

Iair Arcavi

(pronounced “ya-eer”)

Curriculum Vitae

February 6, 2022

- PERSONAL INFORMATION** *Born:* March 24, 1982, Israel.
Address: School of Physics and Astronomy
Tel Aviv University,
Tel Aviv, 6997801, Israel
Telephone: cell: +972-54-2082314
office: +972-3-6404258
E-mail: arcavi@gmail.com, arcavi@tauex.tau.ac.il
Homepage: <http://www.astro.tau.ac.il/~arcavi>
Languages: Hebrew, English, Spanish.
- RESEARCH INTERESTS** Core collapse supernovae and their massive-star progenitors; Tidal disruptions of stars by super-massive black holes; Electromagnetic counterparts of gravitational-wave sources; Asteroseismology of massive stars; Transient surveys, robotic observations and real-time rapid telescope triggering.
- POSITIONS** *October 2018 - Current:* Senior Lecturer (equivalent to Assistant Professor in the US), Tel Aviv University, Israel.
- September 2016 - August 2018:* NASA Einstein Postdoctoral Fellow, University of California, Santa Barbara.
- January 2014 - August 2016:* Postdoctoral Fellow, Las Cumbres Observatory Global Telescope & Kavli Institute for Theoretical Physics, University of California, Santa Barbara.
- September - December 2013:* Visiting General Member, Kavli Institute for Theoretical Physics, University of California, Santa Barbara.
- August - December 2013:* Postdoctoral Fellow, Weizmann Institute of Science, Rehovot, Israel.

EDUCATION

Weizmann Institute of Science, Rehovot, Israel

Ph.D. in Physics, 2013

Thesis title: The Core Collapse Supernova Population:
Revealing the Different Ways Through Which Massive
Stars End Their Lives

Supervisor: Prof. Avishay Gal-Yam

Tel Aviv University, Tel Aviv, Israel

B.Sc. in Physics and Mathematics, Summa Cum Laude, 2007

HONORS & AWARDS

Rector's Excellence in Teaching Award, Tel Aviv University, 2021.

Rector's Excellence in Teaching Award, Tel Aviv University, 2020.

Nathan Rosen Prize, Israel Physical Society, 2020.

Excellence in Teaching Award, Tel Aviv University, 2019.

Azrieli Global Scholarship, Canadian Institute for Advanced Research, 2019.

Alon Fellowship, Israel Council for Higher Education, 2018.

Einstein Postdoctoral Fellowship, NASA, 2016.

Harvey L. Karp Discovery Award, UC Santa Barbara, 2015.

Dr. Moshe Gilboa Ph.D. Excellence Scholarship, Wolf Foundation, 2012.

Dean's prize for M.Sc. students, Weizmann Institute of Science, 2011.

Dean's honor list, Faculty of Exact Sciences, Tel Aviv University, 2007.

Dean's honor list, Faculty of Exact Sciences, Tel Aviv University, 2005.

The Chaim Langzem Excellence Scholarship, Tel Aviv University, 2005.

OBSERVING EXPERIENCE

30 nights with the 1 m telescope at the Wise Observatory, Israel.

20 nights with the 5 m Hale Telescope at the Palomar Observatory, California, USA.

11 nights with the 3.5 m New Technology Telescope at La Silla Observatory, Chile.

6 nights with the 10 m Keck Telescopes at the Mauna Kea Observatory, Hawaii, USA.

3 nights with the 4 m Mayall Telescope at the Kitt Peak National Observatory,

Arizona, USA.

2 nights with the 4.2 m William Herschel Telescope at the Roque de los Muchachos Observatory, La Palma, Spain.

PI of accepted proposals for observations with the *Hubble Space Telescope*:

- Cycle 21: Determining the Progenitor of SN2011dh as a Test of Supernova Shock Cooling Models (1 orbit)
- Cycle 24: What is Enhancing the Tidal Disruption Rate of Stars in Post-Starburst Galaxies? (25 orbits)
- Cycle 25: What Type of Star Made the One-of-a-kind Supernova iPTF14hls? (1 orbit)

PI of accepted proposal for combined observations with *Swift* and the JVLA:

- Cycle 11: A Window to Quiescent Massive Black Holes: Swift Followup of Tidal Disruption Flares
- Cycle 13: Tidal Disruption Events - A Window to Quiescent Super-Massive Black Holes and Accretion Physics

PI of accepted proposals for observations with the Las Cumbres Observatory network:

