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CURRENT RESEARCH and INTERESTS:

- High-energy solar physics, especially particle acceleration, energy transport, and plasma heating resulting from the explosive release of energy in magnetized plasma during solar eruptive events (flares and coronal mass ejections), particularly using X-ray, extreme ultraviolet (EUV), and near-infrared (NIR) remote sensing observations
- The relation of energetic processes on the Sun to similar processes elsewhere, e.g., stellar flares, magnetar bursts, accretion disk flares, planetary magnetotail reconnection, etc.
- The effects of solar variability and solar eruptive events on the heliosphere, including space weather and its interaction with Earth and other planets, e.g., relativistic particle storms, auroral X-rays, ionospheric effects, etc.
- Developing new instrumentation and mission concepts to further studies of the above, including CubeSats, sounding rockets, long-duration balloons, & airborne observatories

EDUCATION:

- Ph.D.* University of California, Berkeley (2010 May)
Physics (*Dissertation: Super-hot ($T > 30$ MK) Thermal Plasma in Solar Flares;*
Ph.D. Advisor: Robert P. Lin)
- M.A.* University of California, Berkeley (2010 May)
Physics
- B.S.* University of Maryland, College Park (2001 May)
Physics (*High Honors, cum laude*)
Astronomy (*High Honors, cum laude*)
Computer Science & Mathematics (*Honors, cum laude*)
University Honors Citation (1998 December)

WORK EXPERIENCE:

- 2022–present* **Section Manager** – Instrumentation & Measurement Section, Department of Solar and Heliospheric Physics, Southwest Research Institute, Boulder
- 2020–2022* **Group Leader** – Heliophysics Section, Southwest Research Institute, Boulder
- 2019–present* **Principal Scientist** – Southwest Research Institute, Boulder
- 2016–2019* **Senior Research Scientist** – Southwest Research Institute, Boulder
- 2014–2016* **Research Scientist** – Southwest Research Institute, Boulder
Analyzing data from SDO/EVE, RHESSI, & MinXSS, emphasizing solar flares (energetics, super-hot plasma, electron acceleration), coronal heating & temperature distributions, & influence of coronal X-ray/EUV emission on geospace; PI of CubIXSS CubeSat, SMASH (Antarctic balloon piggyback) & upgraded SMASH-X, NASA WB-57 airborne total solar eclipse 2017, 2024, and 2026 missions, Citizen CATE 2024 eclipse mission; lead of COMPLETE mission concept for Heliophysics Decadal Survey; Co-I of MinXSS, IM-

PRESS, & PADRE CubeSats; Co-I of IMPRESS-2 (Antarctic balloon piggy-back); Co-I & STC Instrument Scientist for FOXSI SMEX (Phase A) and FIERCE MIDEX concept; Co-I & lead mentor/liaison for PUNCH STEAM student-built instrument; systems engineering for B-SSIPP (balloon-borne solar pointing platform); support for RAISE sounding rocket 2017 launch

- 2011–2014* **Research Associate** – LASP, Univ. of CO, Boulder
Analyzed EUV & X-ray data from SDO/EVE & RHESSI, emphasizing solar flares, flare energetics, super-hot plasma, & electron acceleration; Co-I of 3U MinXSS CubeSat for solar soft X-ray observations; instrument scientist for GOES-R series EXIS (EUV & X-ray Irradiance Sensors); Co-I of two EVE calibration rocket underflights with new solar X-ray instrumentation
- 2010–2011* **Postdoctoral Scholar** – Space Sciences Lab, Univ. of CA, Berkeley
Analyzed RHESSI hard X-ray data, emphasizing solar flares – energetics, super-hot plasma, & electron acceleration – in continuation of graduate work
- 2001–2010* **Graduate Student Researcher** – Space Sciences Lab, Univ. of CA, Berkeley
Studied solar flares, including thermal plasma and electron acceleration, focusing on the study of super-hot plasma via RHESSI X-ray spectra and images; investigated concepts for hard X-ray spectropolarimetry; performed extensive data-driven calibration of RHESSI low-energy response for highly accurate spectroscopy below 10 keV; performed lab tests to determine post-anneal performance of RHESSI germanium detectors

TEACHING EXPERIENCE:

- 2020–2023* **Mentor** – Research Experience for Undergraduates (REU), SwRI, Boulder
- Amelia Bettati (Elon Univ.) – planning for Citizen CATE 2024 distributed citizen science experiment for 2024 total solar eclipse
 - Sarah Davis (Northern Colo. Univ.) – planning for Citizen CATE 2024 distributed citizen science experiment for 2024 total solar eclipse
 - Lauryn Williams (Univ. of MO, astronomy) – analysis of 2017 total solar eclipse data from NASA WB-57 & NSF AIR-Spec airborne instruments
- 2019–present* **Mentor/advisor** – Colorado Space Grant Consortium, Univ. of CO, Boulder
PUNCH/STEAM student X-ray instrument – providing mentorship and guidance to student team for instrument development; liaison with PUNCH team
- 2014–2017* **Ph.D. dissertation committee** – Christopher S. Moore, Univ. of CO, Boulder
External member; Ph.D. dissertation in solar flare X-ray studies and technology development of high-reflectivity UV optical coatings for astrophysics
- 2012–2016* **Assistant Ph.D. advisor** – James P. Mason, Univ. of CO, Boulder
Providing science mentorship and guidance for studies of solar flares and coronal mass ejections, under primary advisorship of Dr. Thomas N. Woods
- 2012–2014* **Mentor, guest lecturer** – Aerospace Eng. Sci. Dept., Univ. of CO, Boulder
CubeSat Graduate Student Projects – mentoring and advising graduate students on development of [funded] NASA CubeSat for solar flare X-ray observations (MinXSS: Miniature X-ray Solar Spectrometer)
- 2012–2014* **Mentor** – Research Experience for Undergraduates (REU), Univ. of CO, Boulder
- Christina Wilson (Wichita State Univ., aerospace) – IDL programming for

- CubeSat data processing and end-to-end testing
 - Seth Folley (St. Mary's Univ., physics) – programming and performance testing of CubeSat electrical power system
 - Jordan Stone (Univ. of AR, Fayetteville, physics) – analysis of solar soft X-ray data from Amptek X123 on June 2012 SDO/EVE sounding rocket
- 2007, fall **Graduate Reader** – Physics Dept., Univ. of CA, Berkeley
Physics 242A: Theoretical Plasma Physics
- 2003, fall **Graduate Student Instructor** – Astronomy Dept., Univ. of CA, Berkeley
Astro 10: Introduction to General Astronomy (2 sections)
- 2001, spring **Undergraduate Teaching Assistant** – Astronomy Dept., UMD, College Park
Astro 430: The Solar System
- 2001, spring **Undergraduate Grader** – Physics Dept., Univ. of Maryland, College Park
Physics 161: General Physics: Mechanics and Particle Dynamics
- 1997–2001 **Instructor** – Sleiman Technologies, Inc. – Falls Church, VA
Taught computer programming in C/C++/Perl/UNIX at George Washington University's Center for Career Education in Washington, D.C., including development of a custom curriculum, class projects, and exams

PROFESSIONAL SOCIETIES:

- 2020–present International Astronomical Union, Divisions B–E & G
- 2003–present American Astronomical Society, Solar Physics Division
- 2002–present American Geophysical Union

REFEREED PUBLICATIONS – published or submitted:

41. Plowman, J., Seaton, D. B., **Caspi, A.**, Hughes, J. M., & West, M. J. 2023. “High-fidelity 3D Reconstruction of Solar Coronal Physics with the Updated CROBAR Method.” *Astrophys. J.*, in revision [arXiv: 2309.08053]
40. Battaglia, A. F., Hudson, H., Warmuth, A., Collier, H., Jeffrey, N. L. S., **Caspi, A.**, Dickson, E. C. M., Saqri, J., Purkhart, S., Veronig, A. M., Harra, L., & Krucker, S. 2023, “The existence of hot X-ray onsets in solar flares.” *Astron. Astrophys.*, **679**, A139 [DOI: 10.1051/0004-6361/202347706]
39. Woods, T. N., Schwab, B., Sewell, R., Kandala, A. K. T., Mason, J. P., **Caspi, A.**, Eden, T., Chandran, A., Chamberlin, P. C., Jones, A. R., Moore, C. S., Solomon, S., & Warren, H. P. 2023, “Overview of the Solar Soft X-ray Irradiance (SXR) Measurements from the Third Generation Miniature X-ray Solar Spectrometer (MinXSS).” *Astrophys. J.*, **956**, 94 [DOI: 10.3847/1538-4357/acef13]
38. Goodrich, K., Cohen, I. J., Schwartz, S., Wilson III, L. B. Turner, D., **Caspi, A.**, Smith, K., Rose, R., Whittlesey, P., & Plaschke, F. 2023, “The Multi-point Assessment of the Kinematics of Shocks (MAKOS).” *Front. Astron. Space Sci.*, **10**, 1199711 [DOI: 10.3389/fspas.2023.1199711]
37. West, M. J., Seaton, D. B., Wexler, D. B., Raymond, J. C., Del Zanna, G., Rivera, Y. J., Kobelski, A. R., DeForest, C., Golub, L., **Caspi, A.**, Gilly, C. R., Kooi, J. E., Alterman, B. L., Alzate, N., Banerjee, D., Berghmans, D., Chen, B., Chitta, L. P., Downs, C., Giordano, S., Higginson, A., Howard, R. A., Mason, E., Mason, J. P., Meyer, K. A., Nykyri, K., Rachmeler, L., Reardon, K. P., Reeves, K. K., Savage, S., Thompson, B. J., Van Kooten, S. J., Viall,

- N. M., & Vourlidas, A. 2023, “Defining the Middle Corona.” *Solar Physics*, **298**, 78 [DOI: 10.1007/s11207-023-02170-1]
36. Barbhuiya, M. H., Cassak, P. A., Shay, M. A., Roytershteyn, V., Swisdak, M., **Caspi, A.**, Runov, A., & Liang, H. 2022, “Scaling of electron heating by magnetization during reconnection and applications to dipolarization fronts and super-hot solar flares.” *J. Geophys. Res.: Space Phys.*, **127**, e2022JA030610 [DOI: 10.1029/2022JA030610]
35. Spence, H., **Caspi, A.**, Bahcivan, H., Nieves-Chinchilla, J., Crowley, G., Cutler, J., Fish, C., Jackson, D., Mason, J. P., Moretto Jørgensen, T., Klumpar, D., Li, X., Paschalidis, N., Sample, J., Swenson, C. M., & Woods, T. N. 2022, “Recent Achievements and Lessons Learned from Small Satellite Missions for Space Weather-Oriented Research.” *Space Weather*, **20**, e2021SW003031 [DOI: 10.1029/2021SW003031]
34. Nagasawa, S., Kawate, T., Narukage, N., Takahashi, T., **Caspi, A.**, & Woods, T. N. 2022, “Study of Time Evolution of Thermal and Non-Thermal Emission from an M-Class Solar Flare.” *Astrophys. J.*, **933**, 173 [DOI: 10.3847/1538-4357/ac7532]
33. **Caspi, A.**, Barthelemy, M., Bussy-Virat, C. D., Cohen, I. J., DeForest, C. E., Jackson, D. R., Vourlidas, A., & Nieves-Chinchilla, T. 2022, “Small Satellite Mission Concepts for Space Weather Research and Operations.” *Space Weather*, **20**, e2020SW002554 [DOI: 10.1029/2020SW002554]
32. Seaton, D. B., Hughes, J. M., Tadikonda, S. K., **Caspi, A.**, DeForest, C., Krimchansky, A., Hurlburt, N. E., Seguin, R., & Slater, G. 2021, “The Sun’s dynamic extended corona observed in extreme ultraviolet.” *Nature Astron.*, **5**, 1029 [DOI: 10.1038/s41550-021-01427-8]
31. Verkhoglyadova, O. P., Bussy-Virat, C. D., **Caspi, A.**, Jackson, D. R., Kalegaev, V., Klenzing, J., Nieves-Chinchilla, J., & Vourlidas, A. 2021, “Addressing Gaps in Space Weather Operations with Small Satellites.” *Space Weather*, **19**, e2020SW002566 [DOI: 10.1029/2020SW002566]
30. Plowman, J. E., & **Caspi, A.** 2020, “A fast, simple, robust algorithm for coronal temperature reconstruction.” *Astrophys. J.*, **905**, 17 [DOI: 10.3847/1538-4357/abc260]
29. Nieves-chinchilla, T., Lal, B., Robinson, R., **Caspi, A.**, Jackson, D. R., Moretto Jørgensen, T., & Spann, J. 2020, “International Coordination and Support for SmallSat-enabled Space Weather Activities.” *Space Weather*, **18**, e2020SW002568 [DOI: 10.1029/2020SW002568]
28. Schwab, B. D., Sewell, R. H. A., Woods, T. N., **Caspi, A.**, Mason, J. P., & Moore, C. 2020, “Quiescent Solar Soft X-ray Observations using Novel Dual-zone Aperture X-ray Solar Spectrometer (DAXSS).” *Astrophys. J.*, **904**, 20 [DOI: 10.3847/1538-4357/abba2a]
27. Mason, J. P., Woods, T. N., Chamberlin, P. C., Jones, A., Kohnert, R., Schwab, B., Sewell, R., **Caspi, A.**, Moore, C. S., Palo, S., Solomon, S., & Warren, H. 2020, “MinXSS-2 CubeSat Mission Overview: Improvements from the Successful MinXSS-1 Mission.” *Adv. Space Res.*, **66**, 3 [DOI: 10.1016/j.asr.2019.02.011]
26. **Caspi, A.**, Seaton, D. B., Tsang, C. C. C., DeForest, C. E., Bryans, P. DeLuca, E. E., Tomczyk, S., Burkepile, J. T., Casey, T., Collier, J., Darrow, D., Del Rosso, D., Durda, D. D., Gallagher, P. T., Golub, L., Jacyna, M., Johnson, D., Judge, P. G., Klemm, C., Laurent, G. T., Lewis, J., Mallini, C. J., Parent, T., Propp, T., Steffl, A. J., Warner, J., West, M. J., Wiseman, J., Yates, M., Zhukov, A., & the NASA WB-57F 2017 Eclipse Observing Team 2020, “A new facility for airborne solar astronomy: NASA’s WB-57 at the 2017 total solar

