

Harvard-Smithsonian Center for Astrophysics
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SCIENTIFIC INTERESTS

Protoplanetary disks, star and planet formation, radio interferometry, transients, classical novae, supernovae

EDUCATION

2012 - present *Ph.D. Candidate*, Harvard University, Cambridge, MA
2010 - 2012 *Masters of Arts in Astronomy and Astrophysics*, Harvard University
2006 - 2012 *Bachelor of Science, Aerospace Engineering, Astronomy*
Graduation with High Distinction, University of Virginia (UVA), Charlottesville, VA

SCIENTIFIC RESEARCH

2013 - present **Thesis:** *The Fundamental Properties of Young Stars*, CfA, advised by Dr. Sean Andrews
2012 *MMTCam Commissioning*, Harvard-Smithsonian CfA, advised by Dr. Warren Brown
2010 - 2012 **Masters project:** *Intermediate Luminosity Transients*, Harvard University, advised by Dr. Edo Berger
2009 - 2010 *PAPER Instrumentation Study*, University of Virginia, advised by Dr. Richard Bradley
2009 - 2010 *ALMA Collaborative Engineering Study*, Santiago, Chile, advised by Kelsey Johnson and Alison Peck
2009 *Circumstellar Disks*, Smithsonian Astrophysical Observatory REU Intern, advised by Dr. Sean Andrews

HONORS AND AWARDS

2013 *Certificate of Distinction in Teaching*, Harvard University
2011 - present *NSF Graduate Research Fellowship*
2006 - 2010 *Jefferson Scholar*, UVA, full scholarship
2006 - 2010 *Rodman Scholar*, UVA
2010 *Outstanding SEAS Student*, UVA
2010 *Louis T. Rader Award for Mechanical and Aerospace Engineering*
School of Engineering and Applied Sciences, UVA
2010 *21 Society Fourth Year Recognition*, UVA
2010 *Limber Award*, UVA Astronomy Department

SELECTED PUBLICATIONS

2. *The Unusually Luminous Extragalactic Nova SN 2010U*
Ian Czekala, E. Berger, R. Chornock, et al.
The Astrophysical Journal, Volume 765, Issue 1, article id. 57, 15 pp. (2013)
1. *Truncated Disks in TW Hya Association Multiple Star Systems*
Andrews, Sean M.; **Czekala, Ian**; Wilner, D. J.; Espaillat, Catherine; Dullemond, C. P.; Hughes, A. M.
The Astrophysical Journal, Volume 710, Issue 1, pp. 462-469 (2010)

CONFERENCE TALKS AND PRESENTATIONS

- Apr 27, 2012 *The Unusually Luminous Extragalactic Nova SN 2010U* talk
at CfA OIR Symposium, Cambridge, MA
- Jan 21 - 27, 2012 *Supernovae Impostors and Pan-STARRS* talk
at Physics of Astronomical Transients, Aspen Center for Physics, Aspen, CO
- Jun 28 - 30, 2011 *The Unusually Luminous Extragalactic Nova SN 2010U* talk
at Intermediate Luminosity Red Transients, Space Telescope Science Institute, Baltimore, MD
- May 22 - 26, 2011 *The Unusually Luminous Extragalactic Nova SN 2010U* poster
at 218th American Astronomical Society Meeting, Boston, MA
- Apr 16, 2010 *PAPER Instrumentation Study* talk
at ACC Meeting of the Minds Conference, Georgia Institute of Technology
- Apr 9 - 10, 2010 *PAPER Instrumentation Study* talk
at AIAA Region I-MA Student Conference, Virginia Institute of Technology
- Jan 3 -7, 2010 *Truncated Disks in TW Hya Multiple Star Systems* poster
at 215th Meeting of the AAS, Washington, D.C.
awarded **Chambliss Student Achievement Award**

SELECTED POSTERS

2. *The Unusually Luminous Extragalactic Nova SN 2010U*
Czekala, Ian; Chornock, R.; Berger, E.; Pastorello, A.; Marion, G. H.; Challis, P.; Wheeler, J. C.; Botticella, M. T.; Smartt, S.; Ergon, M.; Sollerman, J.
American Astronomical Society, AAS Meeting #218, #127.11; Vol. 43, 2011
1. *Truncated Disks in TW Hya Association Multiple Star Systems*
Czekala, Ian; Andrews, Sean
American Astronomical Society, AAS Meeting #215, #428.05; Vol. 42, p.345

