

# PETER J. BROWN

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## Office Address

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## Contact Information

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## Highlights

- Observational Astronomer with experience in ground and space-based Ultraviolet and Optical Photometry and Spectroscopy of Supernovae and other Transients
- **Leader of Swift supernova team since 2005 and Swift Cycle 14 Key Project**
- Principal Investigator of External Grants Totaling **\$1,048,810**
- **15** refereed First Author Journal Articles, **110+** Coauthored Journal Articles
- 2017 Texas A&M College of Science **Undergraduate Research Mentoring Award**

## Research Experience

<b>Visiting Assistant Professor – Texas A&amp;M University</b>	2018 – Present
<b>Research Scientist – Mitchell Institute, Texas A&amp;M University</b>	2016 – 2018
<b>Postdoctoral Research Associate</b>	2012 – 2016
Supervisor: Professor Lifan Wang	

- Principal Investigator (PI) of two NASA Astrophysics Data Analysis Program with **\$754K** in grant funding for archival studies of ultraviolet supernova data
- PI on HST Cycle 23 and 24 programs to obtain ultraviolet spectroscopy of one ultraviolet-bright and one “normal” type Ia supernova (with **\$149K** in funding).
- Aggie Research Leader of a multi-disciplinary team of five undergraduates building core-collapse supernova templates for cosmological simulations
- Mentored graduate student on successful Swift Cycle 10 & 11 Guest Investigator grants to obtain ultraviolet spectra with Swift’s Ultraviolet/Optical Telescope (UVOT)
- PI of Swift Cycle 11 Guest Investigator grant for observations and analysis of Superluminous Supernovae, resulting in the discovery of the ultraviolet rebrightening of ASASSN-15lh, and a successful HST DDT proposal for ultraviolet spectroscopy (and \$58K in funding)
- PI of Swift Cycle 9 Guest Investigator grant for studying type Ia supernovae in the nearby Hubble flow with Swift and the Carnegie Supernova Project (with \$37K in funding)
- Spectroscopically confirmed Dark Energy Survey supernovae with the Hobby-Eberly Telescope

<b>Postdoctoral Research Associate – University of Utah</b>	2009 – 2012
Supervisor: Professor Kyle Dawson	

- Co-mentored graduate student Matt Olmstead on supernova host galaxy portion of thesis
- Assisted with instrument commissioning for SDSS-III/BOSS (Sloan Digital Sky Survey; Baryon Oscillation Spectroscopic Survey)
- Analyzed BOSS spectra of SDSS supernova host galaxies
- PI of two Swift Guest Investigator grants to study correlations between ultraviolet properties of type Ia supernovae and their host galaxies

<b>Graduate Research Assistant – Pennsylvania State University</b>	2004 – 2009
Supervisor: Dr. P. W. A. Roming	

- Coordinated and analyzed ultraviolet observations of supernovae
- Wrote three successful Swift Guest Investigator proposals (as Science PI) to study type Ia supernovae in the ultraviolet
- Responded in real-time to gamma ray burst alerts and analyzed UVOT observations
- Initiated the creation of new observing modes and assisted with UVOT calibration

