

## Curriculum Vitae - **Maria R. Drout**

Hubble, Carnegie-Dunlap Postdoctoral Fellow  
 The Observatories of the Carnegie Institution for Science  
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### **PRIMARY RESEARCH INTERESTS**

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| Unusual Astrophysical Transients | Core Collapse Supernovae                   |
| Massive Star Evolution           | Mass Loss and Variability in Massive Stars |

### **RESEARCH POSITIONS**

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| NASA Hubble Postdoctoral Fellow, Carnegie Observatories                              | 2016 - present    |
| Associate Researcher, Dunlap Institute, University of Toronto                        | 2016 - present    |
| Research Assistant, Lowell Observatory   | 2008, 2010 – 2011 |
| <i>Advisor:</i> Dr. Phil Massey  |                   |
| <i>Topics:</i> Massive Star Evolution: Yellow and Red Supergiants of the Local Group |                   |
| Variability in the Upper HR-Diagram: Yellow Supergiants and LBVs                     |                   |
| Research Assistant, Harvard-Smithsonian Center for Astrophysics                      | 2009              |
| <i>Advisor:</i> Dr. Alicia Soderberg   |                   |
| <i>Topics:</i> Explosion Properties and Progenitors of Type Ibc SN                   |                   |
| Research Assistant, University of Iowa   | 2007 – 2010       |
| <i>Advisor:</i> Dr. Cornelia Lang  |                   |
| <i>Topics:</i> Star Formation in the Sickle HII region of the Galactic Center        |                   |
| Paschen Alpha and Radio Polarimetric Survey of the Galactic Center                   |                   |
| Radio Nebulae of Ultra-Luminous X-Ray Sources  |                   |

### **EDUCATION**

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|   |      |
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| Harvard University, Ph.D. Astrophysics  | 2016 |
| <i>Advisor:</i> Dr. Edo Berger  |      |
| <i>Thesis Title:</i> Peculiar Transients as Probes of Stellar Evolution and Mass Loss |      |
| Harvard University, M.A. Astrophysics   | 2013 |
| University of Cambridge, Churchill College, M.A.St. Theoretical Physics               | 2011 |
| Part III of the Mathematical Tripos   |      |
| University of Iowa, B.S. Summa Cum Laude with Honors, Physics and Astronomy           | 2010 |

### **SELECTED FELLOWSHIPS AND AWARDS**

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| NASA Hubble Fellowship, Carnegie Observatories                   | 2016 - present        |
| Dunlap Postdoctoral Fellowship, University of Toronto            | (deferred: 2018-2021) |
| Harvard University Graduate Merit Fellowship                     | 2015                  |
| NSF Graduate Research Fellowship                                 | 2010-2014             |
| Harvard University James Mills Pierce Graduate Fellowship        | 2011-2014             |
| Churchill Fellowship   | 2010-2011             |
| Goldwater Fellowship   | 2009-2010             |
| University of Iowa Ernest R. Johnson Memorial Prize              | 2010                  |
| Awarded to graduating student with the highest academic standing |                       |
| James Van Allen Award, University of Iowa                        | 2010                  |
| Society of Physics Students Outstanding Leadership Award         | 2010                  |
| Association of Women in Science Lorentzen Award                  | 2010                  |
| Phi Beta Kappa Stevens Award                                     | 2010                  |

**PUBLICATIONS (see attached publication list; H-index: 24)**


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 Journal Publications: 7 first author, 37 Nth author

Other Publications: 6 conference proceedings, 1 white paper

**PI GRANTS**


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 Hubble Fellowship Research Award HST-HF2-51373.001; **\$355,111**

 Chandra X-ray Observatory, Observing Grant 18500126; **\$85,870**
**SUCCESSFUL PI PROPOSALS**


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 Spectroscopy of Infant Supernovae and Rapid Transients Discovered by the KMTNet SN Project

- 9 hours; Gemini South 2017B

A Pilot Survey for Stripped Binary Stars in the LMC

- 1 night; Magellan Clay 2017B

X-rays as a probe of the progenitor of the Type Ia SN2017cbv

- 50 ks, *Chandra* DDT

Probing the Evolutionary History of “Non-Standard” SN Progenitors: SN2016gkg

- 16 hours, JVLA, DDT, 2017A,B

Transients as Probes of Stellar Evolution and Mass Loss

- 20 nights, Magellan Clay 2017A, 2017B, DuPont 2.5m 2017A, 2017B

Yellow Supergiants as Probes of Stellar Evolution and Mass Loss

- 12 nights, Magellan Clay 2017A, 2017B, DuPont 2.5m 2017B

Chandra Observations of Extreme Mass Loss from the Progenitors of Luminous Type II In SNe

- 150 ks, *Chandra* Cycle 18

VLA Observations as Probes of Mass Loss From the Progenitors of Luminous Type II In SNe

- 35 hours; JVLA, 2015B, 2016B, 2017A

Blasts from the Past: Resolving Ejecta Nebulae around LBVs in the Magellanic Clouds

- 3 nights; Magellan Baade 2014B

PS1-MDS Type II In SN: Do Explosion Properties Correlate with Host Galaxy Environment?

