

CURRICULUM VITAE

MARYAM MODJAZ

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EMPLOYMENT

Sept. 2011–present **New York University**
 Assistant Professor in Physics/CCPP

2010–2011 **Columbia University**
 Hubble Postdoctoral Fellow (100% independent research)

2007–2010 **University of California, Berkeley**
 Miller Postdoctoral Fellow (100% independent research)

EDUCATION

2001–2007 **Harvard University**
 Ph.D., Astronomy (**June 2007**)
 Ph.D. Thesis: *Varied Deaths of Massive Stars: Properties of Nearby Type IIb, Ib and Ic Supernovae*
 Advisor: Prof. Robert P. Kirshner
 A.M., Astronomy (2003)

1996–2000 **University of California, Berkeley**
 B.A., Astrophysics (2000) with High Honors
 Honors Thesis: *The Peculiar Type Ia Supernova 1998de in NGC 252*
 Advisor: Prof. Alexei V. Filippenko

HONORS AND AWARDS

2015–2017 Scialog Fellow (by the Research Cooperation for Science Advancement)

2014 NSF CAREER award for early-career faculty

2010 German Astronomical Society: Ludwig-Biermann (early-career) Award (equivalent to AAS' Newton Lacy Pierce Prize)

2010 Postdoctoral Fellowships: Hubble, NOAO Leo Goldberg (declined), ESO (declined)

2007 Grand Prize at IAU Symposium 250: "Massive Stars as Cosmic Engines"

2007 UC Berkeley: Miller Institute Research Fellowship

2007 Harvard University: Fireman Doctoral Dissertation Prize in Astronomy

2002, 2003, 2005 Harvard University: 3 Certificates of Distinction in Teaching

2000 UC Berkeley: Commencement Speech, Physics & Astronomy Department

2000 UC Berkeley: Dorothea Klumpke Roberts Prize for Outstanding Scholarly Achievement in Astronomy & High Honors

1997–2000 Golden Key National Honor Society

1996 & 1999 UC Berkeley: Dean's Honor List

PUBLICATION & PRESENTATION SUMMARY

- SAO/NASA ADS 434 total abstracts, 61 refereed papers, 5200+ citations (h-Index = 39)
- 55+ Colloquia and invited seminars
- 29 Invited and review talks at national and international conferences

GRANTS AWARDED

- 2016 NYU Science Challenge Grant, Sole PI, \$105,500 (2016-2018)
"Innovative Data Science Methods for Understanding Exploding Stars"
- 2014 NSF, Sole PI, \$344,262 (2014-2017)
"Fingerprinting Type I Supernovae: Quantifying Their Diversity and sharpening Their Utility"
- 2014 NSF CAREER, Sole PI, \$500,000 (2014-2019)
"Massive Stellar Explosions and their Host Galaxy Environments"
- 2012 NASA Hubble Space Telescope Cycle 20 (15 orbits~\$90,000), Co-I
"Early Time UV Spectroscopy of a Stripped-Envelope Supernova: A New Window"
- 2011 NASA Hubble Space Telescope Cycle 19 (Modjaz, Co-I and NYU PI), \$92,540 (2011-2012)
"Early Time UV Spectroscopy of a Stripped-Envelope Supernova: A New Window"
- 2009 NASA Hubble Postdoctoral Fellowship (Sole PI), \$121,511, 2010-2013 (took it only for 2010-2011)
"Unbiased View onto Massive Stellar Explosions and Their Environments via Innovative Surveys"
- 2007 NSF Astronomy & Astrophysics Postdoctoral Fellowship, (Sole PI), \$201,000, 2007-2010 (declined)
"Understanding the Explosions of Massive Stars"

COMPETITIVELY OBTAINED OBSERVING TIME**As P.I.**

- 2011 Gemini-N and Gemini-S Observatories, 8-m Telescopes (32 hrs)
- 2008 Shane 3m-Telescope, Lick Observatory (2 nights)
- 2006–2008 Gemini-N Observatory, 8-m Telescope (23 hrs)
- 2007 Magellan Clay 6.5m-Telescope, LCO (1 night)
- 2007 MMT 6.5m-Telescope, Mt. Hopkins (2 nights)
- 2003 Greenbank 100m-Telescope (24 hrs)

As Co-I.