<b>Education</b>	<b>Pennsylvania State University</b>	August 2009
	<b>Ph.D. in Astronomy &amp; Astrophysics</b> Thesis Title: “The Ultraviolet Properties of Supernovae” Thesis Advisor: Dr. P. W. A. Roming	
	<b>Brigham Young University</b>	August 2004
	<b>B.S. in Physics and Astronomy</b> Senior Thesis Title: “Observing Gamma Ray Burst Afterglows from BYU’s Orson Pratt Observatory” Thesis Advisor: Professor J. W. Moody	
<b>Teaching Experience</b>	<b>ASTR101 Visiting Assistant Professor, Texas A&amp;M</b>	Spring 2018
	Teaching “Basic Astronomy ASTR101 to a class of 104 students using The Essential Cosmic Perspective with Pearson online homework along with self-made self-reflection and observing projects.	
	<b>ASTR111 Lab Coordinator, Texas A&amp;M</b>	2015-2016
	Supervised the graduate student assistants teaching the ASTR111 labs, trained in the lab instruction, taught labs as needed, maintained lab manuals, telescopes, and other equipment, coordinated class schedules with department and instructors	
	<b>Substitute/Guest Instructor, Texas A&amp;M, Penn State University, U. of Utah, Utah Valley State College</b>	2004-2017
	Substituted or gave guest lectures for large undergraduate classes	
	<b>Teaching Assistant, Pennsylvania State University</b>	Fall 2004
	Astronomy 011 “Elementary Astronomy Lab” – Independently led lab-based course, taught class lectures, gave lab demonstrations, held office hours, graded assignments, and assigned final grades	
	<b>Teaching Assistant, Brigham Young University</b>	2003 – 2004
	Physics 329 “Astronomical Observing” – taught and supervised use of the on campus telescopes and CCDs, IRAF data reduction, and period analysis of short-period variable stars	
	Physics 127 “Introductory Astronomy” – taught constellations in the night sky and planetarium, conducted review sessions, assisted with and graded observation project reports	
<b>Mentoring Experience</b>	<b>Recipient of 2017 Texas A&amp;M College of Science Undergraduate Research Mentoring Award</b>	

#### **Mentored Undergraduate (UG) and Graduate (G) Students**

Graduate students were formally advised by their faculty advisor but mentored by Dr. Brown

- Katya Leigig (UG/REU: 2018) – IIB or not IIB? Archive Light curves and template generation
- Aggienova Research Team (UG: Fall 2017) Srinivas Tankasala, Alci-Lou Pena, Mark Turpen, Noah McHugh, Britton Beeny, Cooper Dix, Ethan Viera – Creating the AggieNova spectral template series
- Sarah Walker (UG/REU: 2017) – UVOT photometry and SN Ia light curve fitting
- Tate Walker (UG: 2017-2018) – contamination of reddening maps by nearby galaxies
- Britton Beeny (UG: 2016-2017) – Host Galaxy Photometry and Morphology, Data retrieval, template generation
- Cooper Dixon (UG: 2017) – SED creation
- Andrew Quick (G: 2014-2017) – Ultraviolet photometry of type IIP supernovae
- Yi Yang (G: 2014-current) – HST Imaging Polarimetry, Supernova dust reddening, Ultraviolet studies of supernova galaxies
- Aggienova Research Team (UG: Spring 2017) Britton Beeny, Cooper Dix, Ethan Viera, Leslie Laguna, Javier Romero – Creating Core-Collapse Supernova Templates for Cosmological Simulations

- Madison Smith (UG/REU: 2016) – Machine Learning and Photometric Classification of Supernovae with Ultraviolet Photometry
- Nancy Landez (UG: 2016) – Disentangling Red and Reddened SNe Ia
- Mike Smitka (G: 2013-2016) – Ultraviolet spectroscopy and bolometric light curves of SNe Ia
- Shiqing Zhang (UG: fall 2015) – database of supernova host galaxy properties
- Joanna Schiefelbein (UG: summer 2014) – producing Swift UV photometry of 100+ supernovae
- Ben Forrest (G: 2013-2014) – color-magnitude diagrams of type Ia supernovae
- Matt Olmstead (G: 2009-2012) – host galaxy spectroscopy of Sloan supernovae