- 8 nights; MMT 2015A, MMT 2015C, Magellan Baade 2015A, Magellan Baade 2015B

Unveiling the Energy Source within Peculiar Core-Collapse SN

- 3 nights; MMT 2014A, MMT 2014B, MMT 2014C

**ADVISING EXPERIENCE**


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|   |              |
|---|--------------|
| Chris Ni (SURP; co-supervised with D.S. Moon) | 2016-present |
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| Shannon Brown (SURP; co-supervised with D.S. Moon; J. Antoniadis) | 2016-present |
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| Anna O’Grady (PhD; 1 <sup>st</sup> year project; co-supervised with B. Gaensler) | 2016-2017 |
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**TEACHING EXPERIENCE**


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|   |            |
|---|------------|
| Harvard University Certificate of Distinction in Teaching | 2012, 2013 |
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| Center for Astronomy Education Teaching Certificate | 2013 |
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| Astron-100 “An Introduction to Observational Astronomy”, Teaching Fellow | 2013 |
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| SPU-19 “The Energetic Universe”, Teaching Fellow | 2012 |
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| 029:050 “Stars, Galaxies and the Universe”, Night Sky Telescope Guide | 2007 - 2010 |
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**SERVICE**


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|   |                |
|---|----------------|
| LSST Transients and Variable Star Working Group | 2016 – present |
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- *Chair of Fast Transient Sub-group* 2017 – present

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| Reviewer for <i>Nature</i> , <i>ApJ</i> , <i>ApJL</i> , and <i>MNRAS</i> | 2011 – present |
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| University of Toronto Colloquium Committee | 2017 – present |
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| Student Representative on Harvard Astronomy Committee for Academic Studies | 2012 – 2015 |
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## ***SELECTED ACADEMIC PRESENTATIONS***

### ***International Conference Presentations (8 invited talks, 14 contributed talks, 5 posters)***

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|--|----------------|
| Fifty One Ergs Supernovae Conference (U of Oregon), <i>invited review talk</i>               | June 2017      |
| Supernovae the LSST Revolution, (Northwestern), <i>invited review talk</i>                   | May 2017       |
| The Inner Workings of Massive Stars (KITP, Santa Barbara), <i>talk</i>                       | April 2017     |
| CSI Princeton, A Definitive Investigation of Cassiopeia A, <i>invited review talk</i>        | March 2017     |
| NASA Hubble Symposium 2017 (STScI), <i>talk</i>  | March 2017     |
| The Transient Universe with JWST, (Cambridge, MA), <i>invited participant</i>                | Jan 2017       |
| The Lives and Death Throes of Massive Stars, IAUS, (New Zealand), <i>talk</i>                | Nov 2016       |
| Supernovae Workshop, International Space Science Institute (Bern), <i>invited talk</i>       | Oct 2016       |
| Fellows at the Frontiers 2016 (CIERA, Northwestern University), <i>invited talk</i>          | Sept 2016      |
| Supernovae Through the Ages Conference (Easter Island), <i>talk</i>                          | Aug 2016       |
| Sackler Conference in Theoretical Astrophysics (Cambridge, MA), <i>invited talk</i>          | May 2016       |
| 227 <sup>th</sup> American Astronomical Society Meeting, <i>thesis talk</i>                  | Jan 2016       |
| Fifty-One Ergs Supernovae Conference (Raleigh, NC), <i>talk</i>                              | June 2015      |
| GMT Community Science Meeting on Transient Phenomena (D.C.), <i>talk</i>                     | Oct 2014       |
| Supernovae in the Local Universe Conference (Coffs Harbour, Australia), <i>talk</i>          | Aug 2014       |
| Women in Aerospace and Astrospace Symposium (MIT), <i>invited talk</i>                       | Apr 2014       |
| Fifty-One Ergs Supernovae Conference (Raleigh, NC), <i>talk</i>                              | May 2013       |
| Cerro Tololo 50 <sup>th</sup> Anniversary Conference (La Serena, Chile), <i>invited talk</i> | May 2013       |
| 220 <sup>th</sup> American Astronomical Society Meeting, <i>poster</i>                       | Jan 2013       |
| Illuminating the Universe Supernovae Workshop (Garching Germany), <i>talk</i>                | Sept 2012      |
| Massive Stars and GRBs Workshop (Aspen, CO), <i>talk</i>                                     | June 2012      |
| Gamma-Ray Bursts as Probes Conference (Lake Como, Italy), <i>talk</i>                        | May 2011       |
| Galactic Center Workshop (Shanghai, China), <i>poster</i>                                    | Oct 2009       |
| 2 <sup>nd</sup> Annual Midwest Conference for Undergraduate Women in Physics, <i>talk</i>    | Jan 2009       |
| 213 <sup>th</sup> & 215 <sup>th</sup> American Astronomical Society Meeting, <i>poster</i>   | Jan 2009, 2010 |
| Bridging the Gap in Massive Star Evolution Conference (Caltech), <i>poster</i>               | Nov 2008       |