- 2015 Keck (1 night) & P200 (2 nights) - specifically for my CAREER funded project
- 2014 Keck (2 nights) & P200 (2 nights) - specifically for my CAREER funded project
- 2013 VLT-VIMOS (18.4 hours)
- 2011 VLT- VIMOS (25hrs)
- 2011 HST Cycle 19 (15 orbits)
- 2008–2010 Keck I Observatory, 10-m Telescope (**only other Co-I**, 5 nights) and earlier ones (not listed)

NYU TEACHING

Fall 2016	Teaching Relief as Vice-Provost Fellow for Diversity
Spring 2016	Graduate Class "Stars and Stellar Explosions", 5 PhD students
Fall 2015	Teaching Relief
Spring 2015	Goddard Leave (no teaching)
Fall 2014	Undergraduate Class, Core "Quarks to Cosmos", 110 undergrads
Spring 2014	Undergraduate Class, Core "Quarks to Cosmos", 104 undergrads
Fall 2013	Graduate Class, "Stars" , 7 PhD students
Spring 2013	Undergraduate Class, MAP "Quarks to Cosmos", 120 undergrads Undergraduate Class "Observational Astronomy", 30 undergrads
Spring 2012	Graduate Class "Stars and Stellar Explosions", 5 PhD students

NYU TRAINING & ADVISING

Advising postdocs:	Fed Bianco (2012–now), Or Graur (2013–2016), Shan Huang (2015–now) Raffaella Margutti (2015–2016)
Advising PhD students:	Yuqian Liu (2012–now), Kieran Finn (2015–2016) Nitya Mandyam Doddamane (summer & fall 2012)
Advising undergraduates:	S. Man Oh (2013–2015, NYU AD), N. Khavari (2014, NYU-Poly)
Employing research assistant:	David Fierroz (2011 – 2015, NYU)
NYU committee member:	Yin Zhang (02/14, Oral qualifier), Rob Morris (05/12, PhD defense) Xiaoyi Xie (10/14, Oral qualifier), Ben Roig (08/15 PhD defense), Yiyang Wu (03/16, Oral qualifier)
2016 – present	Co-organizer and Co-leader of CCPP women bi-weekly gatherings
2015 – present	Founder and sponsor of CCPP astro seminar speaker meetings with grad students
Spring 2014	2014 Annual Women in Science Lecturer at the Women in NYU Science (WINS)
Spring 2013	Initiator & Co-organizer of NYU Statistics Lecture Series (drawing grad students, postdoc and faculty from wider NYC area)
Spring 2011 – present	Open House talk at PhD Recruitment
Fall 2011	Initiator of CCPP Grad student & Postdoc seminar

NYU SERVICE

Co-organizer and Co-leader of CCPP women mentoring meetings	2016 – present
NYU Diversity Faculty Mentoring Group	Spring 2014 – present
Dept. of Physics Colloquium Committee	Fall 2013 – now
Dept. of Physics Executive Committee	Fall 2013 – Spring 2016
Alternate member on Dept. of Physics Executive Committee	Fall 2012 & Spring 2013
Ad hoc CCPP committee for Target of Opportunity in Astrophysics	Fall 2013 & Spring 2014
Talk as part of NYU Saturday Science Seminar Series	Dec 2012
CCPP Astrophysics Seminar organizer	Fall 2011 & Spring 2012, Fall 2013 & Spring 2014 (with Bianco)
Big Apple Astrophysics Colloquium organizer	Fall 2011
CCPP James Arthur Postdoc Hiring Committee	Fall 2011