- eclipse.” *Astrophys. J.*, **895**, 131 [DOI: 10.3847/1538-4357/ab89a8]
25. Buie, M. W., Porter, S. B., Tamblyn, P., Terrell, D., Parker, A. H., Baratoux, D., Kaire, M., Leiva, R., Verbiscer, A. J., Zangari, A. M., Colas, F., Demba Diop, B., Samaniego, J. I., Wasserman, L. H., Benecchi, S. D., **Caspi, A.**, Gwyn, S., Kavelaars, J. J., Ocampo Uría, A. C., Rabassa, J., Skrutskie, M. F., Soto, A., Tanga, P., Young, E. F., Stern, S. A., Andersen, B. C., Arango Pérez, M. E., Arredondo, A., Alfredo Artola, R., Bâ, A., Ballet, R., Blank, T., Tidiane Bop, C., Bosh, A. S., Aarón Camino López, M., Carter, C. M., Castro-Chacón, J. H., Caycedo Desprez, A., Caycedo Guerra, N., Conard, S. J., Dauvergne, J.-L., Dean, B., Dean, M., Desmars, J., Lahat Dieng, A., Diarra Bousso Dieng, M., Diouf, O., Séraphin Dorego, G., Dunham, D. W., Dunham, J., Durantini Luca, H. A., Edwards, P., Erasmus, N., Faye, G., Faye, M., Ezequiel Ferrario, L., Ferrell, C. L., Finley, T. J., Fraser, W. C., Friedli, A. J., Galvez Serna, J., Garcia-Migani, E. A., Genade, A., Getrost, K., Gil-Hutton, R. A., Gimeno, G. N., Golub, E. J., González Murillo, G. F., Grusin, M. D., Gurovich, S., Hanna, W. H., Henn, S. M., Hinton, P. C., Hughes, P. J., Josephs, J. D., Joya, R., Kammer, J. A., Keeney, B. A., Keller, J. M., Kramer, E. A., Levine, S. E., Lisse, C. M., Lovell, A. J., Mackie, J. A., Makarchuk, S., Manzano, L. E., Sylla Mbaye, S., Mbaye, M., Melia, R. R., Moreno, F., Moss, S. K., Ndaiye, D., Ndiaye, M., Nelson, M. J., Olkin, C. B., Olsen, A. M., Ospina Moreno, V. J., Pasachoff, J. M., Pereyra, M. B., Person, M. J., Pinzón, G., Alejandro Pulver, E., Quintero, E. A., Regester, J. R., Caleb Resnick, A., Reyes-Ruiz, M., Rolfsmeier, A. D., Ruhland, T. R., Salmon, J., Santos-Sanz, P., Santucho, M. A., Sepúlveda Niño, D. K., Sickafoose, A. A., Silva, J. S., Singer, K. N., Skipper, J. N., Slivan, S. M., Smith, R. J. C., Spagnotto, J. C., Stephens, A. W., Strabala, S. D., Tamayo, F. J., Throop, H. B., Torres Cañas, A. D., Toure, L., Traore, A., Tsang, C. C. C., Turner, J. D., Vanegas, S., Venable, R., Wilson, J. C., Zuluaga, C. A., & Zuluaga, J. I. 2020, “Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations.” *Astron. J.*, **159**, 130 [DOI: 10.3847/1538-3881/ab6ced]
 24. McTiernan, J. M., **Caspi, A.**, & Warren, H.P. 2019, “The Multi-Instrument (EVE-*RHESSI*) DEM for Solar Flares and Implications for Non-Thermal Emission.” *Astrophys. J.*, **881**, 161 [DOI: 10.3847/1538-4357/ab2fcc]
 23. Moore, C. S., **Caspi, A.**, Woods, T. N., Chamberlin, P. C., Dennis, B. R., Jones, A. R., Schwartz, R. A., Mason, J. P., & Tolbert, A. K. 2018, “The Instruments and Capabilities of the *Miniature X-ray Solar Spectrometer (MinXSS)* CubeSats.” *Solar Physics*, **293**, 21 [DOI: 10.1007/s11207-018-1243-3]
 22. Mason, J. P., Baumgart, M., Rogler, B., Downs, C., Williams, M., Woods, T. N., Palo, S., Chamberlin, P. C., Solomon, S., Jones, A., Li, X., Kohnert, R., & **Caspi, A.** 2017, “*MinXSS-I* CubeSat On-Orbit Pointing and Power Performance: The First Flight of the Blue Canyon Technologies XACT 3-axis Attitude Determination and Control System.” *J. Small Sat.*, **6**, 651
 21. Marsh, A. J., Smith, D. M., Glesener, L., Hannah, I. G., Grefenstette, B. W., **Caspi, A.**, Krucker, S., Hudson, H. S., Madsen, K. K., White, S. M., Kuhar, M., Boggs, S. E., Christensen, F. E., Craig, W.W., Hailey, C. J., Harrison, F. A., Stern, D., & Zhang, W. W. 2017, “First *NuSTAR* limits on quiet Sun hard X-ray transient events.” *Astrophys. J.*, **849**, 131 [DOI: 10.3847/1538-4357/aa9122]
 20. Aschwanden, M. J., **Caspi, A.**, Cohen, C. M. S., Holman, G., Jing, J., Kretzschmar, M., Kontar, E. P., McTiernan, J. M., Mewaldt, R. A., O’Flannagain, A., Richardson, I. G., Ryan, D., Warren, H. P., & Xu, Y. 2017, “Global Energetics of Solar Flares: V. Energy Closure in

- Flares and Coronal Mass Ejections.” *Astrophys. J.*, **836**, 17 [DOI: 10.3847/1538-4357/836/1/17]
19. Woods, T. N., **Caspi, A.**, Chamberlin, P. C., Jones, A., Kohnert, R., Mason, J. P., Moore, C. S., Palo, S., Rouleau, C., Solomon, S. C., Machol, J., & Viereck, R. 2017, “New Solar Irradiance Measurements from the *Miniature X-Ray Solar Spectrometer* CubeSat.” *Astrophys. J.*, **835**, 122 [DOI: 10.3847/1538-4357/835/2/122]
 18. Aschwanden, M. J., Holman, G., O’Flannagain, A., **Caspi, A.**, McTiernan, J. M., & Kontar, E. 2016, “Global Energetics of Solar Flares: III. Nonthermal Energies.” *Astrophys. J.*, **832**, 27 [DOI: 10.3847/0004-637X/832/1/27]
 17. Grefenstette, B. W., Glesener, L., Krucker, S., Hudson, H., Hannah, I. G., Smith, D. M., Vogel, J. K., White, S., Madsen, K. K., Marsh, A. J., **Caspi, A.**, Chen, B., Shih, A., Kuhar, M., Boggs, S. E., Christensen, F. E., Craig, W. W., Forster, K., Hailey, C. J., Harrison, F. A., Miyasaka, H., Stern, D., & Zhang, W. W. 2016, “The First Focused Hard X-ray Images of the Sun with *NuSTAR*.” *Astrophys. J.*, **826**, 20 [DOI: 10.3847/0004-637X/826/1/20]
 16. Lin, C. Y., Bailey, S. M., Jones, A. R., Woodraska, D., Woods, T. N., Eparvier, F. G., **Caspi, A.**, Wieman, S. R., & Didkovsky, L. V. 2016, “Soft X-ray irradiance measured by the Solar Aspect Monitor on the *Solar Dynamics Observatory* Extreme ultraviolet Variability Experiment.” *J. Geophys. Res.: Space Phys.*, **121**, 3648 [DOI: 10.1002/2015JA021726]
 15. Mason, J. P., Woods, T. N., **Caspi, A.**, Chamberlin, P., Moore, C., Jones, A., Kohnert, R., Li, X., Palo, S., & Solomon, S. 2016, “*Miniature X-ray Solar Spectrometer (MinXSS)* – A Science-Oriented, University 3U CubeSat.” *J. Spacecraft Rockets*, **53**, 328 [DOI: 10.2514/1.A33351]
 14. Hannah, I. G., Grefenstette, B. W., Smith, D. M., Glesener, L., Krucker, S., Hudson, H. S., Madsen, K. K., Marsh, A., White, S. M., **Caspi, A.**, Shih, A. Y., Harrison, F. A., Stern, D., Boggs, S. E., Christensen, F. E., Craig, W. W., Hailey, C. J., & Zhang, W. W. 2016, “The first X-ray imaging spectroscopy of quiescent solar active regions with *NuSTAR*.” *Astrophys. J. Lett.*, **820**, L14 [DOI: 10.3847/2041-8205/820/1/L14]
 13. Doschek, G. A., Warren, H. P., Dennis, B. R., Reep, J. W., & **Caspi, A.** 2015, “Flare Footpoint Regions and a Surge Observed by the *Hinode*/EUV Imaging Spectrometer (EIS), *RHESSI*, and *SDO*/AIA.” *Astrophys. J.*, **813**, 32 [DOI: 10.1088/0004-637X/813/1/32]
 12. Aschwanden, M. J., Boerner, P., **Caspi, A.**, McTiernan, J. M., Ryan, D., & Warren, H. P. 2015, “Benchmark Test of Differential Emission Measure Codes and Multi-Thermal Energies.” *Solar Phys.*, **290**, 2733 [DOI: 10.1007/s11207-015-0790-0]
 11. **Caspi, A.**, Shih, A. Y., McTiernan, J. M., & Krucker, S. 2015, “Hard X-ray imaging of individual spectral components in solar flares.” *Astrophys. J. Lett.*, **811**, L1 [DOI: 10.1088/2041-8205/811/1/L1]
 10. Aschwanden, M. J., Boerner, P., Ryan, D., **Caspi, A.**, McTiernan, J. M., and Warren, H. P. 2015, “Global energetics of solar flares: II. Thermal Energies.” *Astrophys. J.*, **802**, 53 [DOI: 10.1088/0004-637X/802/1/53]
 9. **Caspi, A.**, Woods, T. N., & Warren, H. P. 2015, “New observations of the solar 0.5–5 keV soft x-ray spectrum.” *Astrophys. J. Lett.*, **802**, L2 [DOI: 10.1088/2041-8205/802/1/L2]
 8. Mason, J. P., Woods, T. N., **Caspi, A.**, Thompson, B. J., & Hock, R. A. 2014, “Mechanisms and Observations of Coronal Dimming for the 2010 August 7 Event.” *Astrophys. J.*, **789**, 61

[DOI: 10.1088/0004-637X/789/1/61]

7. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2014, “Constraining solar flare differential emission measures with EVE and *RHESSI*.” *Astrophys. J. Lett.*, **788**, L31 [DOI: 10.1088/2041-8205/788/2/L31]
6. **Caspi, A.**, Krucker, S., & Lin, R. P. 2014, “Statistical properties of super-hot solar flares.” *Astrophys. J.*, **781**, 43 [DOI: 10.1088/0004-637X/781/1/43]
5. Liu, W.-J., Qiu, J., Longcope, D. W., & **Caspi, A.** 2012, "Determining Heating Rates in Reconnection Formed Flare Loops of the M8.0 Flare on 2005 May 13." *Astrophys. J.*, **770**, 111 [DOI: 10.1088/0004-637X/770/2/111]
4. Trottet, G., Raulin, J.-P., Giménez de Casto, G., Lüthi, T., **Caspi, A.**, Mandrini, C. H., Luoni, M. L., & Kaufmann, P. 2011 “Origin of the submillimeter radio emission during the time-extended phase of a solar flare.” *Solar Phys.*, **273**, 339 [DOI: 10.1007/s11207-011-9875-6]
3. Fletcher, L., Dennis, B. R., Hudson, H. S., Krucker, S., Phillips, K., Veronig, A., Battaglia, M., Bone, L., **Caspi, A.**, Chen, Q., Gallagher, P., Grigis, P. T., Ji, H., Liu, W., Milligan, R. O., & Temmer, M. 2011, “An Observational Overview of Solar Flares.” *Space Sci. Rev.*, **159**, 19 [DOI: 10.1007/s11214-010-9701-8]
2. **Caspi, A.**, & Lin, R. P. 2010, “*RHESSI* line and continuum observations of super-hot flare plasma.” *Astrophys. J. Lett.*, **725**, L161 [DOI: 10.1088/2041-8205/725/2/L161]
1. **Caspi, A.** 2010, “Super-hot ($T > 30$ MK) thermal plasma in solar flares.” *Ph.D. dissertation*, University of California, Berkeley (advisor: R. P. Lin) [arXiv: 1105.1889]

PROPOSALS FUNDED or PENDING:

