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## SCIENTIFIC INTERESTS

Protoplanetary disks, exoplanets, star and planet formation, astrostatistics, radio interferometry, spectroscopy

## EDUCATION

- 2012 - 2016 *Ph.D. in Astrophysics, Harvard University, Cambridge, MA*  
advisor Sean M. Andrews
- 2010 - 2012 *Masters of Arts in Astronomy and Astrophysics, Harvard University*  
advisor Edo Berger
- 2006 - 2010 *Bachelor of Science, Aerospace Engineering, Astronomy*  
Graduation with High Distinction, University of Virginia (UVA), Charlottesville, VA

## SCIENTIFIC RESEARCH

- 2016 - present *Disk and Stellar Dynamics of Pre-Main Sequence Systems*, Postdoctoral Advisor Bruce Macintosh
- 2013 - 2016 **Ph.D. Thesis:** *The Fundamental Properties of Young Stars*, CfA, advised by Sean Andrews
- 2012 *MMTCam Commissioning*, Harvard-Smithsonian CfA, advised by Warren Brown
- 2010 - 2012 **Masters project:** *Intermediate Luminosity Transients*, Harvard University, advised by Edo Berger
- 2009 - 2010 *PAPER Instrumentation Study*, University of Virginia, advised by 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

## PROFESSIONAL APPOINTMENTS

- 2016 - present Porat Postdoctoral Fellow  
Kavli Institute for Particle Astrophysics and Cosmology, Stanford University
- 2010 - 2016 Graduate Student  
Harvard University

## HONORS AND AWARDS

- 2013, 2014 (2) *Certificates of Distinction in Teaching*, Harvard University
- 2011 - 2016 *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

## REFEREED PUBLICATIONS

First author: 6 / total: 26 / citations: 1014 / h-index: 15 / (2017-09-15) [[link](#)]

## FIRST AND SECOND AUTHOR PUBLICATIONS

- [1] *Disentangling Time-series Spectra with Gaussian Processes: Applications to Radial Velocity Analysis*, **Czekala, Ian**, Mandel, K. S., Andrews, S. M., Dittmann, J. A., Ghosh, S. K., Montet, B. T., and Newton, E. R. 2017, [ApJ](#), **840**, 49
- [2] *The Architecture of the GW Ori Young Triple-star System and Its Disk: Dynamical Masses, Mutual Inclinations, and Recurrent Eclipses*, **Czekala, Ian**, Andrews, S. M., Torres, G., Rodriguez, J. E., Jensen, E. L. N., Stassun, K. G., Latham, D. W., Wilner, D. J., Gully-Santiago, M. A., Grankin, K. N., Lund, M. B., Kuhn, R. B., Stevens, D. J., Siverd, R. J., James, D., Gaudi, B. S., Shappee, B. J., and Holoiën, T. W.-S. 2017, [ApJ](#), **851**, 132
- [3] *A Disk-based Dynamical Constraint on the Mass of the Young Binary DQ Tau*, **Czekala, Ian**, Andrews, S. M., Torres, G., Jensen, E. L. N., Stassun, K. G., Wilner, D. J., and Latham, D. W. 2016, [ApJ](#), **818**, 156
- [4] *A Disk-based Dynamical Mass Estimate for the Young Binary AK Sco*, **Czekala, Ian**, Andrews, S. M., Jensen, E. L. N., Stassun, K. G., Torres, G., and Wilner, D. J. 2015, [ApJ](#), **806**, 154
- [5] *Constructing a Flexible Likelihood Function for Spectroscopic Inference*, **Czekala, Ian**, Andrews, S. M., Mandel, K. S., Hogg, D. W., and Green, G. M. 2015, [ApJ](#), **812**, 128
- [6] *The Unusually Luminous Extragalactic Nova SN 2010U*, **Czekala, Ian**, Berger, E., Chornock, R., Pastorello, A., Marion, G. H., Margutti, R., Botticella, M. T., Challis, P., Ergon, M., Smartt, S., Sollerman, J., Vinkó, J., and Wheeler, J. C. 2013, [ApJ](#), **765**, 57
- [7] *Truncated Disks in TW Hya Association Multiple Star Systems*, Andrews, S. M., **Czekala, Ian**, Wilner, D. J., Espaillat, C., Dullemond, C. P., and Hughes, A. M. 2010, [ApJ](#), **710**, 462