PROFESSIONAL SERVICE & MEMBERSHIPS

2015–2016	SOC Member for workshop "MIAPP: The Physics of Supernovae" in Germany 2016
2014–2015	Reviewer for NASA Postdoctoral Program
2013–2014	SOC Member for conference "Supernovae in the Local Universe" in Australia 2014
2013	Lecture on SN and GRBs at "Caltech Gravitational Wave Summer School" 2013
2012	Panel Speaker on workshop "Paths to Professorship" at MIT
2011–2012	SOC Member for Aspen Summer Workshop 2012 "GRBs and their progenitors"
2010–present	Member of the Palomar Transient Factory (PTF)
2010–present	Member of the LSST SN Science Collaboration
2010–2012	SOC Member for IAU Symposium 2012 in Nikko, Japan "Death of Massive Stars: SNe and GRBs"
2008–present	Panel Reviewer for NSF (2008, 2012) and Telescopes (e.g., HST 2009, 2014)
2008–2010	Annual Miller Symposium Committee Member, UC Berkeley
2007–present	Member of the Swift SN Team
2007–present	Referee for international Scientific Journals (e.g., Astrophysical Journal, Monthly Notices of the Royal Society, Astronomy & Astrophysics) and Swedish National Space Board
2007–present	Member of German Astronomical Society ("Astronomische Gesellschaft")
2007–2010	Postdoc Representative & Women in Astronomy Advocate, UC Berkeley Astronomy
2003–2006	PhD Student Representative on Committee of Academic Studies, Harvard Astronomy
2001–present	Member of American Astronomical Society (AAS)

EXTERNAL TEACHING, MENTORING & OUTREACH

2017	Public lecture at the Westport Astronomical Amateur Society
2017	Public lecture at AMNH's Rose Planetarium for the Amateur Astronomers Association of NY
2016	Leading pilot-program on diversity between NYU and NYC's Spence school (all girls school)
2016	Public talk at NYU's "Ada Lovelace Day" & panel member
2015	Public talk for Science Happy Hour at the "Lower Eastside Girls Club"
2015	Public talk at the "Intrepid Museum" in the Space Shuttle Pavilion
2013	Lecture on SN and GRBs at "Caltech Gravitational Wave Summer School" 2013
2013	Guest speaker on Stand-up comedy show "Heart of Darkness"
2007–present	Public Talks (e.g., NYU Science Saturday, Columbia U, UC Berkeley)
2009	Co-organizer for UCB Astronomy's Outreach Activities for International Year of Astronomy (e.g., public talks attracting up to 200 people)
2007–2008	Mentor, UC Berkeley Society for Women in the Physical Sciences.
2002–2006	Mentor, Harvard College Science Mentors Program
2004, 2005	Lecturer & Session Leader, Harvard Teaching Fellows Conference, Bok Center for Teaching
2002–2005	Teaching Fellow, Harvard, Science A47 ("Cosmic Connections") & Science A35
2000B	Teaching Fellow, UC Berkeley AY10 – "General Astronomy"

MEDIA APPEARANCE

- 2016 Featured in Apple’s Ad ”Don’t blink” (over 5 Million views on Youtube, as of Nov 2016)
- 2016 Interviewed and profiled for ScienceLine: <http://scienceline.org/2016/02/reaching-for-the-stars/>
- 2015 Radio interview on Art & Astrophysics for Studio360.org
- 2015 Podcast interview with ”Human, the Scientist”
- 2013 Video for ”Scientific American” (over 8700 views on Youtube, as of Oct 2016)
- 2013 Guest on Talk show on Zvieri TV The Terror of Nothing
- 2008 Press Release, numerous newspaper and radio interviews (*NPR, Physics Today, California Magazine, Daily Cal*) on Shock-Breakout in SN 2008D