<b>Funded Grant Proposals</b>  <b>Total &gt; \$ 1.1 M</b>	SUPERNOVA KEY PROJECT: SWIFT RESPONSE TO NEARBY SUPERNOVAE PI – NASA Swift Guest Investigator Program, Cycle 14 – \$100,000	2018-2019
	SEEING CORE-COLLAPSE SUPERNOVAE IN THE ULTRAVIOLET PI – NASA Astrophysics Data Analysis Program, 2016 – \$478,291	2017-2019
	ULTRAVIOLET SPECTRA OF A NORMAL STANDARD CANDLE PI – Hubble Space Telescope Cycle 24 GO #14665– \$87,896	2016-2017
	ULTRAVIOLET SPECTROSCOPY OF THE UNPRECEDENTED REBRIGHTENING OF THE MOST LUMINOUS SUPERNOVA PI – Hubble Space Telescope Cycle 23 DDT #14450– \$18,449	2015-2016
	AN ULTRAVIOLET VIEW OF OVERLUMINOUS TYPE IA SUPERNOVAE PI – Hubble Space Telescope Cycle 23 GO #14144– \$61,169	2015-2016
	ULTRAVIOLET PROPERTIES OF SUPERLUMINOUS SUPERNOVAE OVER TEN BILLION YEARS PI – Swift Guest Investigator program, Cycle 11 – \$40,000	2015-2016
	DECONTAMINATING THE SWIFT UV-GRISM SAMPLE OF SNe Ia TO MEASURE THE UV DIVERSITY Co-I – Swift Guest Investigator program, Cycle 11 (PI – N. Suntzeff, Texas A&M) Led by Graduate student M. Smitka	2015-2016
	UNDERSTANDING SUPERNOVAE WITH A SWIFT ULTRAVIOLET ARCHIVE PI – NASA Astrophysics Data Analysis Program, 2012 – \$276,007	2013-2017
	SWIFT ULTRAVIOLET SPECTROSCOPY OF SUPERLUMINOUS AND 2002CX-LIKE TYPE IA SUPERNOVAE Co-I – Swift Guest Investigator program, Cycle 10 (PI – N. Suntzeff, Texas A&M) Led by Graduate student M. Smitka	2014-2015
	IMPROVING TYPE IA SUPERNOVAE AS STANDARD CANDLES BY CORRELATING THE ULTRAVIOLET AND OPTICAL PROPERTIES PI – Swift Guest Investigator program, Cycle 9 – \$37,000	2013-2014
	IMPROVING STANDARD CANDLES THROUGH ULTRAVIOLET STUDIES: THE EFFECT OF HOST GALAXY ENVIRONMENT ON TYPE IA SUPERNOVAE PI – Swift Guest Investigator program, Cycle 7 – \$15,000	2010-2011
	ULTRA-VIOLET EFFECTS OF ENVIRONMENT ON TYPE IA SUPERNOVAE PI – Swift Guest Investigator program, Cycle 6 – \$34,998	2009-2010
	ENVIRONMENTAL EFFECTS ON TYPE IA SUPERNOVAE AS STANDARD CANDLES IN THE ULTRA-VIOLET Science PI – Swift Guest Investigator program, Cycles 3,4,5	2006-2009

<b>Observing Proposals</b>	COMPLETING THE TEN YEAR SWIFT SUPERNOVA ARCHIVE	2015-2016
	PI – Swift Guest Investigator Fill-in program, Cycle 12	
	SWIFT ULTRAVIOLET/X-RAY OBSERVATIONS OF SUPERNOVAE	2005 – Present
	PI – over one hundred accepted Target of Opportunity requests	
	HET OBSERVATIONS OF DARK ENERGY SURVEY SUPERNOVAE	2012 – 2013
	PI – Spectroscopic classification of Dark Energy Survey transients	
	HET OBSERVATIONS OF SWIFT SUPERNOVAE	2005 – 2009
	PI – Low resolution spectroscopy with the Hobby-Eberly Telescope	

