K. Azalee Bostroem

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Employment

LSSTC Catalyst Fellow University of Arizona, Tucson, AZ	2022-present
DiRAC Fellow University of Washington, Seattle, WA	2021-2022
UC President's Pre-Professoriate Fellow University of California, Davis, CA	2020-2021
Graduate Student Researcher University of California, Davis, CA	2015-2020
Supernova Spectroscopy Analyst University of Pittsburgh, Pittsburgh, PA	Fall 2015
Research and Instrument Analyst Space Telescope Science Institute, Baltimore, MD	2009-2014

Education

University of California, Davis Davis, CA, USA Ph.D. in Physics Thesis Advisor: Stefano Valenti	2014-2021
San Diego State University San Diego, CA, USA M.S. in Astronomy Thesis Advisor: Douglas Leonard	2006-2009
Vassar College Poughkeepsie, NY, USA B.A. in Mathematics California State and New York State Secondary Teaching Certification	2002-2006

Honors

NASA Hubble 25th Anniversary Commendation, HST Science Team	2016
Ray and Constance Chandler Fellowship	2014-2015
NASA Group Achievement Award, HST SM4 Servicing Implementation Team	2010
Cliff E. Smith and Ruth Kinnell Graduate Fellowship	2007-2008

Research Interests

Core-collapse supernovae and their progenitor systems
Transient astronomy
Big data management in astronomy
Development and support of astronomical pipelines and archives

Publication Summary

Number of refereed papers: 70
Total number of citations: 5,347
h-index: 18

Proposals & Grants

$36,554 / 4 orbits, Hubble Space Telescope 2023
Tracing the UV CSM Interaction over the First 50 Days in the Extremely Nearby SN 2023ixf in M101
P-I: K. Azalee Bostroem

$78,822 / 8 orbits, Hubble Space Telescope 2022-2023
The First Early FUV Observations of a Type IIP Supernova
P-I: K. Azalee Bostroem

8 half nights, Apache Point Observatory 2021-2022
Early Spectroscopic Observations of Supernovae with APO
P-I: K. Azalee Bostroem

$700, Diversity and Inclusion in Physics Travel Award 2019
American Astronomical Society Winter Meeting, 2020

14.63 hours, Gemini Observatory 2019-2020
Progenitors of Type II Supernovae from Nebular Spectra
P-I: K. Azalee Bostroem

$40,000, AIP Venture Partnership Fund 2017-2019
Developing a Data Carpentry Curriculum for Astronomers and Physicists
P-I: K. A. Bostroem & Rodolfo Montez

$800, FAMOUS Travel Grant 2018
.Astronomy Conference

25.5 hours, Gemini Observatory 2018-2019
Progenitors of SNe type II from nebular spectra
P-I: K. Azalee Bostroem

15 orbits, Hubble Space Telescope General Observer Program 2015-2016
The optical-UV extinction law in 30 Doradus
P-I: Jesus Maiz-Apellaniz
Admin P-I: K. Azalee Bostroem

6 orbits, Hubble Space Telescope Calibration Program 2013-2014
COS NUV Spectroscopic Sensitivity Monitoring
P-I: K. Azalee Bostroem

23 orbits, Hubble Space Telescope Calibration Program 2013-2014
COS FUV Spectroscopic Sensitivity Monitoring
P-I: K. Azalee Bostroem

6 orbits, Hubble Space Telescope Calibration Program 2012-2013
COS NUV Spectroscopic Sensitivity Monitoring
P-I: K. Azalee Bostroem

33 orbits, Hubble Space Telescope Calibration Program 2012-2013
COS FUV Spectroscopic Sensitivity Monitoring
P-I: K. Azalee Bostroem