COLLOQUIA AND INVITED SEMINARS

- 57. Caltech, Spring 2017
- 56. Harvard/CfA, April 2017
- 55. UCLA, March 2017
- 54. Heidelberg Institute for Theoretical Studies, Dec 2016, Germany
- 53. Florida State, Nov 2016
- 52. Cornell University, April 2016
- 51. Princeton University & Institute for Advanced Study, Nov 2015
- 50. Northwestern University, Nov 2015
- 49. UC Berkeley, Nov 2015
- 48. University of Wisconsin-Madison, Oct 2015
- 47. University of Maryland, July, 2015
- 46. NASA Goddard, July, 2015
- 45. University of Colorado, March 2015
- 44. University of Virginia, Feb 2015
- 43. Stony Brook, Feb 2015
- 42. University of Stockholm/Oskar Klein Center, Sweden, Dec 2014 (opponent at PhD thesis defense)
- 41. Texas A & M, Apr 2014
- 40. Pittsburgh University, Oct 2013
- 39. Athens National Observatory, June 2013
- 38. Yale University, April 2013
- 37. Columbia University, May 2013
- 36. Max-Planck Institute for Astronomy, Heidelberg, December 2012
- 35. Institute for Advanced Study, Princeton, Astrophysics Seminar, December 2012
- 34. Pittsburgh University, Fall 2012
- 33. University of Arizona, October 2012
- 32. Boston University, December 2011
- 31. UT Austin, Texas, November 2011
- 30. Penn State, October 2011
- 29. Rutgers University, September 2011
- 28. Stanford University, June 2011
- 27. American Museum of Natural History, November 2010

26. Yale University, November 2010
25. NYU, April 2010 (Tenure-Track Faculty Job Talk)
24. STScI, March 2010 (Tenure-Track Astronomy Job Talk)
23. MIT, February 2010 (Tenure-Track Faculty Job Talk)
22. Chicago University, February 2010 (Tenure-Track Faculty Job Talk)
21. UC Berkeley, December 2009
20. Columbia University, November 2009
19. European Southern Observatory (ESO), Garching/Germany, September 2009
18. University of Toronto, November 2008
17. Carnegie Institute, October 2008
16. UC Irvine, October 2008
15. San Francisco State University, October 2008
14. FLASH Seminar Talk, UC Santa Cruz, May 2008
13. Seminar Talk, Carnegie DTM, May 2008
12. Astrophysics and Relativity Seminar, NYU, April 2008
11. Space Telescope Science Institute, April 2008
10. Heidelberg University, Germany, March 2008
9. University of Hawaii, IfA, Hawaii, February 2008
8. Sonoma State University, November 2007
7. Berkeley Space Sciences Lab, November 2007
6. Astrophysics Seminar, Basel University, August 2007
5. ITC Talk, CfA, April 2007
4. MPA Seminar Talk, Max-Planck Institute for Astrophysics, Garching, Germany, December 2006
3. KIPAC Tea Talk, Standford/KIPAC SLAC, October 2006
2. Theoretical Astrophysics Center Talk, UC Berkeley, October 2006
1. Optical & IR Lunch Talk, Harvard-Smithsonian CfA, January 2001

INVITED AND REVIEW CONFERENCE TALKS

29. **Review Talk**, *"Symposium on GRBs and SNe: Cargese"*, Corsica, September 2017
28. **Review Talk**, *"A multi-messenger look at the origin of gamma-ray bursts"*, EWASS, Prague, June 2017
27. *"The Transient Universe with JWST"*, Harvard/CfA, January 2017
26. **Review Talk**, *KITP: "Phenomena, physics, and puzzles of massive stars and their explosive outcomes"*, KITP conference, Santa Barbara, March 2017
25. **Review Talk**, *"MIAPP: The Physics of Supernovae"*, Munich, Germany, September 2016
24. **Review Talk**, *Royal Society meeting: "Bridging the gap: from massive stars to supernovae"*, Kavli Royal Society International Centre, Chicheley Hall, UK, June 2016
23. **Review Talk**, *Harvard's 9th Sackler Conference in Theoretical Astrophysics*, Harvard-Smithsonian Center for Astrophysics, May 2016
22. **Review Talk**, *Mysterious Connection Between Superluminous Supernovae and Gamma-Ray Burst*, STScI, Baltimore, May 2016