### Collaborative Programs

	SPECTROPOLARIMETRY OF INFANT SUPERNOVAE	2018
	Co-I – Very Large Telescope, PI – Y. Yang (Weizmann Institute)	
	SUPERNOVA IA POLARIZATION SURVEY	2018
	Co-I – Very Large Telescope, PI – A. Cikota (ESO, Max Plank Institute for Astrophysik)	
	A SECOND LADDER: TESTING FOR BIAS IN THE TYPE IA DISTANCE SCALE WITH SBF	2016-2017
	Co-I – Hubble Space Telescope, Cycle 24, PI – P. Milne (U. Arizona)	
	FAR UV SPECTROSCOPY OF SUPERLUMINOUS SUPERNOVAE	2016-2017
	Co-I – Hubble Space Telescope, Cycle 24, PI – R. Quimby (SDSU)	
	POLARIMETRY OF ASASSN-15LH AS A PROBE OF EXPLOSION PHYSICS OF THE MOST LUMINOUS SUPERNOVA EVER DISCOVERED	2015
	Co-I – Hubble Space Telescope, Director's Discretionary Time PI – Y. Yang (grad student, Texas A&M)	
	IMAGING POLARIMETRY OF LIGHT ECHOES AROUND SN 2014J	2015-2017
	Co-I – Hubble Space Telescope, Cycle 23, PI – L. Wang (Texas A&M)	
	UNDERSTANDING THE PROGENITOR SYSTEMS, EXPLOSION MECHANISMS, AND COSMOLOGICAL UTILITY OF TYPE IA SUPERNOVAE	2014-2015
	Co-I – Hubble Space Telescope, Cycle 22, PI – R. Foley (U. Illinois)	
	TESTING THE STANDARDIZABILITY OF TYPE IA SUPERNOVAE WITH THE CEPHEID DISTANCE OF A TWIN SUPERNOVA	2014-2015
	Co-I – Hubble Space Telescope, Cycle 22, PI – R. Foley (U. Illinois)	
	POLARIMETRY OF SN 2014J IN M82 AS A PROBE OF ITS DUSTY ENVIRONMENT	2014-2015
	Co-I – Hubble Space Telescope, Cycle 22, PI – L. Wang (Texas A&M)	
	SWIFT SCIENCE/ULTRAVIOLET OPTICAL TELESCOPE INSTRUMENT TEAMS	2004-current
	DARK ENERGY SURVEY: SUPERNOVA WORKING GROUP MEMBER	2012-current
	SURVEY USING DECam FOR SUPERLUMINOUS SUPERNOVAE (SUDSS) Co-I	2014-current
	SLOAN DIGITAL SKY SURVEY II: SUPERNOVA SURVEY EXTERNAL COLLABORATOR	

SLOAN DIGITAL SKY SURVEY III: BARYON OSCILLATION SPECTROSCOPIC SURVEY	2009-2012
ORGANIZER, DIMEBOX INSTITUTE FOR SUPERNOVA ASTROPHYSICS Coordinate meetings amongst researchers at Texas A&M, the U. of Texas, Southern Methodist U., U. of Texas-San Antonio, Texas Tech, and Southwest Research Institute.	2013-2015
REFeree – ASTROPHYSICAL JOURNAL, MNRAS, NATURE	2013-current
CHAIR OF A NASA PROPOSAL REVIEW COMMITTEE	
ORGANIZING COMMITTEE, TEXAS A&M ASTRONOMY SYMPOSIUM	2012-2016
GRADUATE STUDENT REPRESENTATIVE ON GRADUATE PROGRAM COMMITTEE, PENNSYLVANIA STATE UNIVERSITY Represented students in issues of curriculum, recruiting, and compensation.	2007 – 2009
SPECIAL GUEST, PENNSYLVANIA, UTAH, TEXAS Talk about astronomy to school classes and amateur astronomy groups	2009-current
BOY SCOUTS OF AMERICA VOLUNTEER Taught a class from the new STEM NOVA program Led a star party for summer camp instructors to teach them how to teach astronomy	2015 – 2016
PHYSICSFEST VOLUNTEER, TEXAS A&M Described the process of supernova hunting to enthusiastic visitors Assisted visitors in creating their own colorful astronomical images	2012 – 2017
ASTROFEST VOLUNTEER, PENNSYLVANIA STATE UNIVERSITY Assisted with roof top observing, discussed Swift satellite, and gave public talks – “The Swift Gamma Ray Burst Explorer” and “My Trip to Mars”	2005 – 2008
PLANETARIUM PRESENTER, ROOFTOP OBSERVING GUIDE, BRIGHAM YOUNG UNIVERSITY Gave public presentations in the planetarium and assisted with roof top observing	2002 – 2004
College of Science Undergraduate Research Mentoring Award	2017
Bruno Rossi Prize – Neil Gehrels and the Swift Team	2007
NASA Group Achievement Award – Swift Ground Team	2007
National Merit/Heritage Scholar – Brigham Young University	1997–1998, 2000–2003
Eagle Scout – Boy Scouts of America	1997