## MANY-AUTHOR PUBLICATIONS

- [1] *ALMA Measurements of Circumstellar Material in the GQ Lup System*, MacGregor, M. A., Wilner, D. J., **Czekala, Ian**, Andrews, S. M., Dai, Y. S., Herczeg, G. J., Kratter, K. M., Kraus, A. L., Ricci, L., and Testi, L. 2017, [ApJ](#), **835**, 17
- [2] *ALMA Observations of the Young Substellar Binary System 2M1207*, Ricci, L., Cazzoletti, P., **Czekala, Ian**, Andrews, S. M., Wilner, D., Szűcs, L., Lodato, G., Testi, L., Pascucci, I., Mohanty, S., Apai, D., Carpenter, J. M., and Bowler, B. P. 2017, [AJ](#), **154**, 24
- [3] *Characterizing 51 Eri b from 1 to 5  $\mu$ m: A Partly Cloudy Exoplanet*, Rajan, A., Rameau, J., De Rosa, R. J., Marley, M. S., Graham, J. R., Macintosh, B., Marois, C., Morley, C., Patience, J., Pueyo, L., Saumon, D., Ward-Duong, K., Ammons, S. M., Arriaga, P., Bailey, V. P., Barman, T., Bulger, J., Burrows, A. S., Chilcote, J., Cotten, T., **Czekala, Ian**, Doyon, R., Duchêne, G., Esposito, T. M., Fitzgerald, M. P., Follette, K. B., Fortney, J. J., Goodsell, S. J., Greenbaum, A. Z., Hibon, P., Hung, L.-W., Ingraham, P., Johnson-Groh, M., Kalas, P., Konopacky, Q., Lafrenière, D., Larkin, J. E., Maire, J., Marchis, F., Metchev, S., Millar-Blanchaer, M. A., Morzinski, K. M., Nielsen, E. L., Oppenheimer, R., Palmer, D., Patel, R. I., Perrin, M., Poyneer, L., Rantakyö, F. T., Ruffio, J.-B., Savransky, D., Schneider, A. C., Sivaramakrishnan, A., Song, I., Soummer, R., Thomas, S., Vasisht, G., Wallace, J. K., Wang, J. J., Wiktorowicz, S., and Wolff, S. 2017, [AJ](#), **154**, 10
- [4] *Improving and Assessing Planet Sensitivity of the GPI Exoplanet Survey with a Forward Model Matched Filter*, Ruffio, J.-B., Macintosh, B., Wang, J. J., Pueyo, L., Nielsen, E. L., De Rosa, R. J., **Czekala, Ian**, Marley, M. S., Arriaga, P., Bailey, V. P., Barman, T., Bulger, J., Chilcote, J., Cotten, T., Doyon, R., Duchêne, G., Fitzgerald, M. P., Follette, K. B., Gerard, B. L., Goodsell, S. J., Graham, J. R., Greenbaum, A. Z., Hibon, P., Hung, L.-W., Ingraham, P., Kalas, P., Konopacky, Q., Larkin, J. E., Maire, J., Marchis, F., Marois, C., Metchev, S., Millar-Blanchaer, M. A., Morzinski, K. M., Oppenheimer, R., Palmer, D., Patience, J., Perrin, M., Poyneer, L., Rajan, A., Rameau, J., Rantakyö, F. T., Savransky, D., Schneider, A. C., Sivaramakrishnan, A., Song, I., Soummer, R., Thomas, S., Wallace, J. K., Ward-Duong, K., Wiktorowicz, S., and Wolff, S. 2017, [ApJ](#), **842**, 14