	12 orbits, Hubble Space Telescope Calibration Program MAMA Spectroscopic Sensitivity and Focus Monitor Cycle 19 **P-I: K. Azalee Bostroem**	2011-2012
	5 orbits, Hubble Space Telescope Calibration Program STIS/CCD Spectroscopic Sensitivity Monitor for Cycle 19 **P-I: K. Azalee Bostroem**	2011-2012
Invited Talks	Carnegie Observatories, Pasadena, CA	Feb 2023
	The Future of Transient Science with the Roman Space Telescope, American Astronomical Society 241st Meeting, Seattle, WA	Jan 2023
	Washington State University, Pullman, WA	Nov 2022
	German Astronomical Society, Bremen, Germany	Sept 2022
	DiRAC Seminar Series, University of Washington, Seattle, WA	May 2021
	Astrophysics Seminar, University of California, San Diego/ San Diego State University, San Diego, CA	Feb 2021
	Astronomical Data Analysis Software and Systems Conference	Nov 2020
	Astronomy Seminar, Michigan State University	Aug 2020
	Transients Around the Globe, Weizmann Institute of Science, Rehovot, Israel	Apr 2019
	Astronomy and Astrophysics Seminar, Tel Aviv University, Tel Aviv, Israel	Apr 2019
	Time-Domain Follow-up Observations with Las Cumbres Observatory, American Astronomical Society 233rd Meeting, Seattle, WA	Jan 2019
	Keynote; Python in Astronomy, Lorentz Center, Leiden, NL	May 2017
	Northern California Graduate Physics Admissions Bootcamp at UC Davis, Davis, CA	Aug 2017
	California State Summer School for Mathematics and Science at UC Davis, Davis, CA	Aug 2017
	Stellar and Extragalactic Astronomy Lunch at the Goddard Space Flight Center, Greenbelt, MD	Jun 2014
Contributed Talks	Supernova Explosions: Theory and Observations, Haifa, Israel	Aug 2023
	Transient and Variable Universe, Urbana-Champagne, IL	Jun 2023
	American Astronomical Society 241st Meeting, Seattle, WA	Jan 2023
	American Astronomical Society 235th Meeting Dissertation Talk, Honolulu, HI	Jan 2020
	Astrophysics and Cosmology Symposium, Davis, CA	Sep 2019
	The Extragalactic Explosive Universe, Garching, DE	Sep 2019
	American Astronomical Society 233rd Meeting, Seattle, WA	Jan 2019
	Astrophysics and Cosmology Symposium, Davis, CA	Sep 2019
	STScI TIPS/JIM Monthly Meeting, Baltimore, MD	Mar 2012
Mentored Students	Ezra Thompson Added incomplete trapping to derive accurate nickel masses from Type II supernovae	Fall 2021

Yasin Chowdhury 2021-2022
Added incomplete trapping to derive accurate nickel masses from Type II supernovae

Nicolas Meza (w/ Stefano Valenti) 2020-present
Characterized Type II SN 2021gmj with Las Cumbres Observatory images.

Yize Dong (w/ Stefano Valenti) 2020-2021
Characterized Type II SN 2018cuf and observed nebular supernovae with Keck and Gemini

Isabele Ye (w/ Stefano Valenti) 2018-2019
Monitor the data acquisition of Type II SNe observed with the Las Cumbres Observatory as part of the Global Supernova Project to ensure the complete light curve is observed.

Gayle Zhang (w/ Stefano Valenti) 2017-2018
Derived the radius around saturated stars within which supernova detections in the DLT40 survey should be considered false positives.

Martha Saladino (w/ Justin Ely) Summer 2012
Refined the flux calibration of the HST/COS spectroscopy by characterizing throughput as a function of time.

Kenneth Hart 2011-2012
Improved the calibration of the HST/COS and HST/STIS NUV detectors by characterizing the vignetted region on each.

Inna Bojinova Summer 2011
Improved the flux calibration of the HST/COS spectroscopy by characterizing throughput as a function of wavelength.

Skills

Expert knowledge of Python, Git/GitHub
Working knowledge of UNIX, IDL, PyRAF, SQL, HTML
Experience using cluster computing resources at UC Davis

Observing Experience

8 half nights, Optical Spectroscopy (*APO/DIS, APO/KOSMOS*)
6 nights, Optical Spectroscopy and Imaging (*Lick Observatory/KAST, Nickel, ShARCS*)
18 half nights, Optical Spectroscopy (*Keck/LRIS; Keck/DEIMOS*)
3 nights, Optical Imaging (*Mount Laguna Observatory/40-inch*)

Instrument and Software Support

Global Supernova Project Pipeline Project Manager
Lead the development and testing of updates to the Photometry Pipeline for the Global Supernova Project, create a user manual, run weekly office hours, and organize tutorials to enable community use.