21. *Research Cooperation for the Advancement of Science: Scilog Time Domain Astrophysics: Stars and Explosions*, Biosphere 2, AZ, October 2015
20. **Review Talk**, *McCray Symposium: A celebration of supernovae, superbubbles, gamma-ray bursts and other cosmic explosions*, Bern, Switzerland, June 2015
19. **Review Talk**, *GMT Community Science Meeting on Transients*, Washington DC, Oct 2014
18. **Review Talk**, *GRB-Magnetar Thinkshop*, Bormio, Italy, Jan 2014
17. **Review Talk**, *Galaxies meet GRBs at Cabo de Gata*, Cabo de Gata, Spain, Sept 2013
16. **Review Talk**, *Massive Stars: From α to ω* , Rhodes, Greece, June 2013
15. **Review Talk**, *Transient and Time-variable Phenomena*, at Meeting of Astronomical Society of New York, October, 2012
14. **Review Talk**, *Supernovae Illuminating the Universe: from Individuals to Population*, Garching, Germany, Sept 2012
13. **Review Talk**, "The SN-GRB Connection", *Marcel Grossman 13 GRB3 Session*, Stockholm, Sweden, July 2012
12. **Review Talk**, "Environments of SNe Ib/c", *Aspen Workshop: Massive Stars as GRB Progenitors*, Aspen, June 2012
11. **Review Talk**, *Mass return from GRBs and related Supernovae*, STScI, Baltimore, March 2012
10. Tri-State Astronomy Meeting, October 2011
9. **Review Talk**, *Explosive Ideas about Massive Stars - from Observations to Modeling*, Workshop, Stockholm, August 10-13, 2011
8. Invited Conference Talk, *Supernovae and Their Host Galaxies*, Sydney, July 2011
7. Invited Solicited Talk, *GRBs as Probes: From the Progenitor's Environments to the High-z Universe*, Como, Italy, May 2011
6. **Biermann Prize Talk**, Annual Meeting of the German Astronomical Society, Bonn, September 2010
5. **Review Talk**, *Bash Symposium*, U of Texas, Austin, October 2009
4. **Review Talk**, *Stellar Deaths and Supernovae*, KITP Santa Barbara, August 2009
3. **Review Talk**, 1st California Postdoc Symposium, UC Santa Cruz, August 2008
2. **Prize talk**, *IAU 250: Massive Stars as Cosmic Engines*, Hawaii, December 2007
1. Invited talk, *20 Years of SN1987A and GRBs*, Aspen, February 2007

Contributed Conference Talks

12. "Stripped SNe: CfA Data and Statistical Trends, "10,000 Days of SN 1987A", August 2014, Coff's Harbour, Australia
11. "SNe Ibc with and without GRBs: SN Properties and Locally Measured Metallicities", IAU Symposium, March 2012, Nikko Japan
10. "First Large Spectroscopic Dataset of Stripped Envelope Core-Collapse Supernovae", AAS, Austin, January 2012
9. "Diagnostics for Stripped SN Progenitors: Directly Measured Metallicities at SN sites", IAP Workshop on *SN Environments and Progenitors*, Paris 2010

8. "Stellar Forensics with Stripped SN: Measured Metallicities at the Explosion Sites of SN Iib, Ib and Ic", AAS Meeting January 2010, DC
7. "The SN Ib/c Zoo and Their Habitats", *Fireworks 2009*, Workshop, Bonn, July 2009
6. "SN2008D/XRT080109: Death of a Stripped Massive Star", *Hot and Cool Stars*, Pasadena, November 2008
5. "Environments of SN with and without GRBs", *Probing Stellar Populations Out to the Distant Universe*, Cefalu, Italy, September 2008
4. "Diverse Deaths of Massive Stars: Properties of Nearby SN Iib, Ib, and Ic SN", American Astronomical Society Meeting, Seattle, January 2007
3. "CfA Optical Observations of Type Ib/c Supernovae", *Compact Objects and Their Explosive Origins*, Cefalu, Italy, June 2006
2. "Spectra of Type Ia, Ib/c Supernovae", American Astronomical Society Meeting, Minneapolis, June 2005
1. "Probing the Magnetic Field at Sub-Parsec Radii in the Accretion Disk of NGC 4258", *Growing Black Holes: Accretion in a Cosmological Context*, Garching, Germany, July 2004