33. **Caspi, A. (PI)**, Seaton, D. B. (Co-I), West, M. J. (Co-I), Kovac, S. A. (Co-I), DeForest, C. E. (Co-I), Bryans, P. (Co-I), Downs, C. (Co-I), Scott, C. J. (Co-I), DeLuca, E. (Collab.), Samra, J. (Collab.), & Tomczyk, S. (Collab.) 2022, “Chasing the Eclipse II: Augmented Airborne Eclipse Observations in 2024 and 2026 with NASA’s WB-57s.” *NASA Heliophysics Low Cost Access to Space (selected: \$1,160,143; 4 yrs)*
32. Glesener, L. (PI), **Caspi, A. (Co-I)**, Gebre-Egziabher, D. (Co-I), Sample, J. G. (Co-I), Smith, D. M. (Co-I), Knuth, T. (Collab.), Saint-Hilaire, P. (Collab.), & Setterberg, W. (Grad.) 2022, “Hard X-ray Spectrometer for Solar Flares: A Balloon Add-On Experiment.” *NASA Heliophysics Low Cost Access to Space (80NSSC24M0030: \$1,307,664; 2.5 yrs)*
31. **Caspi, A. (PI)**, Kovac, S. A. (Co-PI), Seaton, D. B. (Co-PI), Bryans, P. (Co-PI), Zietlow, D. W. (Sr.P), Martínez Pillet, V. (Co-PI), Burkepile, J. (Collab.), DeForest, C. E. (Collab.), Elmore, D. (Collab.), Haacker, R. (Collab.), Jackiewicz, J. (Collab.), Maldonado, J. (Collab.), Ursache, A. (Collab.), & Yanamandra-Fisher, P. (Collab.) 2022, “Citizen CATE Next-Generation 2024 Total Solar Eclipse Experiment, Phase 2.” *NSF 22–624 (Astronomy and Astrophysics Research Grants) (2308305 + 2308306: \$989,639; 18 mo.)*
30. **Caspi, A. (PI)**, Seaton, D. B. (Co-I), West, M. J. (Co-I), Kovac, S. A. (Co-I), Bryans, P. (Co-I), Scott, C. J. (Co-I), DeForest, C. E. (Collab.), DeLuca, E. (Collab.), Downs, C. (Collab.), Samra, J. (Collab.), & Tomczyk, S. (Collab.) 2022, “Chasing the Eclipse II: Augmented Airborne Eclipse Observations in 2024 with NASA’s WB-57s.” *NASA Interdisciplinary Science for Eclipse (80NSSC23K1323: \$400,000; 1 yr)*
29. **Caspi, A. (PI)**, Kovac, S. A. (Co-I), Seaton, D. B. (Co-I), Bryans, P. (Co-I), Yanamandra-Fisher, P. (Co-I), Burkepile, J. (Collab.), DeForest, C. E. (Collab.), Elmore, D. (Collab.),

- Jackiewicz, J. (Collab.), & Reardon, K. 2022, “Coronal Science with Citizen CATE Next-Generation Distributed Eclipse Observations.” NASA *Heliophysics Citizen Science Investigations* (**80NSSC23K0946**: \$620,564; 3 yrs)
28. **Caspi, A. (PI)**, Kovac, S. A. (Co-PI), Seaton, D. B. (Co-PI), Bryans, P. (Co-PI), Zietlow, D. W. (Co-PI), Yanamandra-Fisher, P. (Sr.P), Burkepile, J. (Collab.), DeForest, C. E. (Collab.), Elmore, D. (Collab.), Haacker, R. (Collab.), Jackiewicz, J. (Collab.), Lazrus, H. (Collab.), Maldonado, J. (Collab.), & Ursache, A. (Collab.) 2022, “Citizen CATE at the 2024 Total Solar Eclipse.” NSF 22–1 Unsolicited (*AST Special Projects*) (**2231658**: \$330,367; 9 mo.)
27. Seaton, D. B. (PI), **Caspi, A. (Co-I)**, Downs, C. (Co-I), West, M. J. (Co-I), & Mason, J. P. (Collab.) 2021, “Probing the Origins of Outflow in the Middle Corona.” NASA *Heliophysics Guest Investigators* (**80NSSC22K0523**: \$523,307; 3 yrs)
26. **Caspi, A. (PI)**, Seaton, D. B. (Co-I), West, M. J. (Co-I), & Hughes, J. M. (Co-I) 2021, “3D Coronal Reconstruction using Multiple Viewpoints.” SwRI *Internal Research & Development (Applied Research, Presidential Discretion)* (**15.R6225**: \$427,401; 1 yr)
25. Goodrich, K. (PI), **Caspi, A. (Co-I)**, Cohen, I. (Co-I), Turner, D. (Co-I), Wilson, L. (Co-I), & Schwartz, S. (Collab.) 2021, “Multi-point Assessment of the Kinematics of Shocks (MAKOS).” NASA *Heliophysics Mission Concept Studies* (**80NSSC22K0111**: \$389,453; 1 yr)
24. Martínez Oliveros, J. C. (PI), **Caspi, A. (Co-I)**, Christe, S. D. (Co-I), Hayes, L. (Co-I), Krucker, S. (Co-I), Limousin, O. (Co-I), Meuris, A. (Co-I), Peretz, E. (Co-I), & Saint-Hilaire, P. (Co-I) 2021, “solar Polarization and Directivity X-ray Experiment (PADRE).” NASA *Heliophysics Flight Opportunities for Research & Tech.* (**80NSSC22M0098**: \$9.4M; 5 yrs)
23. **Caspi, A. (PI)**, Cheung, M. C. M. (Co-I), DeForest, C. E. (Co-I), Gburek, S. (Co-I), Klimchuk, J. (Co-I), Laurent, G. T. (Co-I), Mason, J. P. (Co-I), Palo, S. E. (Co-I), Schwartz, R. A. (Co-I), Seaton, D. B. (Co-I), Shih, A. Y. (Co-I), Stęślicki, M. (Co-I), Sylwester, J. (Co-I), Warren, H. P. (Co-I), Winebarger, A. (Co-I), Woods, T. N. (Co-I), Kowalinski, M. (Collab.), Mrozek, T. (Collab.), Schattenburg, M. (Collab.), Bavolek, B. (PM), & Klein, V. (PSE) 2020, “CubIXSS: The CubeSat Imaging X-ray Solar Spectrometer.” NASA *Heliophysics Flight Opportunities for Research & Tech.* [Phases B-F] (**80NSSC22M0111**: \$7.1M; 4 yrs)
22. **Caspi, A. (PI)**, DeForest, C. E. (Co-I), Elmore, D. (Co-I), Jackiewicz, J. (Co-I), McAteer, R. T. J. (Co-I), Seaton, D. B. (Co-I), Yanamandra-Fisher, P. (Co-I), Martínez Pillet, V. (Collab.), & Kovac, S. (Grad) 2020, “Planning Citizen CATE for the 2024 Total Solar Eclipse.” NASA *Citizen Science Seed Funding Program* (**80NSSC21K0798**: \$118,181; 1 yr)
21. **Caspi, A. (PI)** 2020, “Helio2050 Workshop: Support for Science Organizing Committee Membership.” NASA *Topical Workshops, Symposia, and Conferences* (**80NSSC21K0788**: \$32,999; 1 yr)
20. Plowman, J. (PI), **Caspi, A. (Co-I)**, Barnes, W. (Collab.), & Cheung, M. C. M. (Collab.) 2020, “EMToolkit: Computing and Visualizing Differential Emission Measures with a Standardized Framework.” NASA *Heliophysics Data Environment Enhancements* (**80NSSC21K0678**: \$74,882; 1 yr)
19. **Caspi, A. (PI)**, Cheung, M. C. M. (Co-I), DeForest, C. E. (Co-I), Gburek, S. (Co-I), Klimchuk, J. (Co-I), Laurent, G. T. (Co-I), Mason, J. P. (Co-I), Palo, S. E. (Co-I), Schwartz, R. A. (Co-I), Seaton, D. B. (Co-I), Shih, A. Y. (Co-I), Stęślicki, M. (Co-I), Sylwester, J. (Co-I), Warren, H. P. (Co-I), Winebarger, A. (Co-I), Woods, T. N. (Co-I), Kowalinski, M. (Collab.), Mrozek, T. (Collab.), & Schattenburg, M. (Collab.) 2019, “CubIXSS: The CubeSat Imaging

- X-ray Solar Spectrometer.” NASA *Heliophysics Flight Opportunities for Research & Technology* (**80NSSC20K1754**: \$40K Phase A; 6 months)
18. Glesener, L. (PI), Gebre-Egziabher, D. (Co-PI), Sample, J. (Co-PI), & **Caspi, A. (Co-PI)** 2018, “CubeSat: High-Cadence Measurement of Solar Flare Hard X-rays.” NSF *18-553 (CubeSat-based Science Missions for Geospace Research)* (**1840944 + 1841006 + 1841039**: \$1,199,996; 4 yrs)
 17. **Caspi, A. (PI)**, Warren, H. P. (Co-I), McTiernan, J. M. (Co-I), & Laming, J. M. (Co-I) 2018, “Using Abundance Variations to Probe Coronal Heating Processes.” NASA *Heliophysics Guest Investigators* (**80NSSC19K0287**: \$523,014; 3 yrs)
 16. **Caspi, A. (PI)**, & Shoffner, M. (Co-I) 2018, “Maturation of Small X-ray Spectrometers for Future NASA Explorer-Class Missions.” SwRI *Internal Research & Development (Developmental Research)* (**15.R8842**: \$262,039; 1 yr)
 15. Christe, S. D. (PI), Shih, A. Y. (DPI), Krucker, S. (Co-I), Glesener, L. (Co-I), Saint-Hilaire, P. (Co-I), Gubarev, M. (Co-I), **Caspi, A. (Co-I)**, Woods, T. N. (Co-I), Gburek, S. (Co-I), Allred, J. C. (Co-I), Battaglia, M. (Co-I), Drake, J. (Co-I), Goetz, K. (Co-I), Grefenstette, B. (Co-I), Hannah, I. G. (Co-I), Holman, G. (Co-I), Hudson, H. S. (Co-I), Inglis, A. (Co-I), Ireland, J. (Co-I), Ishikawa, S-n. (Co-I), Klimchuk, J. (Co-I), Kontar, E. (Co-I), Massone, A. M. (Co-I), Piana, M. (Co-I), Ramsey, B. (Co-I), Schwartz, R. (Co-I), Stęślicki, M. (Co-I), Turin, P. (Co-I), White, S. (Co-I), Chen, B. (Collab.), Gary, D. (Collab.), Kowalski, A. (Collab.), Warmuth, A. (Collab.), Veronig, A. (Collab.), Vilmer, N. (Collab.), & Manthripragada, S. (PM) 2016, “The Focusing Optics X-ray Solar Imager (FOXSI).” NASA *2016 Heliophysics Small Explorer (Phase A)*: \$1.25M; 22 mos)
 14. Muñoz, A. (PI), & **Caspi, A. (Co-I)** 2017, “Using Machine Learning to Forecast the Solar Extreme Ultra-Violet Spectrum.” SwRI *Internal Research & Development (QuickLook)* (**15.R8774**: \$49,914; 4 mos)
 13. Tsang, C. (PI), **Caspi, A. (Co-I)**, & DeForest, C. (Co-I) 2017, “The Analysis of Unique Small Aperture Data for Airborne Astronomy.” SwRI *Internal Research & Development (QuickLook)* (**15.R8767**: \$49,866; 4 mos)
 12. Hassler, D. (PI), **Caspi, A. (Co-I)**, Laurent, G. (Co-I), & Graham, R. (Co-I) 2017, “Capability Development and Demonstration for Sounding Rocket Research.” SwRI *Internal Research & Development (QuickLook)* (**15.R8763**: \$50,000; 4 mos)
 11. Plowman, J. E. (PI), **Caspi, A. (Co-I)**, DeForest, C. E. (Co-I), Bradshaw, S. (Co-I), & Klimchuk, J. (Co-I) 2016, “Understanding the Distribution of Small-Scale Impulsive Coronal Heating Events.” NASA *Heliophysics Supporting Res.* (**80NSSC17K0598**: \$811,083; 3 yrs)
 10. **Caspi, A. (PI)**, Tsang, C. (Co-I), DeForest, C. E. (Co-I), Seaton, D. (Co-I), Bryans, P. (Co-I), Steffl, A. (Collab.), Durda, D. (Collab.), Judge, P. (Collab.), Tomczyk, S. (Collab.), Burkepille, J. (Collab.), DeLuca, E. (Collab.), Golub, L. (Collab.), Zhukov, A. (Collab.), West, M. (Collab.), & Gallagher, P. (Collab.) 2016, “Chasing the 2017 Eclipse: Interdisciplinary Airborne Science with NASA’s WB-57.” NASA *Interdisciplinary Science for Eclipse 2017* (**NNX17AH38G**: \$200,777; 2 yrs)
 9. Woods, T. N. (PI), **Caspi, A. (Co-I)**, Chamberlin, P. C. (Co-I), Jones, A. R. (Co-I), Kohnert, R. (Co-I), Mason, J. P. (Co-I), Palo, S. E. (Co-I), Solomon, S. (Co-I), & Warren, H. P. (Co-I) 2016, “Solar Cycle Studies for the Miniature X-ray Solar Spectrometer (MinXSS) CubeSat Missions.” NASA *Heliophysics Technology & Instrument Development for Science*

(NNX17AI71G: \$2.2M; 5 yrs)

8. **Caspi, A. (PI)**, & DeForest, C. (Co-I) 2015, “Demonstration Flight of New Technology for Solar Hard X-ray Spectroscopy for Future CubeSat Missions.” *SwRI Internal Research & Development (Applied Research)* (**15.R8565**: \$278,244; 1 yr)
7. **Caspi, A. (PI)** 2015, “Laboratory Calibration and Environmental Testing of New Hard X-ray Spectrometer for Future CubeSat Missions.” *SwRI Internal Research & Development (QuickLook)* (**15.R8558**: \$49,860; 4 mos)
6. Thompson, B. J. (PI), **Caspi, A. (Co-I)**, Krista, L. D. (Co-I), Mason, J. P (Co-I), Reinard, A. A. (Co-I), & Webb, D. F. (Co-I) 2014, “An Investigation of Coronal Dimming and their relationship to CMEs.” *NASA Heliophysics Supporting Res.* (**NNX15AQ68G**: \$533,075; 3 yrs)
5. Woods, T. (PI), **Caspi, A. (Co-I)**, Chamberlin, P. (Co-I), Jones, A. (Co-I), Kohnert, R. (Co-I), Li, X. (Co-I), Palo, S. (Co-I), & Solomon, S. (Co-I) 2013, “Miniature X-ray Solar Spectrometer (MinXSS) CubeSat Mission.” *NASA Heliophysics Technology and Instrument Development for Science (Low Cost Access to Space)* (**NNX14AN84G**: \$1,050,362; 3 yrs)
4. Randall, C. (PI), Woods, T. (Co-I), **Caspi, A. (Co-I)**, Harvey, V. L. (Co-I), Kinnison, D. (Co-I), Liu, H.-L. (Co-I), Marsh, D. (Co-I), Qian, L. (Co-I), Solomon, S. (Co-I), Coster, A. (Co-I), Jackman, C. (Co-I), Funke, B. (Collab.), Langematz, U. (Collab.), Matthes, K. (Collab.), Schmidt, H. (Collab.), Seppala, A. (Collab.), Sinnhuber, M. (Collab.), Verronen, P. (Collab.), 2013, “Response of the Atmosphere to Impulsive Solar Events (RAISE).” *NASA Heliophysics Living With a Star Science* (**NNX14AH54G**: \$2,281,126; 4 yrs)
3. Qiu, J. (PI), Longcope, D. (Co-I), **Caspi, A. (Co-I)** 2013, “Energetics of flare heating from magnetic reconnection.” *NASA Heliophysics Guest Investigators* (**NNX14AC06G**: \$382,072; 3 yrs)
2. **Caspi, A. (PI)**, McTiernan, J. (Co-I), & Warren, H. (Collab.) 2011, “Determining Temperature Distributions in Solar Flares with RHESSI and EVE.” *NASA Heliophysics Guest Investigators* (**NNX12AH48G + NNX15AK26G**: \$250,563; 3 yrs)
1. McTiernan, J. (PI), & **Caspi, A.** (Grad) 2007, “Thermal Soft X-ray Spectroscopy with RHESSI.” *NASA Heliophysics Guest Investigators* (**NNX08AJ18G**: \$215,101; 3 yrs)