HST/COS and HST/STIS Calibration Pipeline Lead

Supervised the development and testing of the HST/COS and HST/STIS pipelines coordinating between the scientists, software developers, and archive team.

Instrument Monitoring and Calibration
Improve the quality of HST/STIS and HST/COS observations through the development of monitoring tools and the development and testing of new calibration reference files.

User Support Deputy
Maintained the internal and external web pages, created and delivered Space Telescope Analysis Newsletters, answered help desk questions, and tracked user support issues

Service & Outreach

Curriculum Advisory Committee Chair 2022-present
Chair the curriculum advisory committee for the Foundations on Astronomical Data Science data carpentry curriculum.

Carpentries Workshops at AAS Meetings 2014-present
Organize and teach Software Carpentry and Data Carpentry Workshops at the AAS Meetings.

Space Drafts, Tucson, AZ 2023
Describe the history and impact of the Hubble Space telescope at free, public event in Tucson.

Carpentries Workshop at ADASS 2023
Organize and teach Software Carpentry workshop at ADASS meeting.

Foundations of Astronomical Data Science Lesson Maintainer 2021-2023
Incorporated community feedback and implemented curriculum changes via GitHub to the Foundations of Astronomical Data Science data carpentry curriculum.

AAS Committee on Employment 2020-2023
Support the employment and professional development of astronomers in academia and industry.

Astronomy on Tap Seattle, Seattle, WA 2022
Describe my supernova research at free, public event in Seattle.

PreMAP Mentor, Seattle, WA 2021
Provided mentorship and an introduction to research for two undergraduate students as part of the Pre-Major in Astronomy Program at University of Washington

Anti-racisum Training Working Group, Davis, CA 2020-2021
Map out a short, intermediate, and long term plan to implement anti-racism training for all involved with graduate education at UC Davis

Code Review Leader, Davis, CA 2015-2021

Organize and lead weekly meetings attended by graduate students, post-docs, research staff, and faculty to improve and share coding knowledge and best practices.

Diversity and Inclusion in Physics Group Member and Co-Leader, Davis, CA 2014-2021
Bring discussions, programs, and activities to the department to improve the departmental culture surrounding diversity, equity, and inclusion.

Mount Diablo Astronomical Society, CA 2020
Describe my supernova research at free, public, meeting of the Mount Diablo Astronomical Society.

Astronomy on Tap, Davis, CA 2019
Describe the history of the Hubble Space Telescope at free, public event in Davis.

Python in Astronomy SOC member 2017-2018
Organized and coordinated the 2018 Python in Astronomy conference.

Python Lesson Maintainer, Software Carpentry Lessons 2014-2016
Provide feedback on and incorporate suggested improvements to the Python lesson using git and GitHub.

Scipy Conference Proceedings Editor 2015
Edited conference proceedings via GitHub for conference on scientific computing with Python.

HST Spectroscopic Legacy Working Group, STScI 2013-2014
Worked to define tools to improve spectroscopic archival products and interface for the HST spectrographs.

STScI Summer Student Selection Committee, Baltimore, MD 2012
Evaluated applications for the Space Astronomy Summer Program at STScI.

HST Calibration Workshop Organizing Committee 2012
Organized and Coordinated the HST Calibration Workshop.

Project Astro Astronomer, San Diego, CA 2007-2008
Brought hands on astronomy projects to a third grade class.

Teaching Experience

Lead Instructor, Foundations of Astronomical Data Science Workshops 2020-Present
Organize and lead two day workshops focused on astronomical skills and data sets. Workshops focus on using Python to query an SQL database, filtering and visualizing results, and best data management practices.

Project Lead, Foundations of Astronomical Data Science Curriculum Development 2020-Present
Supervise and co-create a two-day open source (CC-BY) workshop to develop skills to essential for working with current and future astronomical datasets. The curriculum focuses on using Python to query and join SQL databases, filtering and visualizing results, and best data management practices.

Lead Instructor, Software Carpentry Workshops 2012-Present

Lead two day workshops at more than 20 international institutions and conferences to enable scientists to work more efficiently and reproducibly by improving their coding skills. Workshops include Python, Git, Unix, test driven development, object oriented and functional programming.