PUBLICATIONS

As of Dec 2016: total of 62 refereed papers and 4 code/data product releases, 4200+ citations, h-index: 39 (ADSBeta: H-index=47); 5200+ citations for all 434 bibliographic sources, including IAUC's and GCN's

First- and Second-Author Articles (or Articles by my NYU group) in Refereed Journals

21. Y.-Q. Liu & **M. Modjaz**, et al. (**2016**), "Analyzing the Largest Spectroscopic Dataset of Hydrogen-Poor Super-Luminous Supernovae", 2016, *Astrophysical Journal*, submitted: arXiv:1612.07321 (**lead by my NYU PhD student**)
20. I. Shivvers, **M. Modjaz**, et al. (**2016**), "Revisiting the Lick Observatory Supernova Search Volume-Limited Sample: Updated Classifications and Revised Stripped-envelope Supernova Fractions", 2016, *PASP*, submitted (arXiv:1609.02922)
19. O. Graur, F. Bianco, **M. Modjaz**, I. Shivvers, A. Filippenko, W. Li, & N. Smith (**2016b**), "LOSS Revisited - II: The Relative Rates of Different Supernovae vary between Low- and High-Mass Galaxies", 2016, *Astrophysical Journal*, submitted: arXiv:1609.02923 (**lead by my NYU postdoc Graur, followed by my NYU postdoc Bianco**)
18. O. Graur, F. Bianco, S. Huang, **M. Modjaz**, I. Shivvers, A. Filippenko, & W. Li (**2016a**), "LOSS Revisited - I: Unraveling Correlations between Supernova Rates and Galaxy Properties, as measured in a Re-Analysis of the Lick Observatory Supernova Search", 2016, *Astrophysical Journal*, submitted: arXiv:1609.029231 (**lead by my NYU postdoc, followed by 2 other NYU postdocs**)

17. K. Finn, F. B. Bianco, **M. Modjaz**, Y.-Q. Liu, A. Rest (**2016**), "Comparison of Diversity of Type IIb Supernovae with Asymmetry in Cassiopeia A Using Light Echoes", 2016, *Astrophysical Journal*, 830, 73, (**lead by my NYU grad student, includes another NYU grad student and NYU postdoc**)
18. Y.-Q. Liu, **M. Modjaz**, F. Bianco & O. Graur (**2016**), "Analyzing the Largest Spectroscopic Dataset of Stripped Supernovae to Improve Their Identifications and Constrain Their Progenitors", 2016, *Astrophysical Journal*, 827, 90 (**only NYU people, lead by my NYU grad student**)
17. **M. Modjaz**, Y.-Q. Liu, F. Bianco & O. Graur (**2016**), "The Spectral SN-GRB Connection: Systematic Spectral Comparisons between Type Ic Supernovae, and broad-lined Type Ic Supernovae with and without Gamma-Ray Bursts ", 2016, *Astrophysical Journal*, 832, 108, (**only NYU people: with 2 NYU postdocs and NYU grad student**)
16. F. Bianco, & **M. Modjaz**, S.M. Oh, D. Fierroz, D., Y.-Q. Liu, L. Kewley, L., & O. Graur (**2016**), "Monte Carlo Method for Calculating Oxygen Abundances and Their Uncertainties from Strong-Line Flux Measurements", 2016, *Astronomy & Computing*, 16, 54, (**lead by NYU postdoc, includes another NYU postdoc, NYU grad student and 2 NYU undergrads**)
15. O. Graur, F. Bianco, & **M. Modjaz** (**2015**), "A unified explanation for the supernova rate-galaxy mass dependency based on supernovae discovered in Sloan galaxy spectra", 2015, *MNRAS*, 450, 905 (**only NYU people; lead by 2 NYU postdocs**)
14. F. Bianco, **M. Modjaz** et al. (**2014**), "Multi-color Optical and NIR Light Curves of 64 Stripped-Envelope Core-Collapse Supernovae", 2014, *ApJS*, 213, 19 (with NYU postdoc Fed Bianco)
13. **M. Modjaz**, et al. (**2014**), "Optical Spectra of 73 Stripped Envelope Supernovae", 2014, *Astronomical Journal*, 147, 99 (**with NYU grad student Yuqian Liu and NYU postdoc Federica Bianco**)
12. D. Perley, **M. Modjaz**, et al. (**2012**), "The Luminous Infrared Host Galaxy of Short-Duration GRB 100206A ", *Astrophysical Journal*, 2012, 758, 122
11. **M. Modjaz** (**2011**), "Stellar Forensics with the Supernova-GRB Connection", 2011, *AN*, 332, 434
10. **M. Modjaz et al.** (**2011**), "Progenitor Diagnostics for Stripped Core-Collapse Supernovae: Measured Metallicities at Explosion Sites", 2011, *ApJ*, 731, L4
9. **M. Modjaz et al.** (**2009**), "From Shock Breakout to Peak and Beyond: Extensive Panchromatic Observations of the Type Ib Supernova 2008D associated with Swift X-ray Transient 080109", 2009, *ApJ*, 702, 226
8. **M. Modjaz**, R. P. Kirshner, S. Blondin, P. Challis, T. Matheson, "Double-peaked Oxygen Lines Are not Rare in Nebular Spectra of Core-Collapse Supernovae", **2008b**, *ApJL*, 687, L9