- [5] *Placing the Spotted T Tauri Star LkCa 4 on an HR Diagram*, Gully-Santiago, M. A., Herczeg, G. J., **Czekala, Ian**, Somers, G., Grankin, K., Covey, K. R., Donati, J. F., Alencar, S. H. P., Hussain, G. A. J., Shappee, B. J., Mace, G. N., Lee, J.-J., Holoiën, T. W.-S., Jose, J., and Liu, C.-F. 2017, *ApJ*, **836**, 200
- [6] *The Coupled Physical Structure of Gas and Dust in the IM Lup Protoplanetary Disk*, Cleves, L. I., Öberg, K. I., Wilner, D. J., Huang, J., Loomis, R. A., Andrews, S. M., and **Czekala, Ian** 2016, *ApJ*, **832**, 110
- [7] *The Intermediate Luminosity Optical Transient SN 2010da: The Progenitor, Eruption, and Aftermath of a Peculiar Super-giant High-mass X-Ray Binary*, Villar, V. A., Berger, E., Chornock, R., Margutti, R., Laskar, T., Brown, P. J., Blanchard, P. K., **Czekala, Ian**, Lunnan, R., and Reynolds, M. T. 2016, *ApJ*, **830**, 11
- [8] *Cosmological Constraints from Measurements of Type Ia Supernovae Discovered during the First 1.5 yr of the Pan-STARRS1 Survey*, Rest, A., Scolnic, D., Foley, R. J., Huber, M. E., Chornock, R., Narayan, G., Tonry, J. L., Berger, E., Soderberg, A. M., Stubbs, C. W., Riess, A., Kirshner, R. P., Smartt, S. J., Schlafly, E., Rodney, S., Botticella, M. T., Brout, D., Challis, P., **Czekala, Ian**, Drout, M., Hudson, M. J., Kotak, R., Leibler, C., Lunnan, R., Marion, G. H., McCrum, M., Milisavljevic, D., Pastorello, A., Sanders, N. E., Smith, K., Stafford, E., Thilker, D., Valenti, S., Wood-Vasey, W. M., Zheng, Z., Burgett, W. S., Chambers, K. C., Denneau, L., Draper, P. W., Flewelling, H., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., Metcalfe, N., Price, P. A., Sweeney, W., Wainscoat, R., and Waters, C. 2014, *ApJ*, **795**, 44
- [9] *High-density Circumstellar Interaction in the Luminous Type II<sub>n</sub> SN 2010jl: The First 1100 Days*, Fransson, C., Ergon, M., Challis, P. J., Chevalier, R. A., France, K., Kirshner, R. P., Marion, G. H., Milisavljevic, D., Smith, N., Bufano, F., Friedman, A. S., Kangas, T., Larsson, J., Mattila, S., Benetti, S., Chornock, R., **Czekala, Ian**, Soderberg, A., and Sollerman, J. 2014, *ApJ*, **797**, 118
- [10] *Systematic Uncertainties Associated with the Cosmological Analysis of the First Pan-STARRS1 Type Ia Supernova Sample*, Scolnic, D., Rest, A., Riess, A., Huber, M. E., Foley, R. J., Brout, D., Chornock, R., Narayan, G., Tonry, J. L., Berger, E., Soderberg, A. M., Stubbs, C. W., Kirshner, R. P., Rodney, S., Smartt, S. J., Schlafly, E., Botticella, M. T., Challis, P., **Czekala, Ian**, Drout, M., Hudson, M. J., Kotak, R., Leibler, C., Lunnan, R., Marion, G. H., McCrum, M., Milisavljevic, D., Pastorello, A., Sanders, N. E., Smith, K., Stafford, E., Thilker, D., Valenti, S., Wood-Vasey, W. M., Zheng, Z., Burgett, W. S., Chambers, K. C., Denneau, L., Draper, P. W., Flewelling, H., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., Metcalfe, N., Price, P. A., Sweeney, W., Wainscoat, R., and Waters, C. 2014, *ApJ*, **795**, 45
- [11] *The superluminous supernova PS1-11ap: bridging the gap between low and high redshift*, McCrum, M., Smartt, S. J., Kotak, R., Rest, A., Jerkstrand, A., Inserra, C., Rodney, S. A., Chen, T.-W., Howell, D. A., Huber, M. E., Pastorello, A., Tonry, J. L., Bresolin, F., Kudritzki, R.-P., Chornock, R., Berger, E., Smith, K., Botticella, M. T., Foley, R. J., Fraser, M., Milisavljevic, D., Nicholl, M., Riess, A. G., Stubbs, C. W., Valenti, S., Wood-Vasey, W. M., Wright, D., Young, D. R., Drout, M., **Czekala, Ian**, Burgett, W. S., Chambers, K. C., Draper, P., Flewelling, H., Hodapp, K. W., Kaiser, N., Magnier, E. A., Metcalfe, N., Price, P. A., Sweeney, W., and Wainscoat, R. J. 2014, *MNRAS*, **437**, 656
- [12] *The Ultraviolet-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, Ian**, Dittmann, J., Drout, M., Foley, R. J., Fong, W., Huber, M. E., Kirshner, R. P., Lawrence, A., Lunnan, R., Marion, G. H., Narayan, G., Riess, A. G., Roth, K. C., Sanders, N. E., Scolnic, D., Smartt, S. J., Smith, K., Stubbs, C. W., Tonry, J. L., Burgett, W. S., Chambers, K. C., Flewelling, H., Hodapp, K. W., Kaiser, N., Magnier, E. A., Martin, D. C., Neill, J. D., Price, P. A., and Wainscoat, R. 2014, *ApJ*, **780**, 44
- [13] *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, Ian**, Fox, D. B., Perley, D. A., Cenko, S. B., Zauderer, B. A., Laskar, T., Persson, S. E., Monson, A. J., Kelson, D. D., Birk, C., Murphy, D., Servillat, M., and Anglada, G. 2013, *ApJ*, **769**, 56
- [14] *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, Ian**, Drout, M., Fong, W., Huber, M. E., Kirshner, R. P., Leibler, C., McLeod, B., Marion, G. H., Narayan, G., Riess, A. G., Roth, K. C., Sanders, N. E., Scolnic, D., Smith, K., Stubbs, C. W., Tonry, J. L., Valenti, S., Burgett, W. S., Chambers, K. C., Hodapp, K. W., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., and Price, P. A. 2013, *ApJ*, **767**, 162