AWARDS and HONORS:

- 2016, Aug. AIAA Small Satellite Mission of the Year, *MinXSS* Team
- 2016, Jul. Antarctica Service Medal
- 2016, Mar. NASA R.H.G. Exceptional Achievement for Science Award, *SDO* Team
- 2014, Jul. NASA Group Achievement Award, *GOES-R* EXIS Instrument Dev. Team
- 2013, Aug. NASA Group Achievement Award, *RHESSI* Science and Data Analysis Team
- 2013, May *GOES-R* Project Significant Achievement Award, EXIS Team
- 2013, Mar. Metcalf Lecturer/Fellow (LWS *SDO* Workshop, Cambridge, MD)
- 2012, Dec. NASA LWS Workshop Travel Award (*RHESSI/SDO* Workshop, Petaluma, CA)
- 2012, Aug. NASA Group Achievement Award, *SDO* Science Investigation Team
- 2007, Mar. Outstanding Student Paper, AGU 2006 Fall Meeting (Abstract #SH43B-1528)
- 2006, Jun. AAS/SPD Summer School Fellow
- 2004, Feb. Outstanding Student Paper, AGU 2003 Fall Meeting (Abstract #SH22A-0170)
- 2003 *RHESSI* Project Recognition Award, Outstanding Data Analysis

2003, *Jun.* AAS/SPD Studentship Award
 2001–2002 Graduate Research Fellow, Spaces Sciences Lab, Univ. of California, Berkeley
 2000–2001 Exel Scholar, Univ. of Maryland, College Park
 2000 Who’s Who Among Students in American Universities and Colleges
 1999, *summer* Senior Summer Scholar, Univ. of Maryland, College Park
 1996–2000 Banneker/Key Scholar, Univ. of Maryland, College Park
 1996–2000 Maryland Distinguished Scholar

Honor Society Memberships: Phi Beta Kappa, Sigma Pi Sigma, Omicron Delta Kappa, Phi Eta Sigma, Mortar Board, Pi Mu Epsilon, Phi Kappa Phi, Golden Key, Alpha Lambda Delta

INVITED TALKS, SEMINARS, and COLLOQUIA:

- “Citizen CATE 2024: Distributed observations of the 8 April 2024 total solar eclipse with community volunteers.” C*Sci 2023, Panel 4: Rewarding Volunteers (Tempe, AZ; *Jun. 2023*)
- “The Sun and its connections to us: A ~~crash-course~~ brief overview.” Boulder Solar REU Program, Boot Camp (Boulder, CO; *May 2023*)
- “The COMPLETE Concept for Coronal Energy Storage & Release.” ISTPNNext Workshop, lightning talks (Laurel, MD; *May 2023*)
- “CubIXSS: The CubeSat Imaging X-ray Solar Spectrometer.” ISTPNNext Workshop, lightning talks (Laurel, MD; *May 2023*)
- “Coordinated Extended Observations of TSE 2024 with Citizen CATE Next Generation Ground Network and NASA WB-57 Airborne Telescopes.” AMS 2023 (Denver, CO; *Jan 2023*)
- “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” SPHERE Workshop, lightning talk (Boulder, CO; *Jul. 2022*)
- “Solar Spectroscopy in X-rays and EUV, and Future Prospects.” Particle Acceleration in Solar Flares and the Plasma Universe – Deciphering its features under magnetic reconnection (Kashiwa, Japan [virtual]; *Nov. 2021*)
- “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” Southwest Research Institute, Boulder – Planetary Science Directorate lunch seminar (*Nov. 2021*)
- “New CubeSats for high-energy solar and astrophysics.” Univ. of Tokyo, Kavli IPMU, APEC Seminar (Kashiwa, Japan; *Jan. 2020*)
- “X-ray and EUV diagnostics of particle acceleration and plasma heating processes in solar flares.” Solar Focus Group meeting (Boulder, CO; *Dec. 2019*)
- “New CubeSats for X-ray spectroscopy from solar flares.” Progress on Spectroscopy and Imaging III (Wrocław, Poland; *Nov. 2019*)
- “Recent progress in temperature distribution determinations in solar flares and active regions using spectroscopy and imaging.” Progress on Spectroscopy and Imaging III (Wrocław, Poland; *Nov. 2019*)
- “Solar Studies from Space to Sea Level: Telescopes at All Altitudes.” Southwest Research Institute, Boulder – Planetary Science Directorate 25th Anniversary Symposium (*Sep. 2019*)
- “Solar coronal science from ground to space: coronal observations with CubeSats & high-altitude aircraft.” Presented at:
- Jet Propulsion Laboratory – Astrophysics Luncheon Seminar (*Nov. 2018*)

- Jet Propulsion Laboratory – Space Physics Journal Club (*Nov. 2018*)
- “Chasing the 2017 total solar eclipse: coronal science from NASA’s WB-57F high-altitude research aircraft.” IsraDynamics 2018 (Ein Bokek, Israel; *Apr. 2018*)
- “Diagnostics of thermal processes in the solar corona from CubeSats: spectrally resolved measurements from MinXSS and CubIXSS.” IsraDynamics 2018 (Ein Bokek, Israel; *Apr. 2018*)
- “Coronal science from 50,000 feet: Chasing the 2017 total solar eclipse with NASA’s WB-57F high-altitude research aircraft.” Boulder Solar Day 2018 (Boulder, CO; *Mar. 2018*)
- “Solar Science from Air and Space: Coronal Observations with Cubesats & High-Altitude Aircraft.” Presented at:
 - JAXA Institute of Space & Aeronautical Science – Hinode seminar (*Feb. 2018*)
 - National Astronomical Observatory of Japan – Solar & Space Plasma seminar (*Feb. 2018*)
- “Science at 50,000 feet: Chasing the 2017 total solar eclipse with NASA’s WB-57s.” Southwest Research Institute, Boulder – Planetary Science Directorate lunch seminar (*Nov. 2017*)
- “NASA WB-57 Airborne Observations of the 2017 Total Solar Eclipse.” National Solar Observatory – Solar Focus Group meeting (Boulder, CO; *Nov. 2017*)
- “NASA Antarctica: Exploration and science at the ends of the Earth.” Denver ComicCon 2017 (Denver, CO; *Jul. 2017*)
- “Recent Results from the MinXSS-1 CubeSat (and outlook for MinXSS-2).” Boulder Solar Day 2017 (Boulder, CO; *Apr. 2017*)
- “State of the Art: MinXSS CubeSat Performance ... and CubIXSS future needs.” KISS Workshop on Optical Communication on SmallSats: Enabling the Next Era in Space Science – Part 2 (Pasadena, CA; *Feb. 2017*)
- “Some Like it Hot: plasma heating & impulsive energy release in the solar corona.” Presented at:
 - Southwest Research Institute, Boulder – Planetary Science Directorate colloq. (*Aug. 2016*)
 - Boston University – Astronomy Dept., Space Physics seminar (*Mar. 2016*)
- “New Instruments for Spectrally-Resolved Solar Soft X-ray Observations from CubeSats (and Larger Missions).” Hinode 9th workshop (Belfast, N. Ireland; *Sep. 2015*)
- “Solar X-ray CubeSats.” Southwest Research Institute, Boulder – Planetary Science Directorate lunch seminar (*May 2015*)
- “Measuring Solar Soft X-ray Emission and the Coronal Temperature Distribution.” Boulder Solar Day 2015 (Boulder, CO; *Mar. 2015*)
- “New CubeSats for solar X-ray observations: MinXSS & CubIXSS.” NASA Ames Research Center – Heliophysics Modeling & Simulation Group seminar (*Mar. 2015*)
- “Thermal processes in the solar corona.” Presented at:
 - Lockheed Martin Corp. – Solar and Astrophysics Laboratory seminar (*Mar. 2015*)
 - NASA Ames Research Ctr. – Heliophysics Modeling & Simulation Group sem. (*Mar. 2015*)
 - Harvard-Smithsonian Ctr. for Astrophysics – Solar & Stellar X-ray Group sem. (*Feb. 2015*)
 - Boston University – Astronomy Dept., Space Physics seminar (*Feb. 2015*)
 - Southwest Research Institute, San Antonio – Space Science & Eng. Div. colloq. (*Nov. 2014*)
 - Southwest Research Institute, Boulder – Planetary Science Directorate colloq. (*Jul. 2014*)
 - Univ. of Colorado, Boulder – Lab. for Atmospheric and Space Physics colloq. (*Mar. 2014*)

- Tel Aviv University, Israel – Geophysics and Planetary Sciences Dept. seminar (*Mar. 2014*)
- “CubeSats: overview and enabling technologies for solar observations.” RHESSI 13th Workshop (Windisch, Switzerland; *Apr. 2014*)
- “Coronal plasma heating in the flaring and quiescent sun.” Huntsville Workshop 2014 (Orlando, FL; *Mar. 2014*)
- “Super-hot ($T > 30$ MK) thermal plasma in solar flares.” West Virginia Univ., Morgantown – Physics Dept. colloquium (*Apr. 2013*)
- “Some Like it (super)Hot.” Univ. of California, Berkeley – Space Sciences Lab.; BobFest, a one-day colloquium celebrating the science of Bob Lin and RHESSI (*Feb. 2012*)
- “Super-hot ($T > 30$ MK) thermal plasma in solar flares.” Presented at:
 - Univ. of New Hampshire, Durham – Physics Dept. and Institute for the Study of Earth, Oceans, and Space; Space Physics Group seminar (*Apr. 2011*)
 - Harvard-Smithsonian Ctr. for Astrophysics – Solar & Stellar X-ray Group sem. (*Apr. 2011*)
 - Univ. of Colorado, Boulder – Laboratory for Atmospheric and Space Physics; Solar Influences Group seminar (*Mar. 2011*)
 - Nat’l. Center for Atmospheric Research – High Altitude Observatory seminar (*Mar. 2011*)
 - Lockheed Martin Corp. – Solar and Astrophysics Laboratory seminar (*Feb. 2011*)
 - Montana State Univ., Bozeman – Physics Dept.; Solar Physics Group seminar (*Nov. 2010*)
 - Jet Propulsion Laboratory – Science Division; Astrophysics and Space Sciences Section colloquium (*Oct. 2010*)
 - NASA Marshall Space Flight Center and Univ. of Alabama, Huntsville Center for Space Plasma and Aeronomic Research – Solar Physics Group seminar (*Sep. 2010*)
 - Univ. of California, Berkeley – Physics Dept.; 290B (Space Physics) Seminar (*Aug. 2010*)
 - NASA Goddard Space Flight Center – Heliophysics Division colloquium (*Aug. 2010*)
 - Johns Hopkins Univ. Applied Physics Lab. – Space Dept.; Heliophysics colloq. (*Aug. 2010*)
 - Naval Research Laboratory – Space Science Division colloquium (*Aug. 2010*)
- “23 July 2002: Calibration and results – two thermal components.” NASA Goddard Space Flight Center – Heliophysics Science Division; Solar Physics Group seminar (*Dec. 2009*)
- “Pitfalls and potential of RHESSI spectroscopy below ~ 20 keV.” NASA Goddard Space Flight Center – Heliophysics Science Division; Solar Physics Group seminar (*Feb. 2009*)
- “Super-hot thermal plasmas in solar flares.” Univ. of California, Berkeley – Physics Dept.; 290B (Space Physics) Seminar (*Apr. 2007*)
- “Measuring the temperature of hot solar flare plasma with RHESSI.” Univ. of California, Berkeley – Physics Dept.; 290B (Space Physics) Seminar (*Apr. 2006*)
- “Pre-impulsive hard X-ray emission from coronal sources.” NASA Goddard Space Flight Center – Heliophysics Science Division; Solar Physics Group seminar (*Dec. 2005*)
- “Analyzing high-temperature solar flare plasmas with RHESSI.” Univ. of California, Berkeley – Physics Dept.; 290B (Space Physics) Seminar (*May 2004*)

NON-REFEREED PUBLICATIONS and TECHNICAL DOCUMENTS:

39. Patel, R., Seaton, D. B., **Caspi, A.**, Kovac, S. A., Davis, S. J., Carini, J. P., Gardner, C. H., Gosain, S., Klein, V., Laatsch, S. A., Reiff, P. H., Saini, N., Weir, R., Zietlow, D. W.,