- 2014A: Asteroseismology of Massive Stars - Testing the Network's Continuous Observation Capabilities
- 2014B: Towards the First Sample of Tidal Disruption Light Curves and Spectra
- 2015A: LCOGT Optical Monitoring of Tidal Disruption Events in Conjunction with Swift and the JVLA
- 2015B: LCOGT Classification and Followup of Tidal Disruption Events in Conjunction with Swift and the JVLA
- 2016A – 2017AB: Classification and Followup of Tidal Disruption Events
- 2016A – 2017AB: Searching for Optical Counterparts to Gravitational Waves
- 2018A: Nearby Galaxy Reference Images for Gravitational Wave, Young Supernova and Nuclear Transient Followup
- 2018A – 2022A: Mapping the Diversity and Emission Mechanisms of Transients in Galaxy Centers
- 2018B – 2020B: Discovery and Follow-up of Optical Counterparts to Gravitational-Wave Events (Key Project)
- 2021A: Asteroseismology of Massive Stars
- 2021B – 2023A: Discovery and Follow-up of Optical Counterparts to Gravitational-Wave Events (Key Project)

PI of accepted proposal for observations with Gemini:

- 2019B: Mapping the Diversity and Emission Mechanisms of SMBH-Related Transients

PI of accepted proposal for observations with the Liverpool Telescope:

- 2021A (via OPTICON): Mapping the Diversity and Emission Mechanisms of Transients in Galaxy Centers

PI of accepted DDT proposal for observations with the JVLA:

- What is Powering SN 2011dh at Late Times? A VLA Investigation

Responsible for the Palomar Transient Factory core collapse supernova followup effort.

Chair of the TDE working group for PESSTO, BlackGEM and ULTRASAT.

Deputy chair of TDE working group for SoXS.

Chair of the “Extreme Supernovae” working group for SoXS.

GRANTS

Harvey L. Karp Discovery Award, 2015: \$48,000

Swift-GI-1114220, 2015: \$39,972

Einstein Fellowship Research Award, 2016: \$103,683

Hubble Space Telescope Observing Grant, 2017: \$114,282

Swift-GI-1316192, 2017: \$39,981

LSSTC Grant Award 2017-UG09, 2017: \$6,455

Einstein Fellowship Research Award, 2017: \$102,616

Hubble Space Telescope Observing Grant, 2017: \$10,960

Alon Fellowship, 2018-2021: ~1,000,000 NIS (~\$270,000)

Israel Science Foundation Personal Grant, 2018: 278,000 NIS (~\$76,000)

United States - Israel Binational Science Foundation, 2019-2023: \$162,800
with D. A. Howell

Canadian Institute for Advanced Research Azrieli Global Scholarship, 2019-2020: \$100,000 CAD (~\$75,000)

Tel Aviv University Vice President Research Encouragement Grant, 2019: 30,000 NIS (~\$8,500)

Israel Science Foundation Center of Excellence Grant, 2019-2023: 8,167,080 NIS (~\$2,200,000)

with E. Waxman, A. Gal-Yam, E. Ofek, D. Kushnir, E. Behar

European Research Council Starting Grant, 2020-2025: 1,998,625 Eur (~\$2,188,045)

Pazi Foundation, 2022-2026: 299,000 NIS (~\$93,000)

with A. Gilkis and E. Sagi

TEACHING
EXPERIENCE

Lecturer of the course Introduction to Astrophysics for non-science majors, Tel Aviv University, 2019-.

Average student evaluation scores: 97.6% (2019), 95.7% (2020), .

Lecturer of the course Physics B (Electricity and Magnetism) for Life Sciences students, Tel Aviv University, 2019-.

Average student evaluation scores: 97.6% (2019), 93.8% (2020).

Lecturer of the course Physics A (Classical Mechanics) for Life Sciences students, Tel Aviv University, 2019-.

Average student evaluation scores: 96.8% (2019), 97.9% (2020).

Visiting lecturer for undergraduate astronomy courses at UC Santa Barbara and the Santa Barbara City College, 2015-2018.

Lecturer of the course Introduction to Astrophysics, Interdisciplinary Center (IDC), Herzelia, 2011-2013.

Average student evaluation scores: 93.8% (2011), 96% (2012), 97.2% (2013).

Teaching Assistant in the Rothschild program for teachers (Introductions to Astrophysics, Electromagnetism) and in a graduate course (Introduction to Astrophysics), Weizmann Institute of Science, 2010-2013.

Teaching Assistant in the undergraduate courses Physics 1 & 2 and Calculus 1 & 2, Faculty of Agriculture, Hebrew University, 2008-2013.

Mentoring of high-school, undergraduate and graduate students as part of the Dr. Bessie F. Lawrence International Summer Science Institute, the Amos De Shalit Summer School and the course Experimental Projects, Weizmann Institute of Science, 2010-2012.

Visiting lecturer to high school students, “Young @ Science”, Weizmann Institute of Science, 2010-2013.

Visiting lecturer at teacher courses for the Science Teaching Dept. at the Weizmann Institute of Science, the Davidson Institute of Science Education and the Talpiot Academic College for Education, 2005-2010.