- [15] *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, Ian**, Foley, R. J., Fong, W., Huber, M. E., Kirshner, R. P., Leibler, C., Marion, G. H., McCrum, M., Narayan, G., Rest, A., Roth, K. C., Scolnic, D., Smartt, S. J., Smith, K., Soderberg, A. M., Stubbs, C. W., Tonry, J. L., Burgett, W. S., Chambers, K. C., Kudritzki, R.-P., Magnier, E. A., and Price, P. A. 2013, [ApJ, 771, 97](#)
- [16] *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, Ian**, Chornock, R., Gehrels, N., Sakamoto, T., Fox, D. B., and Podsiadlowski, P. 2012, [ApJ, 756, 189](#)
- [17] *A Spectroscopic Study of Type Ibc Supernova Host Galaxies from Untargeted Surveys*, Sanders, N. E., Soderberg, A. M., Levesque, E. M., Foley, R. J., Chornock, R., Milisavljevic, D., Margutti, R., Berger, E., Drout, M. R., **Czekala, Ian**, and Dittmann, J. A. 2012, [ApJ, 758, 132](#)
- [18] *Ultraluminous Supernovae as a New Probe of the Interstellar Medium in Distant Galaxies*, Berger, E., Chornock, R., Lunnan, R., Foley, R., **Czekala, Ian**, Rest, A., Leibler, C., Soderberg, A. M., Roth, K., Narayan, G., Huber, M. E., Milisavljevic, D., Sanders, N. E., Drout, M., Margutti, R., Kirshner, R. P., Marion, G. H., Challis, P. J., Riess, A. G., Smartt, S. J., Burgett, W. S., Hodapp, K. W., Heasley, J. N., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., McCrum, M., Price, P. A., Smith, K., Tonry, J. L., and Wainscoat, R. J. 2012, [ApJ, 755, L29](#)
- [19] *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, Ian**, Flewelling, H., Forster, K., Kaiser, N., Kudritzki, R.-P., Magnier, E. A., Martin, D. C., Morgan, J. S., Neill, J. D., Price, P. A., Roth, K. C., Sanders, N. E., and Wainscoat, R. J. 2011, [ApJ, 743, 114](#)