7. **M. Modjaz et al. (2008a)**, “Measured Metallicities at the Sites of Local Broad-Lined Type Ic Supernovae and Implications for the SN-GRB Connection”, *AJ*, 135 1136
6. S. Immler, **M. Modjaz**, et al. (2007), “Swift and Chandra Detections of Supernova 2006jc: Evidence for Interaction of the Supernova Shock with a Circumstellar Shell”, *ApJ*, 674, L85
5. D. Kocevski, **M. Modjaz**, J. S. Bloom, R. Foley, D. Starr, C. H. Blake, E. E. Falco, N. R. Butler, M. Skrutskie, & A. Szentgyorgyi, “Multicolor Infrared Observations of SN 2006aj, the Supernova Associated with XRF 060218 - Paper I”, 2007, *ApJ*, 663, 1180
4. **M. Modjaz et al. (2006)**, “Early-Time Photometry and Spectroscopy of the Fast Evolving SN 2006aj Associated with GRB 060218”, 2006, *ApJ*, 645, L21
3. **M. Modjaz**, J. M. Moran, P. T. Kondratko, & L. J. Greenhill (2005), “Probing the Magnetic Field at Subparsec Radii in the Accretion Disk of NGC 4258”, 2005, *ApJ*, 626, 104
2. **M. Modjaz**, W. Li, A. V. Filippenko, J. Y. King, D. C. Leonard, T. Matheson, R. R. Treffers, Richard R. & A. G. Riess, “The Subluminous Type Ia Supernova 1998de in NGC 252”, 2001, *PASP*, 113, 308

Code & Data product releases by my NYU group

4. Y. Liu, F. Bianco, & **M. Modjaz (2016)**, “SESNspectraLib”, released under DOI:10.5281/zenodo.58767 on <https://github.com/nyusngroup/SESNspectraLib> (**only NYU people**)
3. Y. Liu, F. Bianco, & **M. Modjaz (2016)**, “SESNtemple”, released under DOI:10.5281/zenodo.58766 on <https://github.com/nyusngroup/SESNtemple> (**only NYU people**)
2. F. Bianco, & **M. Modjaz et al. (2015)**, “Monte Carlo Method for Calculating Oxygen Abundances and Their Uncertainties from Strong-Line Flux Measurements”, 2015, 2015ascl.soft05025B & <https://github.com/nyusngroup/pyMCZ>
1. Liu & **Modjaz (2014)**, “SuperNova IDentification spectral templates of 70 stripped-envelope core-collapse supernovae”, arXiv-1405.1437; <http://cosmo.nyu.edu/SNYU/spectra/>