- Elmore, D. F., Ursache, A. E., DeForest, C. E., West, M. J., Bruenjes, F., Winter, J., & the Citizen CATE 2024 Team 2023, “A Chromatic Treatment of Linear Polarization in the Solar Corona at the 2023 Total Solar Eclipse.” *Research Notes of the American Astronomical Society*, 7, 241 [DOI:10.3847/2515-5172/ad0b0d]
38. Allred, J. C., Kerr, G. S., Alaoui, M., Buitrago-Casas, J. C., **Caspi, A.**, Chen, B., Chen, T. Y., Glesener, L., Guidoni, S. E., Guo, F., Karpen, J. T., Musset, S., Reeves, K. K., & Shih, A. Y. 2022, “Next-Generation Comprehensive Data-Driven Models of Solar Eruptive Events.” White paper for the *Heliophysics Decadal Survey 2024–2033*.
 37. **Caspi, A.**, Seaton, D. B., Casini, R., Downs, C., Gibson, S. E., Gilbert, H., Glesener, L., Guidoni, S., Hughes, J. M., McKenzie, D., Plowman, J., Reeves, K. K., Saint-Hilaire, P., Shih, A. Y., & West, M. J. 2022, “COMPLETE: A flagship mission for complete understanding of 3D coronal magnetic energy release.” White paper for the *Heliophysics Decadal Survey 2024–2033*
 36. **Caspi, A.**, Seaton, D. B., Casini, R., Downs, C., Gibson, S. E., Gilbert, H., Glesener, L., Guidoni, S., Hughes, J. M., McKenzie, D., Plowman, J., Reeves, K. K., Saint-Hilaire, P., Shih, A. Y., & West, M. J. 2022, “Magnetic Energy Powers the Corona: How We Can Understand its 3D Storage & Release.” White paper for the *Heliophysics Decadal Survey 2024–2033*
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289. Suttar, R., Glesener, L., Gebre Egzhiaber, D., *et al.* 2023, “The IMPulsive Phase Rapid Energetic Solar Spectrometer CubeSat.” *AAS/SPD 54th Meeting*, Abstract #106.37
288. Woods, T. N., Schwab, B., Sewell, R., *et al.* 2023, “Overview of Solar Soft X-ray Irradiance (SXR) Measurements from the Third Generation Miniature X-Ray Solar Spectrometer (MinXSS).” *AAS/SPD 54th Meeting*, Abstract #207.06
287. Kolinski, D., DeForest, C. E., Gibson, S., *et al.* 2023, “Polarimeter to UNify the Corona and Heliosphere.” *SHINE 2023 Workshop* (Stowe, VT; Aug. 2023)
286. Shih, A. Y., **Caspi, A.**, Seaton, D. B., *et al.* 2023, “The COMPLETE concept for coronal energy storage and release.” *SHINE 2023 Workshop* (Stowe, VT; Aug. 2023)
285. **Caspi, A.**, DeForest, C. E., Laurent, G. T., *et al.* 2023, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *SDO/EVE Science Team Meeting* (Boulder, CO; Jul. 2023)
284. **Caspi, A.**, DeForest, C. E., Laurent, G. T., *et al.* 2023, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *SPHERE 2023 Workshop* (College Park, MD; Jun. 2023)
283. Barnes, W., Shih, A. Y., Parker, J., **Caspi, A.**, & Athiray, P. S. 2023, “Constraining Very Hot Active Region Plasma with the Multi-Order X-ray Spectral Imager.” *SPHERE 2023 Workshop* (College Park, MD; Jun. 2023)
282. Martínez Oliveros, J. C., Christe, S., Saint-Hilaire, P., **Caspi, A.**, Krucker, S., Hayes, L., Limousin, O., & Meuris, A. 2023, “The solar Polarization and Directivity X-Ray Experiment: PADRE.” *SPHERE 2023 Workshop* (College Park, MD; Jun. 2023)
281. **Caspi, A.**, Bryans, P., DeForest, C., Kovac, S., Seaton, D. B., Yanamandra-Fisher, P., Zietlow, D., and the Citizen CATE 2024 Team 2023, “Citizen CATE 2024: Distributed Observations of the 8 April 2024 Total Solar Eclipse with Community Volunteers.” *AAS Eclipse Planning Workshop* (Albuquerque, NM; Jun. 2023)
280. **Caspi, A.**, Bryans, P., DeForest, C., Kovac, S., Seaton, D. B., Yanamandra-Fisher, P., Zietlow, D., and the Citizen CATE 2024 Team 2023, “Citizen CATE 2024: Distributed Observations of the 8 April 2024 Total Solar Eclipse with Community Volunteers.” *C*Sci 2023* (Tempe, AZ) [invited]

279. **Caspi, A.**, Seaton, D. B., & the COMPLETE Team 2023, “The COMPLETE Concept for Coronal Energy Storage & Release.” *ISTPNext Workshop* lightning talks (Laurel, MD) [invited]
278. **Caspi, A.**, & the CubIXSS Team 2023, “CubIXSS: The CubeSat Imaging X-ray Solar Spectrometer.” *ISTPNext Workshop* lightning talks (Laurel, MD) [invited]
277. **Caspi, A.**, Bryans, P., DeForest, C. E., Downs, C., Kovac, S., Raftery, C. L., Seaton, D. B., & West, M. J. 2023, “Coordinated Extended Observations of TSE 2024 with Citizen CATE Next Generation Ground Network and NASA WB-57 Airborne Telescopes (INVITED).” *AMS 2023*, Abstract #7.1 [invited]
276. Seaton, D. B., Bethge, C., **Caspi, A.**, *et al.* 2023, “Tracking Eruptions and Solar Wind Outflow with Wide-Field EUV Images from GOES/SUVI.” *AMS 2023*, Abstract #12.4
275. **Caspi, A.**, Seaton, D. B., Casini, R., *et al.* 2022, “The COMPLETE mission concept for comprehensive 3D understanding of coronal magnetic energy storage and release.” *AGU Fall Meeting 2022*, Abstract #SH42B-09
274. **Caspi, A.**, Bryans, P., DeForest, C. E., Downs, C., Kovac, S., Raftery, C. L., Seaton, D. B., & West, M. J. 2022, “Coordinated ground and airborne extended observations of TSE 2024 with Citizen CATE and NASA’s WB-57s.” *AGU Fall Meeting 2022*, Abstract #ED35C-0563
273. Chowdhury, R., Galarraga, G., Honan, S., Sandiford-Hoxie, C., & **Caspi, A.** 2022, “STEAM - Understanding Origins of Coronal Plasma through Elemental Abundances in X-Ray Spectra.” *AGU Fall Meeting 2022*, Abstract #SH24A-06
272. Davis, S., Kovac, S., **Caspi, A.**, & Seaton, D. B. 2022, “Preparing for the 2024 Total Solar Eclipse with Citizen CATE.” *AGU Fall Meeting 2022*, Abstract #ED35C-0565
271. Goodrich, K., Schwartz, S. J., Wilson, L. B., **Caspi, A.**, *et al.* 2022, “MAKOS: Multi-point Assessment of the Kinematics of Shocks.” *AGU Fall Meeting 2022*, Abstract #SH45D-2373
270. Hughes, J. M., Auchère, F., **Caspi, A.**, Pelouze, G., Plowman, J., Seaton, D. B., & West, M. J. 2022, “Pathfinding Solar Tomography for Future Missions via Model Data Reconstruction.” *AGU Fall Meeting 2022*, Abstract #SH12C-1462
269. Kovac, S., Davis, S., Jackiewicz, J., Brooks, K., **Caspi, A.**, & Seaton, D. B. 2022, “Leveraging the Citizen CATE 2017 Eclipse Experience to Build CATE 2024.” *AGU Fall Meeting 2022*, Abstract #ED32A-04
268. Robison, A., Faulkner, A., Sample, J. G., **Caspi, A.**, *et al.* 2022, “A High-Rate, High-Sensitivity Scintillator Detector for Solar Hard X-Ray Spectroscopy.” *AGU Fall Meeting 2022*, Abstract #SH25D-2088
267. Seaton, D. B., **Caspi, A.**, DeForest, C. E., *et al.* 2022, “Strategies for Modern, Multi-dimensional Data: Case Studies from PUNCH, CubIXSS, ECCCO, SunCET, & COMPLETE.” *AGU Fall Meeting 2022*, Abstract #SH52A-68
266. Setterberg, W., Glesener, L., Gebre-Egziabher, D., *et al.* 2022, “The Impulsive Phase Rapid Energetic Solar Spectrometer (IMPRESS) CubeSat Science and Status.” *AGU Fall Meeting 2022*, Abstract #SH23A-09
265. Kirn, S., **Caspi, A.**, & Kovac, S. 2022, “NASA Citizen Science: An Accessible and Authentic Invitation to Be Part of Scientific Discovery!” *ASP 2022 Conference (Virtual)*, Abstract #2C-1

264. **Caspi, A.**, DeForest, C. E., Laurent, G. T., *et al.* 2022, “CubIXSS: The CubeSat Imaging X-ray Solar Spectrometer.” *SSWRF II Workshop* (Laurel, MD)
263. Greathouse, A., Kozic, T., Nightingale, M., *et al.* 2022, “Methods of Managing the Student Led Impulsive Phase Rapid Energetic Solar Spectrometer (IMPRESS) CubeSat Mission.” *SSWRF II Workshop* (Laurel, MD)
262. Martínez Oliveros, J. C., Christe, S., Saint-Hilaire, P., **Caspi, A.**, Krucker, S., Hayes, L., Limousin, O., & Meuris, A. 2022, “The solar PolArization and Directivity X-Ray Experiment: PADRE.” *SSWRF II Workshop* (Laurel, MD)
261. **Caspi, A.**, Seaton, D., Casini, R., *et al.* 2022, “COMPLETE: a mission concept for comprehensive 3D understanding of coronal magnetic energy storage and release.” *AAS/AGU TESS #3*, Abstract #411.08
260. **Caspi, A.**, Seaton, D., Bryans, P., *et al.* 2022, “Observing total solar eclipses with NASA's WB-57s.” *AAS/AGU TESS #3*, Abstract #118.01
259. Galarraga, G., Honan, S., Hanson, M., Bordiuk, S., Starr, A., **Caspi, A.**, & Steam Team 2022, “Student Thermal Energetic Activity Module (STEAM): X-Ray Spectrometers Investigating Solar Plasma Heating Mechanisms.” *AAS/AGU TESS #3*, Abstract #411.03
258. Gibson, S., Bąk-Stęślicka, U., Casini, R., Dahlin, J., Fan, Y., Karpen, J., **Caspi, A.**, & Tomczyk, S. 2022, “Multiwavelength Spectropolarimetric Diagnostics of CME Precursor Topologies.” *AAS/AGU TESS #3*, Abstract #410.08
257. Kovac, S., **Caspi, A.**, Seaton, D., *et al.* 2022, “Planning Citizen CATE for the 2024 Total Solar Eclipse.” *AAS/AGU TESS #3*, Abstract #303.04
256. Martínez Oliveros, J. C., Christe, S., Saint-Hilaire, P., **Caspi, A.**, Krucker, S., Hayes, L., Limousin, O., & Meuris, A. 2022, “The solar PolArization and Directivity X-Ray Experiment: PADRE.” *AAS/AGU TESS #3*, Abstract #124.06
255. Plowman, J., **Caspi, A.**, Hassler, D., Hughes, M., Seaton, D., & West, M. 2022, “Single and Multiple Vantage Point 3D Coronal Reconstruction with the CROBAR Method.” *AAS/AGU TESS #3*, Abstract #411.07
254. Roberts, A., Rutovic, M., Layshock, P., Thompson, T., & **Caspi, A.** 2022, “NASA's Specialized High Altitude Airborne Platforms Supporting Eclipse Observations.” *AAS/AGU TESS #3*, Abstract #118.05
253. Seaton, D., **Caspi, A.**, Chitta, L. P., *et al.* 2022, “The Middle Corona and the Origins of the Solar Wind.” *AAS/AGU TESS #3*, Abstract #304.01
252. Setterberg, W., Glesener, L., Egziabher, D. G., *et al.* 2022, “The Impulsive Phase Rapid Energetic Solar Spectrometer CubeSat mission.” *AAS/AGU TESS #3*, Abstract #124.08
251. West, M., Gibson, S., **Caspi, A.**, *et al.* 2022, “Forward Modeling Observables from the Lower Corona to 180 Solar Radii.” *AAS/AGU TESS #3*, Abstract #111.11
250. Woods, T. N., MinXSS Science Team, & INSPIRE Team 2022, “Significant Improvements for the Measurements of the Solar Soft X-ray Irradiance with the New Dual-zone Aperture X-ray Solar Spectrometer (DAXSS).” *AAS/AGU TESS #3*, Abstract #116.01
249. **Caspi, A.**, Shih, A. Y., Warren, H. P., *et al.* 2022, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *SPHERE Workshop lightning talk (Jul. 2022)* [invited]
248. Woods, T. N., **Caspi, A.**, & MinXSS CubeSat Team 2022, “The MinXSS CubeSats: up-