### ***Department Seminars/Colloquia (8 invited talks, 14 contributed talks):***

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|---|--------------------------|
| UC Santa Cruz Colloquium, <i>invited talk</i>                                   | Oct 2017                 |
| Las Cumbres Observatory Seminar, <i>invited talk</i>                            | Sept 2017                |
| Kavli Institute for Theoretical Physics Massive Star Reading Group, <i>talk</i> | Dec 2016                 |
| University of Hawaii Colloquium, <i>invited talk</i>                            | Dec 2016                 |
| Carnegie Supernova Project (CSP-II) Workshop, <i>talk</i>                       | Nov 2016                 |
| University of Toronto Colloquium, <i>talk</i>                                   | Oct 2016                 |
| Lowell Observatory Colloquium, <i>invited talk</i>                              | Sept 2016                |
| Ohio State CCAPP seminar, <i>invited talk</i>                                   | Jan 2016                 |
| Carnegie Observatories Seminar, <i>talk</i>                                     | Oct 2015                 |
| Caltech Astronomy Tea Talks, <i>talk</i>  | Sept 2015                |
| UC Santa Cruz FLASH seminar, <i>talk</i>  | Sept 2015                |
| UC Berkeley Theoretical Astrophysics Center Seminar, <i>invited talk</i>        | Sept 2015                |
| National Optical Astronomy Observatory FLASH seminar, <i>talk</i>               | Sept 2015                |
| Harvard-Smithsonian CfA Summer Colloquium Series, <i>invited talk</i>           | July 2014                |
| Harvard-Smithsonian CfA ITC Transient Series <i>invited talk</i>                | Mar 2014                 |
| Kavli IPMU Supernovae Group Seminar (Tokyo Japan), <i>talk</i>                  | Aug 2012                 |
| Institute of Astronomy Stars Seminar (Cambridge UK), <i>talk</i>                | Feb 2011                 |
| University of Iowa Astrophysics/Space Physics Seminar, <i>talk</i>              | Sept 2009                |
| Harvard-Smithsonian CfA REU Colloquia, <i>talk</i>                              | Aug 2009                 |
| Lowell Observatory REU Colloquia, <i>talk</i>                                   | Aug 2008                 |
| U of Iowa Dep't of Physics and Astronomy REU Colloquia, <i>talk</i>             | May 09, Sept. 08, May 08 |

## **SELECTED OUTREACH AND LEADERSHIP ACTIVITIES**

The Communicating Science Workshop (ComSciCon) 2012 – present

- *Leadership Council* 2015 – present
- *Program Organizing Committee Chair* 2014 – 2015
- *National Workshop Organizing Committee* 2012 – 2015

A workshop series dedicated to providing graduate students in technical/scientific fields with the communication skills they will require for their future careers. We receive over 1000 applications for our annual national conference (see comscicon.com)

Astrobites.com, author and administrator 2011 – present

- *Public Relations Committee Chair* 2012 – 2014
- An on-line daily literature summary dedicated to making professional journal articles more accessible to undergraduates.

Society of Physics Students (Sigma Pi Sigma Chapter) 2006 – 2010

- *President* 2008 – 2010

Coordinating social, professional, academic, and outreach activities for 100+ physics undergraduate students

The 10,000 Hours Show of Eastern Iowa 2006 – 2010

- *Development Co-Chair* 2008 – 2009
- Expanding 10K (an initiative to involve more students in community service) by putting greater emphasis on outreach activities.