WORKSHOPS AND CONFERENCES

- Jun 23 - 28, 2013 *Gordon Research Conference on Origins of Solar Systems*, Mount Holyoke, MA
- May 29 - Jun 5, 2012 *NRAO Summer School on Interferometry and Aperture Synthesis*, Socorro, NM
- Sept 14 - 16, 2011 *NRAO CASA Reduction Workshop*, Socorro, NM
- Sept 18 - 21, 2011 *PAN-STARRS Science Consortium Meeting*, Cambridge, MA
- Aug 24 - 25, 2011 *Derek Bok Teaching Conference*, Harvard University, Cambridge, MA
- Sept 22, 2009 *The Fourth North American ALMA Science Center Conference*, Charlottesville, VA

ACCEPTED P.I. PROPOSALS

- Jun 2013 CfA Optical and Infrared division: *Pre-Main Sequence Models*
3 nights each on 1.5m/TRES and 1.2m/Keplercam

OBSERVING EXPERIENCE

Magellan Clay 6.5 Meter, Las Campanas Observatory, Chile

- Oct 20-21, 2011 *LDSS-3 and MagE GRB host galaxies and supernovae candidates from Pan-STARRS*
- Jan 11-12, 2011 *LDSS-3 GRB host galaxies and supernovae candidates from Pan-STARRS*

Multiple Mirror Telescope 6.5 Meter, Fred Lawrence Whipple Observatory, Arizona

- Nov 26-28, 2011 *BlueChannel Pan-STARRS supernova and variable stars*
- Feb 21-23, 2011 *BlueChannel Pan-STARRS supernova and variable stars*

Commissioning

- Jun - Aug, 2012 *Wavefront Sensor Camera Installation at MMT*

TEACHING

- Jan - May 2013 *Teaching Fellow*, AY 193: Noise and Data Analysis in Astrophysics
Bok Center Certificate of Distinction in Teaching
Wrote and delivered two class lectures
- Jan - May 2013 AY302: *Scientists Teaching Science*, taught by Dr. Phil Sadler
- Sep - Dec 2012 *Teaching Fellow*, AY 17: Galaxies and Cosmology
Bok Center Certificate of Distinction in Teaching

OUTREACH AND SERVICE

- 2012 - 2013 Harvard Undergrad Observing Project (HOP) volunteer
- Apr 28, 2012 Cambridge Explores the Universe, volunteer
- Sep 2011 - Mar 2012 Braintree High School Science Fair Mentor with students
Mr. Joshua Kelleher and Mr. Brendan Newell
- Feb 2011 - Feb 2011 Fauquier County Light Pollution High School Science Project Mentor
with student Ms. Virginia Johnson
- Feb 8, 2012 High Science Fair Judge, East Boston High School
- Oct 26, 2011 Science in the News (SITN) Public Lecture, *The Chemical Enrichment of the Universe*, Boston, MA
- Jul 2011 - present Library Committee Graduate Student Representative, Harvard-Smithsonian CfA Wolbach Library
- Dec 2010 - present *Astrobites* (daily astrophysical literature journal) co-founder and contributing author
- Oct 2009 - Apr 2010 *Dark Skies, Bright Kids* science program, rural Central Virginia

