

Harvard-Smithsonian Center for Astrophysics
60 Garden Street, MS 10
Cambridge, MA 02138

Office: Perkin 204
Phone: (631)-793-9292
Email: iczekala@cfa.harvard.edu
<https://www.cfa.harvard.edu/~iczekala>

SCIENTIFIC INTERESTS

Transients, classical novae, supernovae, radio interferometry, circumstellar disks.

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 and Astronomy*
Graduation with High Distinction, University of Virginia (UVA), Charlottesville, VA

SCIENTIFIC RESEARCH

2010 - present *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

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 Nova SN 2010U*
Ian Czekala, E. Berger, R. Chornock, et al.
Astrophysical Journal, submitted. [arXiv: /0565335](https://arxiv.org/abs/0565335)
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

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

Sep - Dec 2011 *Teaching Fellow, AY 17: Galaxies and Cosmology*

OUTREACH AND SERVICE

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

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