Astronomy on Tap TO, Presenter 2016

Science from Scientists, Outreach Program 2013 – 2015

WISTEM mentor for undergraduates, Harvard University 2011 – 2015

Ask a Scientist, San Diego Science Center Black Hole Exhibit 2011

Hawkeyes on Science Outreach Program 2007 – 2010

WISE mentor and ambassador, University of Iowa 2008 – 2010

## **PROFESSIONAL ORGANIZATIONS**

American Astronomical Society 2009 – present

Phi Beta Kappa 2009 – present

## **OBSERVING EXPERIENCE**

Optical Long-Slit Spectroscopy and Photometry

- 53 nights; MMT 6.5m (Blue Channel, MMTCam), Magellan 6.5m (IMACS, LDSS3), DuPont 2.5m, MDM 2.4m, FLWO 1.5m

Optical Echelle Spectrographs

- 4 nights Magellan 6.5m (MIKE), 8 nights DuPont 2.5m (Echelle)

Multi-fiber optical spectrographs

- 8 nights; MMT Hectospec, CTIO Hydra

NIR Spectroscopy

- 3 nights Magellan FIRE, 1 night APOGEE-2 South

**PUBLICATIONS (7 first author, 39 Nth author, 6 conference proceedings, 1 white paper)**  
**H-index: 6 first authors, 24 total** **Citations: 311 first author, 1708 total**

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*First Author Journal Publications:*

1. **Drout, M. R.**, Berger, E., et al., 2017, “The Galaxies and sub-Galactic Environments of Luminous Interacting SN”, *in prep.*
2. **Drout, M. R.**, Milisavljevic, D., et al., 2016, “The Double Peaked SN2013ge: a Type Ib/c Sn with an Early Asymmetric Mass Ejection or Extended Progenitor Envelope”, *ApJ*, 821, 57 (24pp.) [9 citations]
3. **Drout, M. R.**, Chornock, R., et al., 2014, “Rapidly Evolving and Luminous Transients from PanSTARRS1”, *ApJ*, 794, 23 (23pp.) [33 citations]
4. **Drout, M. R.**, Soderberg, A. M., et al., 2013, “The Fast and Furious Decay of the Peculiar Type Ic Supernova 2005ek”, *ApJ*, 774, 58 (18pp.) [39 citations]
5. **Drout, M. R.**, Massey, P., & Meynet, G., 2012, “The Yellow and Red Supergiants of M33”, *ApJ*, 750, 97 (22pp.) [35 citations]
6. **Drout, M. R.**, Soderberg, A. M. et al., 2011, “The First Uniform and Statistical Survey of Type Ibc Supernovae Light-Curves”, *ApJ*, 741, 97 (20pp.) [151 citations]
7. **Drout, M. R.**, Massey, P., et al. 2009, “Yellow Supergiants in the Andromeda Galaxy (M31)”, *ApJ*, 703, 441-460 [42 citations]

*Nth Author Journal Publications:*

1. Kilpatrick, C., Foley, R., **Drout, M. R.** et al. 2017, “Connecting the progenitors, pre-explosion variability, and giant outbursts of luminous blue variables with Gaia16cfr”, *MNRAS submitted*
2. Cowperthwaite, P. et al. (*incl. Drout, M. R.*) 2017, “An Empirical Study of Contamination in Wide-field Optical Follow-up of Gravitational Wave Events”, *ApJ submitted*
3. Lunnan, R. et al. (*incl. Drout, M. R.*) 2017, “Hydrogen-Poor Superluminous Supernovae from the Pan-STARRS1 Medium Deep Survey” *ApJ submitted*
4. Law, C, Milisavljevic, D. et al. (*incl. Drout, M. R.*) 2017, “TRES Survey of Variable Diffuse Interstellar Bands”, *MNRAS accepted*
5. Milisavljevic, D. et al. (*incl. Drout, M. R.*) 2017, “iPTF15eqv: A Multi-Wavelength Expose of Calcium-Rich Transients”, *ApJ accepted*
6. Margutti, R. et al. (*incl. Drout, M. R.*) 2017, “Results from a systematic survey of X-ray emission from Hydrogen-Poor Superluminous Supernovae”, *ApJ submitted*
7. Shivvers, et al. (*incl. Drout, M. R.*) 2017, “The Nearby Type Ibn Supernova 2015G: Signatures of Asymmetry and Progenitor Constraints” *MNRAS submitted*
8. Blanchard et al. (*incl. Drout, M. R.*) 2017, “PS16dtm: A Tidal Disruption Event in the Narrow-line Seyfert 1 Galaxy” *ApJ Submitted*
9. Margutti, R. et al. (*incl. Drout, M. R.*) 2017, “X-Rays from the Location of the Double-humped Transient ASASSN-15lh”, *ApJ*, 836, 25 (13pp.)
10. Margutti, R. et al. (*incl. Drout, M. R.*) 2016, “Ejection of the massive Hydrogen-rich envelope timed with the collapse of the stripped SN2014C”, *ApJ*, 835, 140 (18pp)
11. Lunnan, R. et al. (*incl. Drout, M. R.*) 2016, “PS1-14bj: A Hydrogen-Poor Superluminous Supernova with a Long Rise and Slow Decay”, *ApJ*, 831, 144 (15pp.)