#### MANUSCRIPT PREPRINTS

- [1] *Hydrogen-Poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey*, Lunnan, R., Chornock, R., Berger, E., Jones, D. O., Rest, A., **Czekala, Ian**, Dittmann, J., Drout, M. R., Foley, R. J., Fong, W., Kirshner, R. P., Laskar, T., Leibler, C. N., Margutti, R., Milisavljevic, D., Narayan, G., Pan, Y.-C., Riess, A. G., Roth, K. C., Sanders, N. E., Scolnic, D., Smartt, S. J., Smith, K. W., Chambers, K. C., Draper, P. W., Flewelling, H., Huber, M. E., Kaiser, N., Kudritzki, R. P., Magnier, E. A., Metcalfe, N., Wainscoat, R. J., Waters, C., and Willman, M. 2017, ArXiv e-prints, [arXiv:1708.01619 \[astro-ph.HE\]](#)

#### STUDENTS ADVISED

- Mr. Joseph Michael Akana Murphy, Stanford University Undergraduate Summer Research and Senior Thesis; 2017 - present  
*Unveiling the Spectra of Young Stars with Gaussian Processes: Applications to LkCa 15*

INVITED RESEARCH TALKS AND PRESENTATIONS

- Jan 10, 2018 AAS Special Session on Gaussian Processes and Machine Learning, Washington, D.C.  
*Using Gaussian Processes to Construct Flexible Models of Stellar Spectra*
- Oct 18, 2017 CIPS Planet and Star Formation Seminar, UC Berkeley, CA  
*Protoplanetary Disks around Pre-Main Sequence Binary Stars*
- June 1, 2017 NAOJ Star and Planet Formation Seminar, NAOJ, Tokyo, Japan  
*Protoplanetary Disks around Pre-Main Sequence Binary Stars*
- May 31, 2017 RIKEN Star and Planet Formation Seminar, RIKEN, Tokyo, Japan  
*Protoplanetary Disks around Pre-Main Sequence Binary Stars*
- May 25, 2017 Kavli Institute for Astronomy and Astrophysics Colloquium, Peking University, Beijing, China  
*Protoplanetary Disks around Pre-Main Sequence Binary Stars*
- May 16, 2017 Harvard Astrostatistics Seminar, Harvard University, Cambridge, MA  
*Disentangling Spectra With Gaussian Processes: Applications to Radial Velocity Analysis*
- Aug 23, 2016 SAMSI Astrostatistics Opening Workshop, Research Triangle Park, NC  
*Systematics-Dominated Spectroscopic Inference*
- Jul 20, 2016 ASIAA Colloquium, Taipei, Taiwan  
*The Fundamental Properties of Young Stars*
- Jul 5, 2016 ASIAA Star Formation Meeting, Taipei, Taiwan  
*Disk-Based Dynamical Masses and Applications with the SMA*
- Jun 9, 2016 Kavli Institute for Astronomy and Astrophysics Lunch Seminar, Peking University, Beijing, China  
*The Fundamental Properties of Young Stars*
- Mar 8, 2016 CfA Exoplanet Lunch, Harvard-Smithsonian Center for Astrophysics  
*Using Protoplanetary Disks to Precisely Weigh Stars*
- Feb 9, 2016 BU Lunch Talk, Boston University, Boston, MA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Dec 10-11, 2015 ISM Seminar at UT Austin, Austin, TX  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Dec 7-8, 2015 Tea Talk at Caltech, Pasadena, CA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Nov 17, 2015 KIPAC Tea Talk at Stanford University, Palo Alto, CA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Nov 16, 2015 ACES talk at NASA Ames, Mountain View, CA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Nov 12-13, 2015 FLASH talk at UC Santa Cruz, Santa Cruz, CA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Nov 4, 2015 CIPS Planet and Star Formation Seminar, UC Berkeley, CA  
*Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*
- Apr 22, 2015 CIPS Planet and Star Formation Seminar, UC Berkeley, CA  
*Flexible Spectroscopic Inference for Young Stars*
- Apr 14, 2015 Astrostatistics Seminar, Statistics Department, Harvard University, MA  
*Flexible Spectroscopic Inference*