Co-instructor, University of California (Data Science for Science) Spring 2020

Co-developed and taught graduate curriculum based on feedback from alumni in data science on skills they wish they had during their PhD. This included version control, integrated development environments, SQL, advanced python, communication, and collaboration.

Teaching Assistant, University of California (PHYS 7A, 7B) 2014-2018

Guided students through lab work to understand thermodynamics, mechanics, electrical circuits, and fluid dynamics with lecture, small group work, and whole class discussions.

Lead Teaching Assistant, San Diego State University Fall 2008

Supervised astronomy lab instructors and prepared them to teach each week.

Teaching Assistant, San Diego State University 2006-2009

Enabled a better understanding of general astronomy through hand on applications of topics covered in lecture. Prepared labs, developed lesson plans and curriculum.

Mathematics Teacher, Ross Valley Summer School Summer 2006

Designed the curriculum and lesson plans for and taught first through sixth grade mathematics.

Mathematics Student Teacher, Poughkeepsie High School Fall 2006

Created lesson plans and taught a full course load (five periods) of high school mathematics.

Science Teacher and Curriculum Designer, Crossroads Summer Camp Summer 2003, 2004

Created a curriculum and lesson plans for and taught sixth, seventh, and eighth grade science courses.

Publication List

First Author Refereed Publications (ADS link)

5. Considering the Single and Binary Origins of SN 2017eaw
Bostroem, K. A., Zapartas, E., Koplitz, B., Williams, B., Tran, D., Dolphin, A., 2023, submitted

4. Early Spectroscopy and Dense Circumstellar Medium Interaction in SN 2023ixf
Bostroem, K. A., Pearson, J., Shrestha, M., Sand, D. J., Valenti, S., Jha, S. W., Andrews, J. E., Smith, N., Terreran, G., Green, E., Dong, Y., Lundquist, M., Haislip, J., Hoang, E. T., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Kouprianov, V., Paraskeva, E., Meza Retamal, N. E., Reichart, D. E., Arcavi, I., Bonanos, A. Z., Coughlin, M. W., Farah, J., Hawley, S., Hebb, L., Hiramatsu, D., Howell, D. A., Iijima, T., Ilyin, I., McCully, C., Moran, S., Morris, B. M., Mura, A. C., Newsome, M., Pabst, M. T., Ochner, P., Padilla Gonzalez, E., Pastorello, A., Pellegrino, C., Ravi, A. P., Reguitti, A., Salo, L., Vinko, J., Wheeler, J. C., Williams, G. G., Wyatt, S., 2023, accepted to ApJL, arXiv, (ADS link)

3. SN 2022acko: The First Early Far-ultraviolet Spectra of a Type IIP Supernova
Bostroem, K. A., Dessart, L., Hillier, D. J., Lundquist, M., Andrews, J. E., Sand, D. J., Dong, Y., Valenti, S., Haislip, J., Hoang, E. T., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Jha, S. W., Kouprianov, V., Pearson, J., Meza Retamal, N. E., Reichart, D. E., Shrestha, M., Ashall, C., Baron, E., Brown, P. J., DerKacy, J. M., Farah, J., Galbany, L., González Hernández, J. I., Green, E., Hoeflich, P., Howell, D. A., Kwok, L. A., McCully, C., Müller-Bravo, T. E., Newsome, M., Gonzalez, E. P., Pellegrino, C., Rho, J., Rowe, M., Schwab, M., Shahbandeh, M., Smith, N., Strader, J., Terreran, G., Van Dyk, S. D., Wyatt, S., 2023, ApJL, 953 (ADS link)