**Invited  
Talks**

RED OR REDDENED? ULTRAVIOLET COLORS OF TYPE IA SUPERNOVAE  
Supernova group seminar  
Stockholm, Sweden, May 25, 2018

MEASURING THE UNIVERSE WITH EXPLODING STARS  
Texas Tech Physics & Astronomy Colloquium  
Lubbock, Texas, USA, February 13, 2018

MEASURING THE UNIVERSE WITH EXPLODING STARS  
University of Houston-Clear Lake Physics Seminar Series  
Clear Lake, Texas, USA, February 5, 2018

THE FUTURE OF SUPERNOVA COSMOLOGY  
Brigham Young University Physics & Astronomy Colloquium  
Provo, Utah, USA, January 31, 2018

MEASURING THE UNIVERSE WITH EXPLODING STARS  
University of Nevada-Reno Colloquium  
Reno, Nevada, USA, January 26, 2018

CALIBRATING EXPLODING STARS TO MEASURE THE UNIVERSE  
University of Nevada-Reno Student Lunch Talk  
Reno, Nevada, USA, January 26, 2018

CALIBRATING EXPLODING STARS TO MEASURE THE UNIVERSE  
Trinity University Colloquium  
San Antonio, Texas, USA, October 10, 2017

CLASSIFYING MILLIONS OF SUPERNOVAE WITH LSST  
Statistics & Astronomy Workshop  
College Station, Texas, USA, June 15, 2017

COMPARING SUPERLUMINOUS SUPERNOVAE IN THE ULTRAVIOLET  
ACROSS THE HISTORY OF THE UNIVERSE  
MIAPP Workshop: SUPERLUMINOUS SUPERNOVAE IN THE NEXT DECADE  
Garching, Germany, May 3, 2017

USING THE ULTRAVIOLET TO UNDERSTAND THE INFRARED  
Mitchell Workshop For James Webb Space Telescope Early Release Science planning  
Cook's Branch Nature Conservancy, Texas, April 26, 2017

ULTRAVIOLET UPDATE  
Mitchell Workshop with Carnegie Supernova Project  
Cook's Branch Nature Conservancy, Texas, April 12, 2017

CALIBRATING EXPLODING STARS TO MEASURE THE UNIVERSE  
University of Texas-Arlington Colloquium  
Arlington, Texas, USA, March 1, 2017

MEASURING THE UNIVERSE WITH EXPLODING STARS  
Texas A&M Astronomy seminar  
College Station, Texas, USA, December 5, 2016

TYPE IA SUPERNOVA ULTRAVIOLET OUTLIERS  
SUPERNOVAE: THE OUTLIERS  
Garching bei Muenchen, Germany, September, 2016

MEASURING THE UNIVERSE WITH ULTRAVIOLET EXPLOSIONS  
Brigham Young University Physics & Astronomy Colloquium  
Provo, UT, USA, January 20, 2016

CALIBRATING EXPLODING STARS FOR PRECISION COSMOLOGY  
University of Texas-San Antonio Colloquium  
San Antonio, Texas, USA, February 13, 2015

CALIBRATING EXPLODING STARS FOR PRECISION COSMOLOGY  
Sam Houston State University Colloquium  
Huntsville, Texas, USA, February 12, 2015