COLLABORATIVE PUBLICATIONS

9. *The UV-bright, Slowly Declining Transient PS1-11af as a Partial Tidal Disruption Event*
Chornock, R.; Berger, E.; Gezari, S.; Zauderer, B. A.; Rest, A.; Chomiuk, L.; Kamble, A.; Soderberg, A. M.; **Czekala, I.** + 28
submitted to *The Astrophysical Journal*, arXiv:1309.3009
8. *PS1-10bzj: A Fast, Hydrogen-poor Superluminous Supernova in a Metal-poor Host Galaxy*
Lunnan, R.; Chornock, R.; Berger, E.; Milisavljevic, D.; Drout, M.; Sanders, N. E.; Challis, P. M.; **Czekala, I.** + 21
The Astrophysical Journal, Volume 771, Issue 2, article id. 97, 13 pp. (2013)
7. *Demographics of the Galaxies Hosting Short-duration Gamma-Ray Bursts*
Fong, W.; Berger, E.; Chornock, R.; Margutti, R.; Levan, A. J.; Tanvir, N. R.; Tunnicliffe, R. L.; **Czekala, I.** + 12
The Astrophysical Journal, Volume 769, Issue 1, article id. 56, 18 pp. (2013)
6. *PS1-10afx at $z = 1.388$: Pan-STARRS1 Discovery of a New Type of Superluminous Supernova*
Chornock, R.; Berger, E.; Rest, A.; Milisavljevic, D.; Lunnan, R.; Foley, R. J.; Soderberg, A. M.; Smartt, S. J.; Burgasser, A. J.; Challis, P.; Chomiuk, L.; **Czekala, I.** + 23
The Astrophysical Journal, Volume 767, Issue 2, article id. 162, 16 pp. (2013)
5. *Preparing Undergraduates for Research Careers: Using Astrobites in the Classroom*
Sanders, Nathan E.; Kohler, Susanna; Newton, Elisabeth; Astrobites Collaboration
Astronomy Education Review, vol. 11, issue 1, p. 010201
4. *A Jet Break in the X-Ray Light Curve of Short GRB 111020A: Implications for Energetics and Rates*
Fong, W.; Berger, E.; Margutti, R.; Zauderer, B. A.; Troja, E.; **Czekala, I.**; Chornock, R.; Gehrels, N.; Sakamoto, T.; Fox, D. B.; Podsiadlowski, P.
The Astrophysical Journal, Volume 756, Issue 2, article id. 189 (2012)
3. *Ultraluminous Supernovae as a New Probe of the Interstellar Medium in Distant Galaxies*
Berger, E.; Chornock, R.; Lunnan, R.; Foley, R.; **Czekala, I.**; + 26
The Astrophysical Journal Letters, Volume 755, Issue 2, article id. L29 (2012)
2. *A Spectroscopic Study of Type Ibc Supernova Host Galaxies from Untargeted Surveys*
Sanders, Nathan E.; Soderberg, Alicia M.; Levesque, Emily M.; Foley, Ryan J.; Chornock, Ryan; Milisavljevic, Dan; Margutti, Raffaella; Berger, Edo; Drout, Maria R.; **Czekala, Ian**; Dittmann, Jason A.
eprint arXiv:1206.2643
1. *Pan-STARRS1 Discovery of Two Ultraluminous Supernovae at $z \approx 0.9$*
Chomiuk, L.; Chornock, R.; Soderberg, A. M.; Berger, E.; Chevalier, R. A.; Foley, R. J.; Huber, M. E.; Narayan, G.;

Rest, A.; Gezari, S.; Kirshner, R. P.; Riess, A.; Rodney, S. A.; Smartt, S. J.; Stubbs, C. W.; Tonry, J. L.; Wood-Vasey, W. M.; Burgett, W. S.; Chambers, K. C.; **Czekala, I.** + 12
The Astrophysical Journal, Volume 743, Issue 2, article id. 114 (2011)

COLLABORATIVE POSTERS

2. *Snapshots of the Universe: A Multi-Lingual Astronomy Art Book*
Beaton, Rachael; Jackson, L.; Carlberg, J.; Johnson, K.; Marchand, R.; Sivakoff, G.; **Czekala, I.**; Damke, G.; Dean, J.; Drosback, M.; Gugliucci, N.; Martinez, O.; Wong, A.; Zasowski, G.; Skies, Dark; Kids, Bright
American Astronomical Society, AAS Meeting #220, #437.13
1. *Astrobites: The Astro-ph Reader's Digest For Undergraduates*
Sanders, Nathan; Newton, E. R.; **Czekala, I.**; Rosenfeld, K.; Dressing, C. D.; Gifford, D.; Suresh, J.; Schneider, E.; Morley, C.; Kohler, S.
American Astronomical Society, AAS Meeting #218, #333.11; Bulletin of the American Astronomical Society, Vol. 43, 2011