## CONTRIBUTED RESEARCH TALKS AND PRESENTATIONS

Oct 9, 2018	AAS meeting, Washington, D.C. <i>Mutual Inclinations of Circumbinary Protoplanetary Disks</i>
Dec 13, 2017	Exoplanets and Planet Formation, Shanghai, China <i>Mutual Inclinations of Circumbinary Protoplanetary Disks</i>
Dec 1, 2017	Bay Area Exoplanet Meeting, NASA Ames, Mountain View, CA <i>Mutual Inclinations of Circumbinary Protoplanetary Disks</i>
Aug 22, 2017	Exoclipse Conference, Boise State University, Boise, ID <i>Disentangling Stellar Spectra with Gaussian Processes: Applications to Radial Velocity Analysis</i>
Mar 3, 2017	Bay Area Exoplanet Meeting, NASA Ames, Mountain View, CA <i>Disentangling Stellar Spectra with Gaussian Processes: Applications to Radial Velocity Analysis</i>
Oct 17-28, 2016	SAMSI Exoplanet Workshop, Research Triangle Park, NC <i>Modeling Stellar Spectra with Gaussian Processes</i>
Jan 7, 2016	Dissertation talk, AAS Winter Meeting, Kissimmee, FL <i>Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution</i>
Oct 19-21, 2015	Fitting Stars, CMDs, and Galaxies, Rockport, MA <i>Constructing a Likelihood Function for Spectroscopic Inference</i>
Sep 18, 2015	Bay Area Exoplanet Science Meeting, The SETI Institute, Mountain View, CA <i>Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution</i>
May 28-29, 2015	Emerging Researchers in Exoplanet Science Symposium, The Pennsylvania State University <i>Accessing the Fundamental Properties of Young Stars</i>
Jun 18-21, 2014	ExoStat 2014, Carnegie Mellon University, PA <i>Fitting Stellar Spectra With Some Help From Gaussian Processes</i>
Apr 27, 2012	CfA OIR Symposium, Cambridge, MA <i>The Unusually Luminous Extragalactic Nova SN 2010U</i>
Jan 21 - 27, 2012	Physics of Astronomical Transients, Aspen Center for Physics, Aspen, CO <i>Supernovae Impostors and Pan-STARRS</i>
Jun 28 - 30, 2011	Intermediate Luminosity Red Transients, Space Telescope Science Institute, Baltimore, MD <i>The Unusually Luminous Extragalactic Nova SN 2010U</i>
Apr 16, 2010	ACC Meeting of the Minds Conference, Georgia Institute of Technology <i>Precision Array to Probe the Epoch of Reionization (PAPER) Instrumentation Study</i>
Apr 9 - 10, 2010	AIAA Region I-MA Student Conference, Virginia Institute of Technology <i>Precision Array to Probe the Epoch of Reionization (PAPER) Instrumentation Study</i>

## SUCCESSFUL P.I. PROPOSALS

Aug 2016	ALMA Cycle 4: <i>Resolving the AK Sco Circumbinary Disk</i> 1 hour Band 6
Oct 2014	CfA Optical and Infrared division: <i>Pre-Main Sequence Models</i> 1 night on Magellan/MIKE
Jun 2014	CfA Optical and Infrared division: <i>Determining the Systematic Error of Veiling</i> 3 nights each on 1.5m/TRES and 1.2m/Keplercam
Oct 2013	CfA Optical and Infrared division: <i>Pre-Main Sequence Models</i> 1 night on Magellan/MIKE
Jun 2013	CfA Optical and Infrared division: <i>Pre-Main Sequence Models</i> 3 nights each on 1.5m/TRES and 1.2m/Keplercam