2. Discovery and Rapid Follow-up Observations of the Unusual Type II SN 2018ivc in NGC 1068
Bostroem, K. A., Valenti, S., Sand, D. J., Andrews, J. E., Van Dyk, S. D., Galbany, L., Pooley, D., Amaro, R. C., Smith, N., Yang, S., Anupama, G. C., Arcavi, I., Baron, E., Brown, P. J., Burke, J., Cartier, R., Hiramatsu, D., Dastidar, R., DerKacy, J. M., Dong, Y., Egami, E., Ertel, S., Filippenko, A. V., Fox, O. D., Haislip, J., Hosseinzadeh, G., Howell, D. A., Gangopadhyay, A., Jha, S. W., Kouprianov, V., Kumar, B., Lundquist, M., Milisavljevic, D., McCully, C., Milne, P., Misra, K., Reichart, D. E., Sahu, D. K., Sai, H., Singh, A., Smith, P. S., Vinko, J., Wang, X., Wang, Y., Wheeler, J. C., Williams, G. G., Wyatt, S., Zhang, J., Zhang, X., 2020, ApJ, 895 (ADS link)

1. Signatures of circumstellar interaction in the Type IIL supernova ASASSN-15oz
Bostroem, K. A., Valenti, S., Horesh, A., Morozova, V., Kuin, N. P. M., Wyatt, S., Jerkstrand, A., Sand, D. J., Lundquist, M., Smith, M., Sullivan, M., Hosseinzadeh, G., Arcavi, I., Callis, E., Cartier, R., Gal-Yam, A., Galbany, L., Gutiérrez, C., Howell, D. A., Inserra, C., Kankare, E., López, K. M., McCully, C., Pignata, G., Piro, A. L., Rodríguez, Ó., Smartt, S. J., Smith, K. W., Yaron, O., Young, D. R., 2019, MNRAS, 485 (ADS link)

Co-Author Refereed Publications (ADS link)

67. Ground-based and JWST Observations of SN 2022pul: I. Unusual Signatures of Carbon, Oxygen, and Circumstellar Interaction in a Peculiar Type Ia

Supernova
Siebert, M. R., Kwok, L. A., Johansson, J., Jha, S. W., Blondin, S., Dessart, L., Foley, R. J., Hillier, D. J., Larison, C., Pakmor, R., Temim, T., Andrews, J. E., Auchettl, K., Badenes, C., Barna, B., **Bostroem, K. A.**, Brenner Newman, M. J., Brink, T. G., José Bustamante-Rosell, M., Camacho-Neves, Y., Clocchiatti, A., Coulter, D. A., Davis, K. W., Deckers, M., Dimitriadis, G., Dong, Y., Farah, J., Filippenko, A. V., Flörs, A., Fox, O. D., Garnavich, P., Padilla Gonzalez, E., Graur, O., Hambsch, F.-J., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Kerzendorf, W. E., Le Saux, X. K., Maeda, K., Maguire, K., McCully, C., Mihalenko, C., Newsome, M., O'Brien, J. T., Pearson, J., Pellegrino, C., Pierel, J. D. R., Polin, A., Rest, A., Rojas-Bravo, C., Sand, D. J., Schwab, M., Shahbandeh, M., Shrestha, M., Smith, N., Strolger, L.-G., Szalai, T., Taggart, K., Terreran, G., Terwel, J. H., Tinyanont, S., Valenti, S., Vinkó, J., Wheeler, J. C., Yang, Y., Zheng, W., Ashall, C., Derkacy, J. M., Galbany, L., Hoeflich, P., Hsiao, E., De Jaeger, T., Lu, J., Maund, J., Medler, K., Morrell, N., Shappee, B. J., Stritzinger, M., Suntzeff, N., Tucker, M., Wang, L., 2023, arXiv, (ADS link)