12. Cowperthwaite, P. S. et al. (*incl. Drout, M. R.*) 2016, “A DECam Search for an Optical Counterpart to the LIGO Gravitational Wave Event GW151226”, *ApJL*, 836, 29 (7pp.)
13. Abbott, B. P. et al. (*incl. Drout, M. R.*) 2016, “Localization and broadband follow-up of the gravitational-wave transient GW150914, *ApJL*, 826, 13 (8pp.)
14. Nicholl, M. et al. (*incl. Drout, M. R.*) 2016, “SN 2015bn: a detailed multi-wavelength view of a nearby superluminous supernova”, *ApJ*, 826, 39 (28pp.)
15. Annis, J. et al. (*incl. Drout, M. R.*) 2016, “A Dark Energy Camera Search for Missing Supergiants in the LMC After the Advanced LIGO Gravitational Wave Event GW150914”, *ApJ*, 923, 34
16. Soares-Santos, M. et al. (*incl. Drout, M. R.*) 2016, “A Dark Energy Camera Search for an Optical Counterpart to the First Advanced LIGO Gravitational Wave Event GW150914”, *ApJ* 823, 33
17. Milisavljevic et al. (*incl. Drout, M. R.*) 2015, “Metamorphosis of SN2014C: Delayed Interaction Between a Hydrogen Poor Core-Collapse Supernova and a Nearby Circumstellar Shell”, *ApJ*, 815, 120 (12pp.)
18. Maeda, K. et al. (*incl. Drout, M. R.*) 2015, “Type IIb SN2013df Entering into an Interaction Phase: A Link between the Progenitor and the Mass-loss, *ApJ*, 807, 35 (10pp.)
19. Lunnan, R. et al. (*incl. Drout, M. R.*) 2015, “Zooming in on the Progenitors of Superluminous Supernovae with HST”, *ApJ*, 804, 90 (11pp.)
20. Sanders, N. et al. (*incl. Drout, M. R.*) 2015, “Towards Characterization of the Type IIP SN Progenitor Population: a Statistical Sample of Light Curves from PS1”, *ApJ*, 799, 208 (23pp.)
21. Milisavljevic, D., et al. (*incl. Drout, M. R.*) 2014, “The Broad-lined Type Ic SN2012ap and the Nature of Relativistic Supernovae Lacking a Gamma-Ray Burst detection”, *ApJ*, 799, 51 (14pp.)
22. Margutti R, et al. (*incl. Drout, M. R.*) 2014, “Relativistic Supernovae have Shorter-lived Central Engines or More Extended Progenitors: the Case of SN2012ap”, *ApJ*, 797, 107 (8pp.)
23. Kamble, A., et al. (*incl. Drout, M. R.*) 2014, “Radio Observations Reveal a Smooth Circumstellar Environment Around the Extraordinary Type Ib SN2012au”, *ApJ*, 797, 2 (10pp.)
24. Scolnic, D., et al. (*incl. Drout, M. R.*) 2014, “Systematic Uncertainties Associated with the Cosmological Analysis of the First Pan-STARRS1 Type Ia Supernova Sample”, *ApJ*, 795, 45 (23pp.)
25. Rest, A., et al. (*incl. Drout, M. R.*) 2014, “Cosmological Constraints from Measurements of Type Ia Supernovae Discovered during the First 1.5 yr of the Pan-STARRS1 Survey”, *ApJ*, 795, 44 (34pp.)
26. Margutti, R., et al. (*incl. Drout, M. R.*) 2014, “No X-rays from the Very Nearby Type Ia SN 2014J: Constraints on Its Environment”, *ApJ*, 790, 52 (9pp.)
27. Lunnan, R., et al. (*incl. Drout, M. R.*) 2014, “Hydrogen-Poor Superluminous Supernovae and Long-duration Gamma-Ray Bursts have Similar Host Galaxies”, *ApJ*, 787, 138 (19pp.)
28. Milisavljevic, D., et al. (*incl. Drout, M. R.*) 2014, “Interaction between the Broad-lined Type Ic SN 2012ap and Carriers of Diffuse Interstellar Bands”, *ApJ*, 782, L5 (6pp.)