## SELECTED POSTERS

5. *Using Protoplanetary Disks to Weigh the Youngest Stars and Constrain The Earliest Stages of Stellar Evolution*  
**Ian Czekala**, S. M. Andrews, E. L. N. Jensen, K. G. Stassun, D. Latham, D. J. Wilner, & G. Torres  
Extreme Solar Systems III Conference, Waikoloa Village, HI, Nov 29 - 4, 2015
4. *A Disk-based Dynamical Mass Estimate for the Young Binary AK Sco*  
**Ian Czekala**, S. M. Andrews, E. L. N. Jensen, K. G. Stassun, G. Torres, & D. J. Wilner  
2015 Gordon Research Conference on Origins of Solar Systems, Mount Holyoke, MA
3. *A Novel Tool for the Spectroscopic Inference of Fundamental Stellar Parameters*  
**Czekala, Ian**; Andrews, Sean M.; Latham, David W.; Torres, Guillermo  
Summer AAS Meeting #224 #322.01, Boston, MA
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 awarded **Chambliss Student Achievement Award**

## WORKSHOPS AND CONFERENCES

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

## OPEN SOURCE CODE PACKAGES

PSOAP	Disentangling of Stellar Spectra for Radial Velocity Analysis <a href="https://github.com/iancze/PSOAP">https://github.com/iancze/PSOAP</a> ASCL: <a href="http://adsabs.harvard.edu/abs/2017ascl.soft05013C">http://adsabs.harvard.edu/abs/2017ascl.soft05013C</a>
DiskJockey	UV plane modeling of sub-mm interferometric protoplanetary disk observations <a href="https://github.com/iancze/DiskJockey">https://github.com/iancze/DiskJockey</a> ASCL: <a href="http://adsabs.harvard.edu/abs/2016ascl.soft03011C">http://adsabs.harvard.edu/abs/2016ascl.soft03011C</a>
Starfish	Modular tools for spectroscopic inference <a href="http://iancze.github.io/Starfish/">http://iancze.github.io/Starfish/</a> ASCL: <a href="http://adsabs.harvard.edu/abs/2015ascl.soft05007C">http://adsabs.harvard.edu/abs/2015ascl.soft05007C</a>

## OBSERVING EXPERIENCE

*Magellan Clay 6.5 Meter, Las Campanas Observatory, Chile*

Jul 3-4, 2015	<i>MIKE Pre-Main Sequence Models</i>
May 22-23, 2014	<i>MIKE Pre-Main Sequence Models</i>
Oct 20-21, 2011	<i>LDSS-3 and MagE GRB host galaxies and supernovae candidates from Pan-STARRS</i>
Jan 11-12, 2011	<i>LDSS-3 GRB host galaxies and supernovae candidates from Pan-STARRS</i>

*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 *MMTCam* commissioning and installation at MMT

*The Submillimeter Array Interferometer, Mauna Kea, Hawaii*

Feb 20-24, 2014 SMA queue observing  
Nov 6 - 10, 2014 SMA queue observing  
Jan 14 - 20, 2015 SMA queue observing

*Gemini Planet Imager (GPI), Gemini South, Chile*

Nov 16-18, 2016 GPI Exoplanet Survey

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

2017 - present Stanford KIPAC Colloquium Committee  
Aug 2016 Montauk Observatory Public Lecture, Montauk, NY  
*East End Dark Skies Spark a Career in Astrophysics*  
Dec 2016 Bay Area Exoplanet Meeting LOC  
2016 - present Referee for the *Astrophysical Journal*  
2013 - 2015 Harvard Astronomy Department Peer mentor  
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 2012 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 - 2015 Library Committee Graduate Student Representative, Harvard-Smithsonian CfA Wolbach Library  
Dec 2010 - 2015 *Astrobites* (daily astrophysical literature journal) co-founder and contributing author  
Oct 2009 - Apr 2010 *Dark Skies, Bright Kids* science program, rural Central Virginia



## 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

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Professor Kelsey Johnson	University of Virginia (kej7a@virginia.edu)