66. Ground-based and JWST Observations of SN 2022pul: II. Evidence from Nebular Spectroscopy for a Violent Merger in a Peculiar Type-Ia Supernova
Kwok, L. A., Siebert, M. R., Johansson, J., Jha, S. W., Blondin, S., Dessart, L., Foley, R. J., Hillier, D. J., Larison, C., Pakmor, R., Temim, T., Andrews, J. E., Auchettl, K., Badenes, C., Barna, B., **Bostroem, K. A.**, Brenner Newman, M. J., Brink, T. G., Bustamante-Rosell, M. J., Camacho-Neves, Y., Clocchiatti, A., Coulter, D. A., Davis, K. W., Deckers, M., Dimitriadis, G., Dong, Y., Farah, J., Filippenko, A. V., Flors, A., Fox, O. D., Garnavich, P., Padilla Gonzalez, E., Graur, O., Hambsch, F.-J., Hosseinzadeh, G., Howell, D. A., Hughes, J. P., Kerzendorf, W. E., Le Saux, X. K., Maeda, K., Maguire, K., McCully, C., Mihalenko, C., Newsome, M., O'Brien, J. T., Pearson, J., Pellegrino, C., Pierel, J. D. R., Polin, A., Rest, A., Rojas-Bravo, C., Sand, D. J., Schwab, M., Shahbandeh, M., Shrestha, M., Smith, N., Strolger, L.-G., Szalai, T., Taggart, K., Terreran, G., Terwel, J. H., Tinyanont, S., Valenti, S., Vinko, J., Wheeler, J. C., Yang, Y., Zheng, W., Ashall, C., DerKacy, J. M., Galbany, L., Hoeflich, P., de Jaeger, T., Lu, J., Maund, J., Medler, K., Morrell, N., Shappee, B. J., Stritzinger, M., Suntzeff, N., Tucker, M., Wang, L., 2023, arXiv, (ADS link)

65. SN 2022joj: A Potential Double Detonation with a Thin Helium shell
Padilla Gonzalez, E., Howell, D. A., Terreran, G., McCully, C., Newsome, M., Burke, J., Farah, J., Pellegrino, C., **Bostroem, K. A.**, Hosseinzadeh, G., Pearson, J., Sand, D. J., Shrestha, M., Smith, N., Dong, Y., Meza Retamal, N., Valenti, S., Boos, S., Shen, K. J., Townsley, D., Galbany, L., Piscarreta, L., Foley, R. J., Bustamante-Rosell, M. J., Coulter, D. A., Chornock, R., Davis, K. W., Dickinson, C. B., Jones, D. O., Kutcka, J., Le Saux, X. K., Rojas-Bravo, C. R., Taggart, K., Tinyanont, S., Yang, G., Jha, S. W., Margutti, R., 2023, arXiv, (ADS link)

64. A comprehensive optical search for pre-explosion outbursts from the quiescent progenitor of SN 2023ixf
Dong, Y., Sand, D. J., Valenti, S., **Bostroem, K. A.**, Andrews, J. E., Hosseinzadeh, G., Hoang, E., Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Shrestha, M., Haislip, J., Kouprianov, V., Reichart, D. E., 2023, accepted, arXiv, (ADS link)

63. From Discovery to the First Month of the Type II Supernova 2023ixf: High and Variable Mass Loss in the Final Year Before Explosion
Hiramatsu, D., Tsuna, D., Berger, E., Itagaki, K., Goldberg, J. A., Gomez, S., De, K., Hosseinzadeh, G., **Bostroem, K. A.**, Brown, P. J., Arcavi, I., Bieryla, A., Blanchard, P.

K., Esquerdo, G. A., Farah, J., Howell, D. A., Matsumoto, T., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Rhee, J., Terreran, G., Vinkó, J., Wheeler, J. C., 2023, accepted, arXiv, (ADS link)

62. High resolution spectroscopy of SN 2023ixf's first week: Engulfing the Asymmetric Circumstellar Material
Smith, N., Pearson, J., Sand, D. J., Ilyin, I., **Bostroem, K. A.**, Hosseinzadeh, G., Shrestha, M., 2023, accepted, arXiv, (ADS link)

61. A Low-Mass Helium Star Progenitor Model for the Type Ibn SN 2020nxt
Wang, Q., Goel, A., Dessart, L., Fox, O. D., Shahbandeh, M., Rest, S., Rest, A., Groh, J. H., Allan, A., Fransson, C., Smith, N., Hosseinzadeh, G., Filippenko, A. V., Andrews, J., **Bostroem, K. A.**, Brink, T. G., Brown, P., Burke, J., Chevalier, R., Clayton, G. C., Dai, M., Davis, K. W., Foley, R. J., Gomez, S., Harris, C., Hiramatsu, D., Howell, D. A., Jennings, C., Jha, S. W., Kasliwal, M. M., Kelly, P. L., Kool, E. C., Liu, E., Ma, E., McCully, C., Miller, A. M., Murakami, Y., Pellegrino, C., Padilla Gonzalez, E., Perera, D., Pierel, J., Rojas-Bravo, C., Siebert, M. R., Sollerman, J., Szalai, T., Tinyanont, S., Van Dyk, S. D., Zheng, W., Chambers, K. C., Coulter, D. A., de Boer, T., Earl, N., Farias, D., Gall, C., McGill, P., Ransome, C. L., Taggart, K., Villar, V. A., 2023, arXiv, (ADS link)