- dates.” *SPHERE Workshop (Jul. 2022)* [invited]
247. McTiernan, J. M., **Caspi, A.**, Warren, H. P., & Laming, J. M. 2022, “Solar Flare Abundance calculations with MinXSS and RHESSI.” *SPHERE Workshop (Jul. 2022)*
246. Martínez Oliveros, J. C., and the PADRE team 2022, “PADRE Mission.” *SPHERE Workshop lightning talk (Jul. 2022)*
245. Narukage, N., Oka, M., **Caspi, A.**, and the PhoENiX Science Team 2022, “The PhoENiX Mission Concept: Science Objectives and Requirements.” *SPHERE Workshop (Jul. 2022)*
244. Setterberg, W., Glesener, L., Gebre Egzhiaber, D., *et al.* 2022, “IMPRESS lightning talk.” *SPHERE Workshop lightning talk (Jul. 2022)*
243. Setterberg, W., Glesener, L., Gebre Egzhiaber, D., *et al.* 2022, “The IMPulsive Phase Rapid Energetic Solar Spectrometer CubeSat mission.” *SPHERE Workshop (Jul. 2022)*
242. Cassak, P., Arencibia, M., Barbhuiya, H., *et al.* 2022, “Two Aspects of Solar Flare Physics Beyond MHD - 3D Reconnection Spreading and Electron Heating.” *SHINE 2022 Workshop (Jun. 2022)*
241. **Caspi, A.**, Seaton, D. B., Casini, R., *et al.* 2022, “Realizing Comprehensive 3D Observations to Probe Magnetic Energy Storage and Release in the Corona.” *Heliophysics 2050: Measurements and Technologies Workshop*, Abstract #4058
240. Seaton, D. B., **Caspi, A.**, Casini, R., Downs, C., Gibson, S., Gilbert, H., *et al.* 2022. “New Approaches to Integrated Mission, Data, and Modeling Frameworks.” *Heliophysics 2050: Measurements and Technologies Workshop*, Abstract #4057
239. West, M. J., Seaton, D. B., Alzate, N., **Caspi, A.**, DeForest, C. E., Gilly, C. R., *et al.* 2022. “A Strategy for a Coherent and Comprehensive Basis for Understanding the Middle Corona.” *Heliophysics 2050: Measurements and Technologies Workshop*, Abstract #4060
238. Knuth, T., Shih, A., Glesener, L., **Caspi, A.**, Smith, D., Sample, J., & Setterberg, W. 2022. “The Role of Non-Imaging Hard X-Ray Spectrometers Solar Flare Observations.” *Heliophysics 2050: Measurements and Technologies Workshop*, Abstract #4059
237. **Caspi, A.**, Seaton, D. B., Casini, R., *et al.* 2021, “Understanding the coronal origins of global heliospheric phenomena through 3D measurements with COMPLETE.” *AGU Fall Meeting 2021*, Abstract #SH25F-2151
236. Seaton, D. B., **Caspi, A.**, Casini, R., *et al.* 2021, “The COMPLETE mission concept for the Heliophysics Decadal Survey.” *AGU Fall Meeting 2021*, Abstract #SH52A-08
235. Martínez Oliveros, J. C., Christe, S., Saint-Hilaire, P., Krucker, S., Hayes, L. A., **Caspi, A.**, Limousin, O., & Peretz, E. 2021, “The solar Polarization and Directivity X-Ray Experiment: PADRE.” *AGU Fall Meeting 2021*, Abstract #SH51A-03
234. Wieber, M., Glesener, L., Gebre Egziabher, D., *et al.* 2021, “The IMPulsive Phase Rapid Energetic Solar Spectrometer Mission at the University of Minnesota.” *AGU Fall Meeting 2021*, Abstract #SH55B-1832
233. Setterberg, W., Glesener, L., Gebre Egziabher, D., *et al.* 2021, “IMPulsive Phase Rapid Energetic Solar Spectrometer (IMPRESS): Science and Detector Goals.” *AGU Fall Meeting 2021*, Abstract #SH55B-1833
232. Galarraga, G., Bliss, C., Angeles, A., *et al.* 2021, “Student Thermal Energetic Activity Module (STEAM) X-Ray Spectrometer on the PUNCH Small Explorer.” *AGU Fall Meeting*

- 2021, Abstract #SH55B-1834
231. **Caspi, A.**, Seaton, D. B., Casini, R., *et al.* 2021, “The COMPLETE mission concept for the Heliophysics Decadal Survey.” *FASR 2021 Workshop* (virtual)
230. **Caspi, A.**, *et al.* 2021, “Solar Spectroscopy in X-rays and EUV, and Future Prospects.” *Particle Acceleration in Solar Flares and the Plasma Universe – Deciphering its features under magnetic reconnection* (Kashiwa, Japan [virtual]), Abstract #38 [invited]
229. **Caspi, A.**, Casini, R., Downs, C., Glesener, L., Guidoni, S., Reeves, K., Seaton, D. B., Shih, A. Y., & the COMPLETE Team 2021, “The COMPLETE mission concept for the Heliophysics Decadal Survey.” *RHESSI 20th Workshop* (Virtual), Abstract #45
228. McTiernan, J. M., **Caspi, A.**, Laming, J. M., & Warren, H. P. 2021, “Current progress on MinXSS-RHESSI joint DEMs.” *RHESSI 20th Workshop* (Virtual), Abstract #46
227. Nagasawa, S., Kawate, T., Narukage, N., Takahashi, T., **Caspi, A.**, & Woods, T. N. 2021, “Time Evolution of Thermal and Non-thermal Emission from M7.6 Class Flare Observed with MinXSS and RHESSI.” *RHESSI 20th Workshop* (Virtual), Abstract #37
226. **Caspi, A.**, Shih, A. Y., Warren, H. P., *et al.* 2021, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *Parker ONE Conference* (Virtual), Abstract #547
225. Galarraga, G., Ahlers, O., Angeles, A., *et al.* 2021, “Student Thermal Energetic Activity Module (STEAM): X-Ray Spectrometer for Solar Flares and Active Regions.” *Parker ONE Conference* (Virtual), Abstract #546
224. **Caspi, A.**, Shih, A. Y., Panchapakesan, S. A., *et al.* 2021, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *AAS Meeting #238* (Virtual), Abstract #216.09
223. Galarraga, G., Ahlers, O., Angeles, A., *et al.* 2021, “Student Thermal Energetic Activity Module (STEAM) X-ray Spectrometer on the PUNCH Small Explorer.” *AAS Meeting #238* (Virtual), Abstract #313.03
222. Martínez Oliveros, J. C., Christe, S. D., Saint-Hilaire, P., *et al.* 2021, “The Solar Polarization and Directivity X-ray Experiment (PADRE).” *AAS Meeting #238*, Abstract #313.09
221. Knuth, T., Glesener, L., Gebre-Egziabher, D., *et al.* 2021, “The IMPulsive Phase Rapid Energetic Solar Spectrometer: A Fast Time Domain X-ray CubeSat.” *AAS Meeting #238*, Abstract #313.10
220. Nagasawa, S., Kawate, T., Narukage, N., Takahashi, T., **Caspi, A.**, & Woods, T. 2021, “Study of Time Evolution of Thermal and Non-Thermal Emission from the M-Class Solar Flare.” *SolFER Spring 2021 Meeting* (Virtual), Abstract #35
219. Narukage, N., Oka, M., Fukazawa, Y., *et al.* 2021, “Satellite mission: PhoENiX (Physics of Energetic and Non-thermal plasmas in the X (= magnetic reconnection) region).” *SolFER Spring 2021 Meeting* (Virtual), Abstract #77
218. **Caspi, A.**, Shih, A. Y., Athiray, P. S., *et al.* 2021, “Understanding Heating of the Solar Corona Through Soft X-ray Spectroscopy.” *Heliophysics 2050 Workshop* (Virtual)
217. Glesener, L., Allred, J., **Caspi, A.**, *et al.* 2021, “Understanding Stellar Flares by Observing the High-Energy Sun.” *Heliophysics 2050 Workshop* (Virtual)
216. Oka, M., Glesener, L., **Caspi, A.**, & Narukage, N. 2021, “Solar Flares as the Key Toward Understanding Particle Acceleration in the Plasma Universe.” *Heliophysics 2050 Workshop* (Virtual)

215. Shih, A. Y., Glesener, L., Krucker, S., *et al.* 2021, “Fundamentals of Impulsive Energy Release in the Corona.” *Heliophysics 2050 Workshop* (Virtual)
214. Seaton, D. B., West, M. J., Alzate, N., **Caspi, A.**, *et al.* 2021, “A Strategy for a Coherent and Comprehensive Basis for Understanding the Middle Corona.” *Heliophysics 2050 Workshop* (Virtual)
213. Halford, A. J., Garcia-Sage, K., Samara, M., *et al.* 2021, “Enabling and Advancing Scientific Innovation Through Cultivating a Collaborative, Inclusive, Diverse, and Safe Community Culture.” *Heliophysics 2050 Workshop* (Virtual)
212. O’Connor, A., Angeles, A., Ahlers, O., *et al.* 2021, “Student Thermal Energetic Activity Module (STEAM).” *Parker Scholars Meeting #1* (Virtual)
211. Moore, C., Woods, T., Mason, J., **Caspi, A.**, Suarez Bustamente, C., Goettlicher, C., & Garza, S. 2021, “Sun-as-a-Star Science Results from the Miniature X-ray Solar Spectrometer (MinXSS) CubeSats.” *43rd COSPAR Scientific Assembly*, Abstract #E1.20-0004-21
210. **Caspi, A.**, Shih, A. Y., Warren, H. P., *et al.* 2020, “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS).” *AGU Fall Meeting 2020*, Abstract #SH048-0007
209. **Caspi, A.**, DeForest, C., Seaton, D. B., Thompson, B. J., Williams, L., & Wilson, J. 2020, “Online Advantage: Lessons Learned from a Virtual REU Program.” *AGU Fall Meeting 2020*, Abstract #ED040-07
208. Seaton, D. B., **Caspi, A.**, DeForest, C., Hughes, M., & GOES SUVI ECI Team 2020, “Why (And How) We Should Observe the Dynamic Middle Corona.” *AGU Fall Meeting 2020*, Abstract #SH030-0001
207. Williams, L., **Caspi, A.**, Seaton, D. B., & Samra, J. 2020, “Comparisons of Novel Imaging and Spectroscopic Infrared Eclipse Observations in 2017.” *AGU Fall Meeting 2020*, Abstract #SH048-0002
206. O’Connor, A., Ahlers, O., Angeles, A., *et al.* 2020, “The Student Thermal Energetic Activity Module (STEAM) X-ray Spectrometer for Solar Flares and Active Regions.” *AGU Fall Meeting 2020*, Abstract #SH048-0009
205. Hayes, L., Christe, S. D., Ryan, D., *et al.* 2020, “The Micro Solar Flare Apparatus (MiSolFA).” *AGU Fall Meeting 2020*, Abstract #SH056-08
204. Knuth, T., Glesener, L., Gebre Egzhiaber, D., *et al.* 2020, “The IMPulsive Phase Rapid Energetic Solar Spectrometer (IMPRESS): A Time Focused X-ray CubeSat.” *AGU Fall Meeting 2020*, Abstract #SH048-0013
203. Shih, A. Y., Glesener, L., Krucker, S., *et al.* 2020, “Updates on the Fundamentals of Impulsive Energy Release in the Corona Explorer (FIERCE) mission concept.” *AGU Fall Meeting 2020*, Abstract #SH048-0012
202. O’Connor, A., Angeles, A., Ahlers, O., *et al.* 2020, “Student Thermal Energetic Activity Module (STEAM).” *PUNCH Science AGU Splinter Meeting* [invited]
201. Williams, L., **Caspi, A.**, Seaton, D. B., & Samra, J. 2020, “Comparisons of Novel Imaging and Spectroscopic Infrared Eclipse Observations in 2017.” *AAS/SPD 51st Meeting*, Abstract #210.12
200. Angeles, A., O’Connor, A., Bliss, C., Ahlers, O., **Caspi, A.**, & the STEAM Team 2020, “Student Thermal Energetic Activity Module (STEAM) X-ray Spectrometer for Flares & Ac-

- tive Regions.” *AAS/SPD 51st Meeting*, Abstract #206.01
199. Martínez Oliveros, J. C., Buitrago Casas, J. C., **Caspi, A.**, Christe, S., Hayes, L., Knuth, T., & Su, Y. 2020, “Current and Future Instrumentation.” *RHESSI 19th Workshop* (Virtual)
198. O’Connor, A., Angeles, A., Ahlers, O., *et al.* 2020, “Student Energetic Activity Module (STEAM).” *PUNCH 1st Science Meeting* (Virtual) [invited]
197. DeForest, C. E., Laurent, G. T., Pyke, B., **Caspi, A.**, Egan, A., Lamb, D., & Shoffner, M. 2020, “Lowering Barriers to Near-Space Heliophysics with B-SSIPP.” *Next-Generation Sub-orbital Researchers Conference 2020* (Broomfield, CO)
196. Laurent, G. T., DeForest, C. E., Pyke, B., **Caspi, A.**, Egan, A., Lamb, D., & Shoffner, M. 2020, “B-SSIPP: 2019 High-Altitude Balloon Flight of SSIPP.” *Next-Generation Suborbital Researchers Conference 2020* (Broomfield, CO)
195. Shih, A. Y., Glesener, L., Christe, S. D., *et al.* 2020, “Combined Next-Generation X-ray and EUV Observations with the FIERCE Mission Concept.” *American Meteorological Society 100th Annual Meeting* (Boston, MA), 17th Conference on Space Weather, Abstract #16.2A
194. Suarez, C., Moore, C. S., Woods, T., **Caspi, A.**, Mason, J. P., & MinXSS Team 2020, “Science Results from the MinXSS CubeSats.” *AAS Meeting #235* (Honolulu, HI), Abs. #259.02
193. **Caspi, A.**, Seaton, D. B., Tsang, C., *et al.* 2019, “Novel observations of the middle corona during the 2017 total solar eclipse.” *AGU Fall Meeting 2019*, Abstract #SH13A-10
192. Shih, A. Y., Glesener, L., Christe, S. D., *et al.* 2019, “Combined Next-Generation X-ray and EUV Observations with the FIERCE Mission Concept.” *AGU Fall Meeting 2019*, Abstract #SH33A-08
191. Glesener, L., Shih, A. Y., Christe, S., *et al.* 2019, “FIERCE Science: Expected Results from a High-Energy Medium-Class Explorer.” *AGU Fall Meeting 2019*, Abstract #SH31C-3313
190. Mrozek, T., Stęślicki, M., Gburek, S., *et al.* 2019, “Spectrometer for Temperature and Composition for the FIERCE MIDEX mission concept.” *AGU Fall Meeting 2019*, Abstract #SH31C-3314
189. Birch, M., Burgett, J., Knuth, T., *et al.* 2019, “IMPRESS: A Scintillation Detector for Solar Flare Observations.” *AGU Fall Meeting 2019*, Abstract #SH31C-3312
188. Saint-Hilaire, P., Jeffrey, N. L. S., Martínez Oliveros, J. C., *et al.* 2019, “Solar flare hard X-ray and gamma-ray imaging spectro-polarimetry with GRIPS and SAPPHIRE/SHARPIE.” *AGU Fall Meeting 2019*, Abstract #SH31C-3310
187. McTiernan, J. M., **Caspi, A.**, & Warren, H. P. 2019, “RHESSI-GOES Comparisons of Soft X-ray Emission from Solar Flares, 2002 – 2017.” *AGU Fall Meeting 2019*, Abstract #SH13D-3427
186. Plowman, J. E., Barnes, W., Bradshaw, S. J., **Caspi, A.**, DeForest, C. E., & Klimchuk, J. A. 2019, “Volume-filling Simulations of Coronal Loops Heated by Nanoflares.” *AGU Fall Meeting 2019*, Abstract #SH53B-3380
185. **Caspi, A.**, IMPRESS Team, & CubIXSS Team 2019, “New CubeSats for X-ray spectroscopy from solar flares.” *Progress on Spectroscopy & Imaging III* (Wrocław, Poland) [invited]
184. **Caspi, A.**, McTiernan, J. M., Warren, H. P., Laming, J. M., Woods, T. N., & Plowman, J. E. 2019, “Recent progress in temperature distribution determinations in solar flares and ac-