SWIFT SUPERNOVAE: THE NEXT TEN YEARS  
Swift: Ten Years of Discovery Meeting  
Rome, Italy, Dec 4, 2014

ULTRAVIOLET EXPLOSIONS  
INAF – Astronomical Observatory of Padova Research Seminar  
Padova, Italy, Dec 1, 2014

CALIBRATING EXPLODING STARS FOR PRECISION COSMOLOGY  
Baylor University Colloquium  
Waco, Texas, USA, Sep 3, 2014

ULTRAVIOLET OBSERVATIONS OF SUPERNOVAE WITH SWIFT:  
PAST, PRESENT, AND FUTURE  
Swift Science Team Planning Meeting  
State College, Pennsylvania, USA, Oct 28-30, 2013

AN ULTRAVIOLET VIEW OF TYPE IA SUPERNOVA PROGENITORS  
Mitchell Workshop  
Cook's Branch Nature Conservancy, Texas, April 9-11, 2013

ULTRAVIOLET STUDIES OF SUPERNOVAE: THE PERIL AND THE PROMISE  
Mitchell Workshop  
Cook's Branch Nature Conservancy, Texas, April 12-14, 2012

ULTRAVIOLET STUDIES OF SUPERNOVAE: THE PERIL AND THE PROMISE  
Texas A&M Particle-Astrophysics-Cosmology Seminar  
College Station, Texas, August 29, 2012

STELLAR EXPLOSIONS  
Utah Valley University Physics Department Colloquium  
Orem, Utah, USA, Mar 30, 2011

IMPROVING STANDARD CANDLES WITH ULTRAVIOLET OBSERVATIONS  
OF TYPE IA SUPERNOVAE  
SNOWPAC conference  
Snowbird, Utah, USA, Jan 31-Feb 5, 2011

- Contributed Talks and Posters**
- ULTRAVIOLET-BRIGHT SUPERNOVAE  
Shocking Supernovae  
Stockholm, Sweden, May 2018
  - AGGIENOVA UVOIR SPECTRAL TEMPLATES  
Deciphering the Violet Universe  
Playa Del Carmen, Mexico, December, 2017
  - ULTRAVIOLET SPECTROSCOPY OF A SUPER-CHANDRA TYPE IA SUPERNOVA CANDIDATE  
American Astronomical Society Meeting  
Austin, TX, June, 2017
  - TRANSPARENCY AND REPRODUCIBILITY WITH THE  
SWIFT OPTICAL ULTRAVIOLET SUPERNOVA ARCHIVE  
Texas A&M Postdoc Symposium  
College Station, TX, USA, September, 2016
  - THE ULTRAVIOLET SUPERLUMINOUS ASASSN-15LH  
The Transient Sky  
Boston, MA, May, 2016
  - UV PHOTOMETRIC CLASSIFICATION OF SUPERNOVAE  
Photometric Classification of SuperNovae Ia  
Chicago, IL, USA, April, 2016
  - UNDERSTANDING THE ULTRAVIOLET FLUX FROM SUPERNOVAE  
American Astronomical Society Meeting  
Kissimmee, FL, USA, January, 2016
  - IMPROVING THE SWIFT SUPERNOVA RESULTS  
Time Domain Astrophysics with Swift II  
Clemson, South Carolina, USA, Oct 18-21, 2015
  - THE ULTRAVIOLET DIVERSITY OF TYPE IA SUPERNOVAE  
Fifty-One Ergs  
Raleigh, North Carolina, USA, June 1-5, 2015
  - SWIFT ULTRAVIOLET SUPERNOVA OBSERVATIONS: PAST AND FUTURE  
Hotwiring the Transient Universe - IV  
Santa Barbara, California, USA, May 12-15, 2015
  - AN ULTRAVIOLET VIEW OF SUPERNOVA PROGENITORS  
Supernovae in the Local Universe  
Coffs Harbour, Australia, Aug 11-15, 2014
  - ULTRAVIOLET OBSERVATIONS OF SUPERNOVAE  
ESO Workshop on Challenges in UV Astronomy  
Garching bei Muenchen, Germany, October 7-11, 2013
  - ULTRAVIOLET OBSERVATIONS OF SUPERNOVAE WITH SWIFT  
Supernovae Illuminating the Universe from Individuals to Populations  
Garching bei Muenchen, Germany, September 10-14, 2012
  - SWIFT ULTRAVIOLET OBSERVATIONS OF SUPERNOVAE AND THEIR HOST GALAXIES  
Supernovae and their Host Galaxies  
Sydney, Australia, June 20-24, 2011



