J. R. Farah** et al. 2023. *SN 2022jox: An extraordinarily ordinary Type II SN with Flash Spectroscopy* . arXiv:2310.16092.
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