Other Articles in Refereed Journals

41. Cucchiara, A. et al. (incl. **M. Modjaz**), “Happy Birthday Swift: Ultra-long GRB 141121A and Its Broadband Afterglow”, 2015, *ApJ*, 812, 122
40. Ben-Ami, S., et al. (incl. **M. Modjaz**), “Ultraviolet Spectroscopy of Type IIb Supernovae: Diversity and the Impact of Circumstellar Material”, 2015, *ApJ*, 803, 40
39. Friedman, A., et al. (incl. **M. Modjaz**), “CfAIR2: Near Infrared Light Curves of 94 Type Ia Supernovae”, 2015, *ApJS*, 220, 9,
38. Faran, T., et al. (incl. **M. Modjaz**), “A Sample of Type II-L Supernovae”, 2014, *MNRAS*, 445, 554

37. Faran, T., et al. (incl. **M. Modjaz**), "Photometric and Spectroscopic Properties of Type II-P Supernovae", 2014, MNRAS, 442, 844
36. Kelly, P. L.; Filippenko, A. V.; **Modjaz, M.**; Kocevski, D. 2014, "The Host Galaxies of Fast-Ejecta Core-Collapse Supernovae", ApJ, 789, 23
35. Ben-Ami, S. et al. (incl. **M. Modjaz**), "SN2010mb: Direct evidence for a supernova interacting with a large amount of hydrogen-free circumstellar material", 2014, ApJ, 785, 37
34. Drout, M. et al. (incl. **M. Modjaz**), "The Fast and Furious Decay of the Peculiar Type Ic Supernova 2005ek" , 2013, ApJ, 774, 58
33. Silverman, J. et al. (incl. **M. Modjaz**), "Type Ia Supernovae Strongly Interacting with Their Circumstellar Medium", 2013, ApJS, 207, 3
32. Ben-Ami, S. et al. (incl. **M. Modjaz**), "Discovery and Early Multi-Wavelength Measurements of the Energetic Type Ic Supernova PTF12gzk: A Massive-Star Explosion in a Dwarf Host Galaxy", 2012, ApJL, 760, 33
31. Silverman, J. et al (incl. **M. Modjaz**), "Berkeley Supernova Ia Program I: Observations, Data Reduction, and Spectroscopic Sample of 582 Low-Redshift Type Ia Supernovae", 2012, MNRAS, 425, 1789
30. Blondin al (incl. **M. Modjaz**), "The Spectroscopic Diversity of Type Ia Supernovae", 2012, AJ, 143, 126
29. Levan, A. et al (incl. **M. Modjaz**), "An extremely luminous panchromatic outburst from the nucleus of a distant galaxy", 2011, Science, 333,199
28. Chornock, R. et al (incl. **M. Modjaz**), "The Transitional Stripped-Envelope SN 2008ax: Spectral Evolution and Evidence for Large Asphericity", 2011, ApJ, 739, 41
27. Li, W. et al. (incl. **M. Modjaz**), "Nearby Supernova Rates from the Lick Observatory Supernova Search. II. The Observed Luminosity Functions and Fractions of Supernovae in a Complete Sample", 2011, MNRAS, 412, 1441
26. Lewis, F. et al. (incl. **M. Modjaz**), "The double-peaked 2008 outburst of the accreting milli-second X-ray pulsar, IGR J00291+5934, 2010, A&A, 517, 72
25. Kocevski, D. et al. (incl. **M. Modjaz**), "Limits on radioactive powered emission associated with a short-hard GRB 070724A in a star-forming galaxy", 2010, MNRAS, 404, 963
24. Maurer, J. I. et al (incl. **M. Modjaz**), "Characteristic velocities of stripped-envelope core-collapse supernova cores", 2010, MNRAS, 402, 161
21. Levesque, Emily M. et al. (incl. **M. Modjaz**), "GRB090426: the environment of a rest-frame 0.35-s gamma-ray burst at a redshift of 2.609", 2010, MNRAS, 401, 963
22. Kocevski, D., West, A., & **M. Modjaz** 2009, "Modeling The GRB Host Galaxy Mass Distribution: Are GRBs Unbiased Tracers of Star Formation?", 2009, ApJ, 702, 377

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