ULTRAVIOLET SUPERNOVA OBSERVATIONS: ONE OF SWIFT'S GREATEST LEGACIES  
Time Domain Astrophysics with Swift  
Clemson, South Carolina, USA, October 24-26, 2011

ULTRAVIOLET PROPERTIES OF SUPERNOVAE  
Progenitors and Environments of Stellar Explosions  
Paris, France, June 28-July 2, 2012

ARE TYPE IA SUPERNOVAE STANDARD CANDLES IN THE UV?  
American Astronomical Society Meeting  
Long Beach, California, USA, January, 2009

ULTRAVIOLET LIGHTCURVES OF SUPERNOVAE WITH SWIFT UVOT  
American Astronomical Society Meeting  
Austin, Texas, USA, January, 2008

SWIFT UVOT OBSERVATIONS OF CORE-COLLAPSE SUPERNOVAE  
20 Years of SN1987A  
Aspen, Colorado, USA, February, 2007

SWIFT SUPERNOVA OBSERVATIONS  
American Astronomical Society Meeting  
Washington, D.C., USA, January 8-12, 2006

## References

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**First-Author Refereed Publications - H Index: 12 (first author only)**

17. RED AND REDDENED: ULTRAVIOLET THROUGH NEAR-INFRARED OBSERVATIONS OF TYPE IA SUPERNOVA 2017ERP  
**Brown, P. J.**, Hosseinzadeh, G., Jha, S., et al. 2018, ApJ, submitted; arXiv:1808.04729
16. THE ULTRAVIOLET COLORS OF TYPE IA SUPERNOVAE AND THEIR PHOTOSPHERIC VELOCITIES  
**Brown, P. J.**, Perry\*, J., Beeny\*, B., Milne, P., Wang, X. 2018, ApJ, submitted; arXiv:1807.10391
15. REDDENED, REDSHIFTED, OR INTRINSICALLY RED?  
UNDERSTANDING NEAR-ULTRAVIOLET COLORS OF TYPE IA SUPERNOVAE  
**Brown, P. J.**, Landez\*, N., Milne, P. A., & Stritzinger, M. 2017, ApJ, 836, 2
14. ASASSN-15LH: A SUPERLUMINOUS ULTRAVIOLET REBRIGHTENING OBSERVED BY SWIFT AND HUBBLE  
**Brown, P. J.**, et al. 2016, ApJ, 828, 3
13. INTERPRETING FLUX FROM BROADBAND PHOTOMETRY  
**Brown, P. J.**, et al. 2016, AJ, 152, 4
12. THEORETICAL CLUES TO THE ULTRAVIOLET DISPERSION OF TYPE IA SUPERNOVAE  
**Brown, P. J.**, et al. 2015, ApJ, 809, 37
11. THE FIRST TEN YEARS OF SWIFT SUPERNOVAE  
**Brown, P. J.**, Roming, P. W. A., & Milne, P. A. 2015, JHEAP, 7, 111  
Invited Review Paper for special Ten Years of Swift issue
10. SWIFT ULTRAVIOLET OBSERVATIONS OF SUPERNOVA 2014J IN M82:  
LARGE EXTINCTION FROM INTERSTELLAR DUST  
**Brown, P. J.**, et al. 2015, ApJ, 805, 74
9. THE ULTRAVIOLET BRIGHTEST TYPE IA SUPERNOVA 2011DE  