29. McCrum, M. et al. (*incl. Drout, M. R.*) 2014, “The superluminous supernova PS1-11ap: bridging the gap between low and high redshift”, *MNRAS*, 437, 656-674
30. Chornock, R., et al. (*incl. Drout, M. R.*) 2014, “The Ultraviolet-bright, Slowly Declining Transient PS1-11af as a Partial Tidal Disruption Event”, *ApJ*, 780, 44 (20pp.)
31. Margutti, R. et al. (*incl. Drout, M. R.*) 2014, “A Panchromatic View of the Restless SN2009ip Reveals the Explosive Ejection of a Massive Star Envelope”, *ApJ*, 780, 21 (38pp.)
32. Chornock, R., et al. (*incl. Drout, M. R.*) 2013, “GRB 130606A as a Probe of the Intergalactic Medium and the Interstellar Medium in a Star-forming Galaxy in the First Gyr after the Big Bang”, *ApJ*, 774, 26 (10pp.)
33. Lunnan, R., et al. (*incl. Drout, M. R.*) 2013, “PS1-10bzj: A Fast, H-poor Superluminous Supernova in a Metal-poor Host Galaxy”, *ApJ*, 771, 97 (13pp.)
34. Milisavljevic, D., et al. (*incl. Drout, M. R.*) 2013, “SN 2012au: A Golden Link between Superluminous Supernovae and Their Lower-luminosity Counterparts”, *ApJL*, 770, 38 (6pp.)
35. Sanders, N. E., et al. (*incl. Drout, M. R.*) 2013, “PS1-12sk is a Peculiar Supernova from a Herich Progenitor System in a Brightest Cluster Galaxy Environment”, *ApJ*, 769, 39 (15pp.)
36. Chornock, R., et al. (*incl. Drout, M. R.*) 2013, “PS1-10afx at  $z=1.388$ : Pan-STARRS1 Discovery of a New Type of Superluminous Supernova”, *ApJ*, 767, 162 (16pp.)
37. Sanders, N. E., et al. (*incl. Drout, M. R.*) 2012, “A Spectroscopic Study of Type Ibc Supernova Host Galaxies from Untargeted Surveys”, *ApJ*, 758, 132 (24pp.)
38. Berger, E. et al. (*incl. Drout, M. R.*) 2012, “Ultraluminous Supernovae as a New Probe of the Interstellar Medium in Distant Galaxies”, *ApJ*, 755, 29 (6pp.)
39. Neugent, K. F., Massey, P., Skiff, B., **Drout, M. R.**, et al. 2010, “Yellow Supergiants in the Small Magellanic Cloud: Putting Evolutionary Theory to the Test”, *ApJ*, 719, 1784-1795

#### *Conference Proceedings:*

1. Massey, P. et al. (*incl. Drout, M. R.*) 2017, “The Red Supergiant Content of the Local Group”
2. **Drout, M. R.**, Massey, P., 2015, “Evolved Massive Stars in the Local Group”, *ASPC*, 491, 307D
3. **Drout, M. R.**, Lang, C. C., 2011, “Isolated Massive Star Winds in the Galactic Center: Radio Counterparts to Paschen Alpha and X-ray Sources”, *ASPC*, 439, 123
4. Lang, C. C., **Drout, M. R.**, “The Galactic Center Magnetic Field on Smaller Scales: Multifrequency Observations of Nonthermal Filament Candidates”, *ASPC*, 439, 53
5. **Drout, M. R.**, Massey, P., 2010, “Filling the Yellow Void: A Census of F and G Supergiants in M31”, *ASPC*, 425, 51
6. Lang, C. C., **Drout, M. R.**, 2008, “The magnetic environment in the central region of nearby galaxies”, *JPhCS*, 131, 012032

#### *White Papers:*

1. “Enabling New ALMA Science with Improved Support for Time-Domain Observations”, submitted to ALMA Science Advisory Council; corresponding author P. K. G. Williams, arXiv:1703.04692