60. Early Lightcurves of Type Ia Supernovae are Consistent with Nondegenerate Progenitor Companions
Burke, J., Howell, D. A., Sand, D. J., Amaro, R. C., Brown, P. J., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Haislip, J., Hiramatsu, D., Hosseinzadeh, G., Kouprianov, V., Lundquist, M. J., McCully, C., Pellegrino, C., Reichart, D., Tartaglia, L., Valenti, S., Yang, S., 2022, arXiv, (ADS link)

59. Identifying the SN 2022acko progenitor with JWST
Van Dyk, S. D., **Bostroem, K. A.**, Zheng, W., Brink, T. G., Fox, O. D., Andrews, J. E., Filippenko, A. V., Dong, Y., Hoang, E., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Lundquist, M. J., Meza, N., Milisavljevic, D., Pearson, J., Sand, D. J., Shrestha, M., Valenti, S., Howell, D. A., 2023, MNRAS, 524 (ADS link)

58. SN 2020bio: A Double-peaked, H-poor Type IIb Supernova with Evidence of Circumstellar Interaction
Pellegrino, C., Hiramatsu, D., Arcavi, I., Howell, D. A., **Bostroem, K. A.**, Brown, P. J., Burke, J., Elias-Rosa, N., Itagaki, K., Kaneda, H., McCully, C., Modjaz, M., Padilla Gonzalez, E., Pritchard, T. A., Yesmin, N., 2023, ApJ, 954 (ADS link)

57. The Early Light Curve of SN 2023bee: Constraining Type Ia Supernova Progenitors the Apian Way
Hosseinzadeh, G., Sand, D. J., Sarbadhicary, S. K., Ryder, S. D., Jha, S. W., Dong, Y., **Bostroem, K. A.**, Andrews, J. E., Hoang, E., Janzen, D., Jencson, J. E., Lundquist, M., Meza Retamal, N. E., Pearson, J., Shrestha, M., Valenti, S., Wyatt, S., Farah, J., Howell, D. A., McCully, C., Newsome, M., Padilla Gonzalez, E., Pellegrino, C., Terreran, G., Alzaabi, M., Green, E. M., Gurney, J. L., Milne, P. A., Ridenhour, K. I., Smith, N., Robles, P. S., Kwok, L. A., Schwab, M., Gromadzki, M., Buckley, D. A. H., Itagaki, K., Hiramatsu, D., Chomiuk, L., Lundqvist, P., Haislip, J., Kouprianov, V., Reichart, D. E., 2023, ApJL, 953 (ADS link)

56. AT 2021loi: A Bowen Fluorescence Flare with a Rebrightening Episode Occurring in a Previously Known AGN

Makrygianni, L., Trakhtenbrot, B., Arcavi, I., Ricci, C., Lam, M. C., Horesh, A., Sfaradi, I., **Bostroem, K. A.,** Hosseinzadeh, G., Howell, D. A., Pellegrino, C., Fender, R., Green, D. A., Williams, D. R. A., Bright, J., 2023, ApJ, 953 (ADS link)

55. A Luminous Red Supergiant and Dusty Long-period Variable Progenitor for SN 2023ixf
Jencson, J. E., Pearson, J., Beasor, E. R., Lau, R. M., Andrews, J. E., **Bostroem, K. A.**, Dong, Y., Engesser, M., Gomez, S., Guolo, M., Hoang, E., Hosseinzadeh, G., Jha, S. W., Karambelkar, V., Kasliwal, M. M., Lundquist, M., Meza Retamal, N. E., Rest, A., Sand, D. J., Shahbandeh, M., Shrestha, M., Smith, N., Strader, J., Valenti, S., Wang, Q., Zenati, Y., 2023, ApJL, 952 (ADS link)

54. Shock Cooling and Possible Precursor Emission in the Early Light Curve of the Type II SN 2023ixf
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