**Brown, P. J.** 2014, ApJL, 796, 18
8. SOUSA: THE SWIFT OPTICAL/ULTRAVIOLET SUPERNOVA ARCHIVE  
**Brown, P. J.**, et al. 2014, Ap&SS, 354, 89
7. ULTRAVIOLET OBSERVATIONS OF SUPER-CHANDRASEKHAR MASS  
TYPE IA SUPERNOVA CANDIDATES WITH SWIFT UVOT  
**Brown, P. J.**, et al. 2014, ApJ, 787, 29
6. A SWIFT LOOK AT SN2011FE:  
THE EARLIEST ULTRAVIOLET OBSERVATIONS OF A TYPE IA SUPERNOVA  
**Brown, P. J.**, et al. 2012, ApJ, 753, 22
5. CONSTRAINTS ON TYPE IA SUPERNOVA PROGENITOR COMPANIONS  
FROM EARLY ULTRAVIOLET OBSERVATIONS WITH SWIFT  
**Brown, P. J.**, et al. 2012, ApJ, 749, 18
4. THE ABSOLUTE MAGNITUDES OF TYPE IA SUPERNOVAE IN THE ULTRAVIOLET  
**Brown, P. J.**, et al. 2010, ApJ, 721, 1608
3. ULTRAVIOLET LIGHT CURVES OF SUPERNOVAE WITH SWIFT UVOT  
**Brown, P. J.**, et al. 2009, AJ, 137, 4517
2. EARLY ULTRAVIOLET, OPTICAL, AND X-RAY OBSERVATIONS  
OF THE TYPE IIP SN2005CS IN M51 WITH SWIFT  
**Brown, P. J.**, et al. 2007, ApJ, 659, 1488
1. ULTRAVIOLET, OPTICAL, AND X-RAY OBSERVATIONS OF THE TYPE IA  
SUPERNOVA 2005AM WITH SWIFT  
**Brown, P. J.**, et al. 2005, ApJ, 635, 1192

## Coauthored Publications

110. X-RAY SWIFT OBSERVATIONS OF SN 2018COW  
Rivera-Sandoval, L.E., Maccarone, T. J., Corsi, A., **Brown, P. J.**, Pooley, D., & Wheeler, J. C. 2018, MNRAS, in press, arXiv:1807.06369
109. SEEING DOUBLE: ASASSN-18BT EXHIBITS A DOUBLE-POWER-LAW RISE IN THE EARLY-TIME EM K2 LIGHT CURVE  
Shappee, B., et al. including **Brown, P. J.**, AAS Journals, submitted, arXiv:1807.11526
108. THE DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY-II SUPERNOVA SURVEY  
Sako, M., et al. including **Brown, P. J.** 2018, PASP, 130, 4002
107. SIGNIFICANT LUMINOSITY DIFFERENCES OF TWO TWIN TYPE IA SUPERNOVAE  
Foley, R., et al. including **Brown, P. J.**, 2018, MNRAS, submitted, arXiv:1806.08359
106. SN 2015AS: A LOW-LUMINOSITY TYPE IIB SUPERNOVA WITHOUT AN EARLY LIGHT-CURVE PEAK  
Gangopadhyay, A., et al. including **Brown, P. J.** 2018, MNRAS, 476, 3611
105. SN 2012FR: ULTRAVIOLET, OPTICAL, AND NEAR-INFRARED LIGHT CURVES OF A TYPE IA SUPERNOVA OBSERVED WITHIN A DAY OF EXPLOSION  
Contreras, C., et al. including **Brown, P. J.** 2018, ApJ, 859, 24
104. FAR-UV HST SPECTROSCOPY OF AN UNUSUAL HYDROGEN-POOR SUPERLUMINOUS SUPERNOVA: SN2017EGM  
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