- tive regions using spectroscopy and imaging.” *Progress on Spectroscopy & Imaging III* (Wrocław, Poland) [invited]
183. **Caspi, A.**, Seaton, D. B., Case, T., *et al.* 2019, “COHERENT: Studying the corona as a holistic environment.” *SHINE Conference 2019*, Poster #P011
182. Christe, S. D., Shih, A. Y., Krucker, S., *et al.* 2019, “The Focusing Optics X-ray Solar Imager (FOXSI).” *AAS Meeting #234* (St. Louis, MO), Abstract #225.01
181. **Caspi, A.**, McTiernan, J. M., Warren, H. P., Laming, J. M., & Woods, T. N. 2019, “Comprehensive DEM and Abundance Measurements through Full X-ray Coverage.” *RHESSI 18th Workshop* (Minneapolis, MN)
180. Knuth, T., Glesener, L., Gebre-Egziabher, D., *et al.* 2019, “The IMPulsive Phase Rapid Energetic Solar Spectrometer (IMPRESS).” *RHESSI 18th Workshop* (Minneapolis, MN)
179. Christe, S. D., Shih, A. Y., Krucker, S., *et al.* 2019, “The Focusing Optics X-ray Solar Imager (FOXSI) Explorer.” *RHESSI 18th Workshop* (Minneapolis, MN)
178. Narukage, N., & PhoENiX Working Group 2019, “Satellite mission PhoENiX: Physics of Energetic and Non-thermal plasmas in the X (= magnetic reconnection) region.” *RHESSI 18th Workshop* (Minneapolis, MN)
177. Stęślicki, M., Gburek, S., **Caspi, A.**, *et al.* 2019, “Small soft X-ray spectrometer support for an imaging hard X-ray spectrometer.” *RHESSI 18th Workshop* (Minneapolis, MN)
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65. Marsh, A., Hannah, I. G., Glesener, L., *et al.* 2014, “*NuSTAR*’s First Solar Observations: Search for Transient Brightenings / Nanoflares.” *LWS SDO-8 Workshop* (Portland, OR)
64. **Caspi, A.**, & Woods, T. N. 2014, “X123 Results from the *SDO/EVE* Sounding Rockets.” *LWS SDO-8 Workshop* (Portland, OR), *SDO/EVE* Working Group meeting
63. Hannah, I. G., Marsh, A., Glesener, L., *et al.* 2014, “*NuSTAR*’s solar observing campaign: Towards detecting the faintest HXR emission from flare accelerated electrons.” *14th European Solar Physics Meeting* (Dublin, Ireland), Poster #1.07
62. Hannah, I. G., Marsh, A., Glesener, L., *et al.* 2014, “*NuSTAR*’s solar observing campaign: Towards detecting the faintest HXR emission from flare accelerated electrons.” *Royal Society “New approaches in coronal heating” Meeting* (Buckinghamshire, UK), Poster #8
61. **Caspi, A.**, McTiernan, J., Warren, H., & Woods, T. N. 2014, “The Multi-Instrument, Comprehensive Differential Emission Measure (DEM) of the Solar Corona During Flares and Quiescent Periods.” *Bulletin of the Amer. Astron. Soc.*, **46(4)**, Abstract #123.07
60. Glesener, L., **Caspi, A.**, Christe, S., *et al.* 2014, “Current and future solar observation using focusing hard X-ray imagers.” *Bulletin of the Amer. Astron. Soc.*, **46(4)**, Abstract #123.64
59. Marsh, A., Smith, D. M., Glesener, L., & **Caspi, A.** 2014, “Pre-Impulsive Flares and Chro-

- ospheric Heating/Evaporation Mechanisms with *RHESSI* and AIA.” *Bulletin of the Amer. Astron. Soc.*, **46(4)**, Abstract #123.02
58. Liu, W., Qiu, J., Longcope, D., & **Caspi, A.** 2014, “Heating Rate in Reconnection Formed Flare Loops.” *Bulletin of the Amer. Astron. Soc.*, **46(4)**, Abstract #123.13
 57. **Caspi, A.**, Mason, J. P., Shih, A. Y., & Christe, S. D. 2014, “CubeSats: Overview and Enabling Technologies for Solar Observations.” *RHESSI 13th Workshop* (Windisch, Switzerland) [*invited*]
 56. **Caspi, A.**, Woods, T. N., Mason, J. P., & Shih, A. Y. 2014, “New CubeSats for Solar X-ray Observations: *MinXSS* & *CubIXSS*.” *RHESSI 13th Workshop* (Windisch, Switzerland)
 55. **Caspi, A.**, & McTiernan, J. M. 2014, “The Multi-Instrument (EVE-*RHESSI*) DEM for Solar Flares, and Implications for Non-Thermal Emission.” *RHESSI 13th Workshop* (Windisch, Switzerland)
 54. **Caspi, A.** 2014, “Coronal Plasma Heating in the Flaring and Quiescent Sun.” *Huntsville 2014 Workshop* (Orlando, FL) [*invited*]
 53. **Caspi, A.**, Woods, T. N., Mason, J. P., Jones, A. R., & Warren, H. P. 2013, “New Observations of Soft X-ray (0.5–5 keV) Solar Spectra.” *AGU Fall Meeting 2013*, Abstract #SH33A-2036
 52. McTiernan, J. M., **Caspi, A.**, & Warren, H. P. 2013, “The Multi-Instrument (EVE-*RHESSI*) DEM for Solar Flares, and Implications for Non-thermal Emission.” *AGU Fall Meeting 2013*, Abstract #SH13A-2004
 51. Woods, T. N., **Caspi, A.**, Chamberlin, P. C., Eparvier, F. G., Jones, A. R., Sojka, J. J., Solomon, S. C., & Viereck, R. A. 2013, “Solar Extreme Ultraviolet and X-ray Irradiance Measurements for Thermosphere and Ionosphere Studies.” *AGU Fall Meeting 2013*, Abstract #SA41D-07 [*invited*]
 50. Mason, J. P., Woods, T. N., **Caspi, A.**, & Hock, R. A. 2013, “Understanding Coronal Dimming and its Relation to Coronal Mass Ejections.” *AGU Fall Meeting 2013*, Abstract #SH53A-2149
 49. Warren, H. P., **Caspi, A.**, & McTiernan, J. M. 2013, “Spectral Modeling: Differential Emission Measures with EVE, *GOES*, and *RHESSI*.” *SDO/EVE Science Working Group Meeting* (Boulder, CO)
 48. Mason, J. P., Woods, T. N., **Caspi, A.**, Jones, A. R., Hock, R. A., Thompson, B., Reinard, A., & Webb, D. 2013, “Coronal Dimming and Coronal Mass Ejections.” *SDO/EVE Science Working Group Meeting* (Boulder, CO)
 47. Mason, J. P., Woods, T. N., & **Caspi, A.** 2013, “Understanding Solar Eruptive Events: Analysis of Coronal Dimming and Development of a Solar-Observing CubeSat.” NASA/GSFC Heliophysics Group Seminar (Greenbelt, MD) [*invited*]
 46. McTiernan, J. M., **Caspi, A.**, & Warren, H. P. 2013, “EVE-*RHESSI* Observations of Thermal and Nonthermal Flare Emission.” *Bulletin of the Amer. Astron. Soc.*, **45(8)**, Abstract #100.55
 45. Liu, W., Qiu, J., Longcope, D., **Caspi, A.**, Courtney, C., & O’Hara, J 2013, “Determining Heating Rates in Reconnection Formed Flare Loops.” *Bulletin of the Amer. Astron. Soc.*, **45(8)**, Abstract #200.03
 44. Palo, S., Woods, T., Li, X., Mason, J., Carton, M., **Caspi, A.**, Jones, A., Kohnert, R., & Sol-

- omon, S. 2013, “*MinXSS: A Three Axis Stabilized Cubesat for Conducting Solar Physics.*” *5th European CubeSat Symposium* (Brussels, Belgium)
43. **Caspi, A.**, Woods, T. N., & Stone, J. 2013, “A New Observation of the Quiet Sun Soft X-ray (0.5–5 keV) Spectrum.” *Boulder Solar Day 2013* (Boulder, CO)
 42. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2013, “Exploring Thermal and Non-Thermal Flare Emission with EVE and *RHESSI*: Current Progress.” *Boulder Solar Day 2013* (Boulder, CO)
 41. **Caspi, A.**, Woods, T. N., & Stone, J. 2013, “A New Observation of the Quiet Sun Soft X-ray (0.5–5 keV) Spectrum.” *LWS SDO-7 Workshop* (Cambridge, MD)
 40. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2013, “Exploring Thermal and Non-Thermal Flare Emission with EVE and *RHESSI*: Current Progress.” *LWS SDO-7 Workshop* (Cambridge, MD)
 39. Mason, J. P., Hock, R. A., Woods, T. N., Thompson, B. J., Webb, D. F., & **Caspi, A.** 2013, “Understanding Solar Eruptive Events.” *LWS SDO-7 Workshop* (Cambridge, MD)
 38. Doschek, G. A., Warren, H. P., Young, P. R., & **Caspi, A.** 2013, “Flare Footpoint Regions Observed by the Extreme-ultraviolet Imaging Spectrometer (EIS) on *Hinode*.” *LWS SDO-7 Workshop* (Cambridge, MD)
 37. **Caspi, A.**, Woods, T. N., & Stone, J. 2012, “A New Observation of the Quiet Sun Soft X-ray (0.5–5 keV) Spectrum.” *EOS Trans. AGU*, **93(52)**, Fall Meet. Suppl., Abstract #SH33A-2219
 36. McTiernan, J. M., Warren, H. P., & **Caspi, A.** 2012, “Exploring Thermal and Non-Thermal Flare Emission with EVE and *RHESSI*.” *EOS Trans. AGU*, **93(52)**, Fall Meet. Suppl., Abstract #SH52B-02
 35. Mason, J. P., Woods, T. N., & **Caspi, A.** 2012, “Correlations Between EUV Coronal Spectral Line Dimming and CME Kinetics.” *EOS Trans. AGU*, **93(52)**, Fall Meet. Suppl., Abstract #SH41A-2100
 34. Woods, T. N., Woodraska, D., Jones, A. R., Eparvier, F. G., & **Caspi, A.** 2012, “Space Weather Products from the Extreme Ultraviolet Variability Experiment (EVE).” *EOS Trans. AGU*, **93(52)**, Fall Meet. Suppl., Abstract #SH41A-2099
 33. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2012, “Exploring Thermal and Non-Thermal Flare Emission with EVE and *RHESSI*: Second Steps.” *RHESSI/SDO Solar in Sonoma: Tracing the Connections in Solar Eruptive Events* workshop (Petaluma, CA)
 32. Mason, J. P., Woods, T. N., & **Caspi, A.** 2012, “Correlations Between EUV Coronal Spectral Line Dimming and CME Kinetics.” *RHESSI/SDO Solar in Sonoma: Tracing the Connections in Solar Eruptive Events* workshop (Petaluma, CA)
 31. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2012, “Combining EVE and *RHESSI* Observations to Better Understand Flare Energetics: Second Steps.” *SDO/EVE Science and Data Analysis Workshop* (Yosemite, CA)
 30. **Caspi, A.**, Woods, T. N., Jones, A., Klapetzky, M., Carton, M., & Stone, J. 2012, “X123 – A new rocket instrument for soft X-ray spectroscopy.” *SDO/EVE Science and Data Analysis Workshop* (Yosemite, CA)
 29. **Caspi, A.**, & Klapetzky, M. 2012, “Rocket SAM modifications for soft X-ray spectroscopy: Concept and First Results.” *SDO/EVE Science and Data Analysis Workshop* (Yosemite, CA)

