

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:** *Protostars and Protoplanets*, Harvard-Smithsonian 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

- 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

## 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*  
Also presented 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; Certificate of Distinction in Teaching*

## OUTREACH AND SERVICE

|                     |   |
|---------------------|---|
| Apr 28, 2012        | Cambridge Explores the Universe, volunteer  |
| Sep 2011 - Mar 2012 | Braintree High School Science Fair Mentor with students<br>Mr. Joshua Kelleher and Mr. Brendan Newell   |
| Feb 2011 - Feb 2011 | Fauquier County Light Pollution High School Science Project Mentor<br>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, <i>The Chemical Enrichment of the Universe</i> , Boston, MA  |
| Jul 2011 - present  | Library Committee Graduate Student Representative, Harvard-Smithsonian CfA Wolbach Library              |
| Dec 2010 - present  | <i>Astrobites</i> (daily astrophysical literature journal) co-founder and contributing author           |
| Oct 2009 - Apr 2010 | <i>Dark Skies, Bright Kids</i> science program, rural Central Virginia                                  |

## COLLABORATIVE PUBLICATIONS

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