28. Mason, J. P., Woods, T. N., & **Caspi, A.** 2012, "Correlations Between EUV Coronal Spectral Line Dimming and CME Kinetics." *SDO/EVE Science and Data Analysis Workshop* (Yosemite, CA)
27. **Caspi, A.**, McTiernan, J. M., & Warren, H. P. 2012, "A Comprehensive View of the Temperature Distribution in Solar Flares from EVE and *RHESSI*." *Bulletin of the Amer. Astron. Soc.*, **44(4)**, Abstract #204.11
26. Liu, W., Qiu, J., Longcope, D., & **Caspi, A.** 2012, "Determine the Heating Rate in Reconnection Formed Flare Loops of the M8.0 flare on 2005 May 13." *Bulletin of the Amer. Astron. Soc.*, **44(4)**, Abstract #516.01D
25. Bryans, P., A'Hearn, M., Battams, K., *et al.* 2012, "The Journey of Sungrazing Comet Lovejoy." *Bulletin of the Amer. Astron. Soc.*, **44(4)**, Abstract #525.07
24. Saint-Hilaire, P., Chodas, P. W., Battams, K., *et al.* 2012, "Some Like it Hot: the Trajectory of Sungrazing Comet C/2011 W3 (Lovejoy) in the Solar Neighborhood." *Bulletin of the Amer. Astron. Soc.*, **44(4)**, Abstract #521.07
23. **Caspi, A.**, Krucker, S., & Lin, R. P. 2011, "Statistical Properties of Super-Hot Flares." *EOS Trans. AGU*, **92(52)**, Fall Meet. Suppl., Abstract #SH13B-1942
22. **Caspi, A.**, & Lin, R. P. 2011, "Non-thermal and Super-hot Coronal Sources in the 2002 July 23 X4.8 Flare." *Bulletin of the Amer. Astron. Soc.*, **43(5)**, Abstract #22.09
21. Raulin, J.-P., Trottet, G., Giménez de Castro, C. G., Luthi, T., **Caspi, A.**, Mandrini, C. H., Luoni, M. L., & Kaufmann, P. 2011, "The Time-Extended Phase of Solar Flares at MM-SUBMM Wavelengths." *Bulletin of the Amer. Astron. Soc.*, **43(5)**, Abstract #12.06
20. Lin, R. P., Krucker, S., **Caspi, A.**, *et al.* 2011, "*Solar Eruptive Events (SEE)* Mission for the Next Solar Maximum." *Bulletin of the Amer. Astron. Soc.*, **43(5)**, Abstract #22.04
19. **Caspi, A.**, Krucker, S., Hurford, G., & McTiernan, J. 2010, "Thermal imaging of multi-temperature flare plasma with *RHESSI* visibilities." *EOS Trans. AGU*, **91(52)**, Fall Meet. Suppl., Abstract #SH53B-08
18. **Caspi, A.** 2010, "Thermal imaging with visibilities." *RHESSI 10th General Workshop: Reconnect in Annapolis* (Annapolis, MD)
17. **Caspi, A.**, & Lin, R. P. 2010, "*RHESSI* Observations of Super-Hot ($T > 30$ MK) Plasma in Large Solar Flares." *Bulletin of the Amer. Astron. Soc.*, **42(3)**, 910, Abstract #320.01
16. McTiernan, J. M., & **Caspi, A.** 2010, "The Probability for Two Distinct High-Temperature Components in the 23-July-2002 Solar Flare." *Bulletin of the Amer. Astron. Soc.*, **42(3)**, 900, Abstract #404.08
15. **Caspi, A.**, Krucker, S., & Lin, R. P. 2008, "Can chromospheric evaporation explain superhot flare plasmas?" *EOS Trans. AGU*, **89(23)**, Jt. Assem. Suppl., Abstract #SP44A-03
14. **Caspi, A.**, Krucker, S., & Lin, R. P. 2007, "Statistics of hot plasmas in M/X flares using *RHESSI* Fe & Fe/Ni line and continuum observations." *EOS Trans. AGU*, **88(52)**, Fall Meet. Suppl., Abstract #SH41A-0309
13. **Caspi, A.**, Krucker, S., & Lin, R. P. 2007, "Statistical properties of hot thermal plasmas in M/X flares using *RHESSI* Fe & Fe/Ni line and continuum observations." *Bulletin of the Amer. Astron. Soc.*, **39(1)**, 214, Abstract #93.18
12. **Caspi, A.**, Krucker, S., & Lin, R. P. 2006, "Pre-Impulsive Hard X-Ray Emission from Coro-

- nal Sources in X-Class Flares” (*updated*). *EOS Trans. AGU*, **87(52)**, Fall Meet. Suppl., Abstract #SH43B-1528
11. **Caspi, A.**, Krucker, S., & Lin, R. P. 2006, “Measuring the Temperature of Hot Flare Plasma Using *RHESSI* Fe and Fe/Ni Line Observations.” *Bulletin of the Amer. Astron. Soc.*, **38(2)**, 253, Abstract #27.04
 10. **Caspi, A.**, Krucker, S., & Lin, R. P. 2005, “Pre-Impulsive Hard X-Ray Emission from Coronal Sources in X-Class Flares.” *EOS Trans. AGU*, **86(52)**, Fall Meet. Suppl., Abstract #SH13A-0285
 9. **Caspi, A.**, & Lin, R. P. 2005, “Distinguishing Between Thermal and Non-Thermal Electron Populations in Solar Flares Using *RHESSI*.” *EOS Trans. AGU*, **86(18)**, Jt. Assem. Suppl., Abstract #SP41C-05
 8. Hudson, H., **Caspi, A.**, Dennis, B. R., & Phillips, K. J. H. 2005, “*RHESSI* soft X-ray imaging spectroscopy of a flare.” *EOS Trans. AGU*, **86(18)**, Jt. Assem. Suppl., Abstract #SH31A-03
 7. **Caspi, A.**, Krucker, S., & Lin, R. P. 2004, “Characterizing Thermal and Non-Thermal Electron Populations in Solar Flares Using *RHESSI*” (*updated*). *COSPAR Plenary Meeting*, **35**, 3582, Abstract #E2.3-0013-04
 6. **Caspi, A.**, Krucker, S., & Lin, R. P. 2004, “Characterizing Thermal and Non-Thermal Electron Populations in Solar Flares Using *RHESSI*.” *RHESSI 4th Gen. Workshop* (Paris, France)
 5. **Caspi, A.**, Krucker, S., & Lin, R. P. 2004, “Characterizing Thermal and Non-Thermal Electron Populations in Solar Flares Using *RHESSI*.” *Bulletin of the Amer. Astron. Soc.*, **36(2)**, 819, Abstract #87.04
 4. **Caspi, A.**, Krucker, S., & Lin, R. P. 2003, “*RHESSI* Observations of High-Temperature Plasmas in Solar Flares.” *EOS Trans. AGU*, **84(46)**, Fall Meet. Suppl., Abstract #SH22A-0170
 3. Balciunaite, P., Krucker, S., **Caspi, A.**, & Lin, R. P. 2003, “Non-thermal coronal hard X-ray emission observed during a partially occulted flare.” *EOS Trans. AGU*, **84(46)**, Fall Meet. Suppl., Abstract #SH22A-0172
 2. **Caspi, A.**, Krucker, S., & Lin, R. P. 2003, “Energy estimates for solar flares using *RHESSI* and *GOES* SXI.” *Bulletin of the Amer. Astron. Soc.*, **35(3)**, 850, Abstract #22.04
 1. **Caspi, A.**, Krucker, S., & Lin, R. P. 2002, “Correlation of *RHESSI* and *TRACE* Observations of the Rise Phase of the 21 April 2002 X1.5 Flare.” *EOS Trans. AGU*, **83(47)**, Fall Meet. Suppl., Abstract #SH52A-0465

SERVICE:

- | | |
|------|---|
| 2024 | Scientific Organizing Committee – Hinode-17 / IRIS-14 / SPHERE-3 workshop (Bozeman, MT) |
| 2023 | Organizing Committee – Solar Physics High Energy Research (SPHERE) 2 nd Workshop (College Park, MD)
Session convener/chair – AGU Fall Meeting, sess. SH21A (oral), SH11C (poster)
Review panel superchair – NASA Heliophysics |
| 2022 | Chair, Science Organizing Committee – Small Satellites for Space Weather Research & Forecasting (SSWRF) Workshop II (Laurel, MD + virtual)
Chair, Organizing Committee – Solar Physics High Energy Research (SPHERE) Workshop (Boulder, CO + Windisch, CH + virtual) |

- Invited panelist, NASA SmallSat LEARN Forum, SmallSat PI/PM Panel
 Session convener/chair – AGU Fall Meeting, sess. SH22B (oral), SH23A (oral), SH24A (poster), SH25D (poster)
 Review panel member – NASA Heliophysics
 Referee – *Advances in Space Research*
- 2021
 Science Organizing Committee member – Heliophysics 2050 Workshop
 Session convener/chair – AGU Fall Meeting, sess. SH51A (oral), SH52A (oral), SH55B (poster)
 Session chair – *Particle Accel. in Solar Flares & the Plasma Universe*, sess. 4.3
 Session chair – AAS Meeting #238, sess. 106
 Review panel member – NASA Heliophysics, NASA Astrophysics
- 2020
 Chair, Local Organizing Committee – *PUNCH* 1st Science Team Meeting (Boulder, CO)
 Organizing Committee member – Next-generation Suborbital Researchers Conference 2020 (Broomfield, CO)
 Session convener/chair – AGU Fall Meeting, sess. SH056 (oral), SH048 (poster)
 Lead organizer – *Space Weather* topical issue on Small Satellites for Space Weather Research & Forecasting
 Review panel superchair – NASA Heliophysics
 Referee – *Astrophysical Journal*, *Advances in Space Research*
- 2019
 Invited panelist, Committee for Solar & Space Physics, National Academies of Science, Engineering, & Medicine – Short Report on Agile Response to Rideshare Opportunities for the NASA Heliophysics Division
 Science Organizing Committee member, working group leader – *RHESSI* 18th Workshop (Minneapolis, MN)
 Session convener/chair – AGU Fall Meeting, sess. SH33A (oral), SH31C (poster)
 Referee – *Astrophysical Journal*, *Solar Physics*, *Advances in Space Research*, *Nature Astronomy*
- 2018
 Science Organizing Committee member, working group leader – *RHESSI* 17th Workshop (Dublin, Ireland)
 Session convener/chair – AGU Fall Meeting, sess. SH11B (oral), SH11C (poster), SH33B (oral), SH33E (poster)
 Review panel member/chair, external reviewer – NASA Astrophysics & Heliophysics; NSF/NCAR Observing Facilities Assessment Panel
- 2017–present
 Chief Scientist, Enterprise in Space
- 2017
 Chair, Local Organizing Committee – *RHESSI* 16th Workshop (Boulder, CO)
 Organizing Committee member – Next-generation Suborbital Researchers Conference 2017 (Broomfield, CO)
 Session chair – AAS/SPD #48 (Portland, OR), sess. 300, 402
 Session convener/chair – AGU Fall Meeting, sess. SH24A (oral), SH13B (poster), A41I (poster)
 Referee – *Nature Astronomy*, *Astrophysical Journal*, *Journal of Geophysical Re-*

search: Space Physics

- 2016 Science Organizing Committee member, working group leader – *RHESSI 15th Workshop* (Graz, Austria)
 Session convener/chair – AGU Fall Meeting, sess. SH11D (oral), SH13A (poster)
 AAS Congressional Visits Day participant
 Referee – *Solar Physics, Journal of Geophysical Research: Space Physics, Astrophysical Journal*
 External reviewer – NASA Heliophysics
- 2015 Session chair – AAS/AGU TESS #1, session 406 (oral)
 Referee – *Astrophysical Journal*
 External reviewer – NASA Heliophysics
- 2014 Science Organizing Committee member, session leader – *RHESSI 13th Workshop* (Windisch, Switzerland)
 Referee – *Astrophysical Journal*
 Review panel member – NASA Heliophysics
 External reviewer – NASA Heliophysics
- 2013 Science Organizing Committee member, working group leader – *SDO/EVE Science Working Group Meeting* (Boulder, CO)
 Organizing Committee member – *Coronal Dimming Working Group Meeting* (Boulder, CO)
 Referee – *Solar Physics, Astrophysical Journal*
 External reviewer – NASA Heliophysics
- 2012 Science Organizing Committee member, working group leader – *RHESSI/SDO “Tracing the Connections in Solar Eruptive Events” workshop* (Petaluma, CA)
 Science Organizing Committee member – *SDO/EVE Workshop* (Yosemite, CA)
 Local Organizing Committee member – *Comet Lovejoy Workshop* (Boulder, CO)
 Referee – *Astrophysical Journal*
 External reviewer – NASA Heliophysics
- 2011–2014 Steering Committee member – *LASP Interactive Solar Irradiance Datacenter*
- 2011 Review panel member – *NSF / SHINE*
- 2010–2011 Lead copy editor, assistant science editor – Emslie, A. G., Dennis, B. R., Lin, R. P., Hudson, H. S. (eds.) 2011, “High-Energy Aspects of Solar Flares,” a special edition of *Space Science Reviews* (vol. 159, issues 1–4). Uncredited – see Preface (pp. 1–2).
- 2010 Session chair – AGU Fall Meeting, session SH53B (oral)
- 2008 Local Organizing Committee student member – *RHESSI/STEREO/Hinode “Solar Activity During the Onset of Solar Cycle 24” Workshop* (Napa, CA)
- 2006 Group leader – *AAS/SPD Heliophysics Summer School* (Durham, NH)
- 2005 Proofreading and copy-editing assistance – Aschwanden, M. 2006, “Physics of the Solar Corona.” 2nd ed.

PUBLIC TALKS/PANELS:

- 2023 “Planes, trains, & automobiles: how scientists chase eclipse shadows, and you can, too!” – Chautauqua Spaced Out 2 (*Aug. 2023*)
 “The Sun: from Earth to Space,” “Scientists vs. Sci-Fi Authors – Is Sci-Fi Legit?” – Fan Expo Denver (*Jul. 2023*)
- 2022 “The Sun: from Earth to Space,” “Science Behind Hit Sci-Fi Shows,” & “It’s not Brain Surgery – but it **is** Rocket Science” – Fan Expo Denver (*Jul. 2022*)
- 2021 “The Sun: from Earth to Space” – Fan Expo Denver (*Oct. 2021*)
- 2019 “Airborne Science,” “Exploring Antarctica,” “How Do You Poop in the Antarctic?” “Anyone can work for NASA,” “How to Work in Science Without Being a Scientist,” & “Science of the Expanse” – Denver Pop Culture Con (*Jun. 2019*)
- 2018 “NASA – Extreme Scientists,” “How to Work for NASA,” “NASA – Exploring Antarctica,” & “How to Work in Science Without Being a Scientist” – Denver Comic Con (*Jun. 2018*)
- 2017 “NASA Antarctica: Exploration and Science at the Ends of the Earth,” & “Careers with NASA” – Denver Comic Con (*Jul. 2017*)

MAJOR MEDIA APPEARANCES: (<https://www.imdb.com/name/nm9256938/>)

- 2019 Science Channel, How the Universe Works S7E9, “Finding the New Earth” (air date: *5 Mar 2019*)
- 2018 Science Channel, How the Universe Works, “Great American Eclipse – One Year Later” (air date: *20 Aug 2018*)
 AOL.com, Space Pirates S1E3, “Enterprise in Space” (air date: *15 Aug 2018*)
 NHK Japan, Cosmic Front NEXT, “Eclipse: Mystery of the Solar Flare” (air date: *15 Mar 2018*)
- 2017 PBS, NOVA S44E11, “Eclipse Over America” (air date: *21 Aug 2017*)
 Science Channel, “Great American Eclipse” (air date: *21 Aug 2017*)