ACTIVE
PARTICIPATION
IN SCIENTIFIC
MEETINGS

Year	Meeting	Activity
2022	[Future] Illuminating Gravitational Waves: Electromagnetic Counterparts to Neutron Star Mergers Rehovot, Israel	Organizer
2022	HEAD-19 Pittsburgh, PA, USA	Invited Talk
2021	Gravitational Wave Physics & Astronomy Workshop	SOC Member

	Hanover, Germany	
2021	ULTRASAT Science Workshop Rehovot, Israel	SOC Member Talk
2021	EAS Annual Meeting Virtual	Special Session SOC Member
2021	Rubin-Athena Synergy Workshop Virtual	Invited Talk
2021	Gaia Alerts Workshop Virtual	Invited Talk
2020	The CogX Global Leadership Summit and Festival of AI & Breakthrough Technology Virtual	Invited Talk
2020	Tidal Disruptions in Kyoto: Confronting Theory With Observations Kyoto, Japan	SOC Member
2019	Gaia Alerts Workshop Catania, Italy	Invited Talk
2019	Gravitational Wave Physics & Astronomy Workshop Tokyo, Japan	SOC Member
2019	Black Holes and Neutron Stars with Gravitational Waves Kyoto, Japan	Invited Review Talk
2019	The Extragalactic Explosive Universe Garching, Germany	Invited Review Talk
2019	Astrophysics in the LIGO/Virgo Era Aspen, CO, USA	Accepted Participation
2019	BlackGEM Science Meeting Nijmegen, The Netherlands	Talk
2019	Enabling Multi-Messenger Astrophysics in the Big Data Era	Invited Review Talk

	Baltimore, MD, USA	
2019	The Deaths and Afterlives of Stars Baltimore, MD, USA	Invited Review Talk
2019	21st Century Software and Data Analysis Tools for Physics and Astronomy Tel Aviv, Israel	Initiator, Organizer
2019	Radio Astronomy - A Time Domain Perspective Jerusalem, Israel	Invited Talk
2019	Astronomical Time Series 2019 Heidelberg, Germany	Invited Talk
2018	Gravitational Wave Physics & Astronomy Workshop College Park, MD, USA	SOC Member
2018	Massive Stars and Supernovae Bariloche, Argentina	Talk
2018	Using Tidal Disruption Events to Study Super- Massive Black Holes Bern, Switzerland	Convener
2018	Adventures in Astrophysics - A Symposium honoring Alex Filippenko's 60th Birthday Aptos, CA, USA	Invited Talk
2018	Transients in New Surveys: the Undiscovered Country Leiden, The Netherlands	Invited Talk
2018	Unsolved Problems in Astrophysics and Cos- mology Budapest, Hungary	Invited Talk
2018	SciFoo Mountain View, CA, USA	Invited Participation
2018	Shocking Supernovae	Invited Talk

Stockholm, Sweden		
2018	ISSI Team Meeting: Using Tidal Disruption Events to Study Super-Massive Black Holes Bern, Switzerland	Convener
2018	LIGO-EM Town Hall Boston, MA, USA	Talk
2018	The Transient Universe Singapore	Invited Talks
2018	231st AAS Meeting Washington, DC, USA	Talk
2017	GW170817: The First Double Neutron Star Merger Santa Barbara, CA, USA	Invited Talk
2017	IAU Symposium 338 Baton Rouge, LA, USA	Talk
2017	Einstein Symposium Boston, MA, USA	Talk
2017	TDE17: Piercing the Sphere of Influence Cambridge, UK	Invited Talk
2017	Ringberg Supernova Workshop Tegernsee, Germany	Talk
2017	European Week of Astronomy and Space Science Prague, Czech Republic	Invited Review Talk
2017	ISSI Team Meeting: Using Tidal Disruption Events to Study Super-Massive Black Holes Bern, Switzerland	Invited Talk
2017	Generation-GW: Diving into Gravitational Waves St. Thomas, US Virgin Islands	Invited Talk

2017	Phenomena, Physics, and Puzzles Of Massive Stars and their Explosive Outcomes Santa Barbara, CA, USA	Invited Talks	
2016	ISSI Team Meeting: Using Tidal Disruption Events to Study Super-Massive Black Holes Bern, Switzerland	Invited Talk	
2016	Einstein Symposium Boston, MA, USA	Talk	
2016	MIAPP Workshop: Supernovae - The Outliers Munich, Germany	Invited Review Talk	
2016	Supernovae Through the Ages Easter Island, Chile	Talk	
2016	European Week of Astronomy and Space Science Athens, Greece	Symposium Chair Talk	Co-Chair
2016	228th AAS Meeting San Diego, CA, USA	Poster	
2016	Use of Small Telescopes in the Giant Era Chianti, Italy	Invited Talk	
2016	LSST Transient and Variable Science Workshop Chicago, IL, USA	Talk	
2016	227th AAS Meeting Kissimmee, FL, USA	Talk	
2015	AMON Workshop Penn State, USA	Invited Talk	
2015	TDE School & Workshop Jerusalem, Israel	Initiator SOC Member Talks	
2015	Big Data in Astronomy Workshop	Invited Talk	

	Tel Aviv, Israel	
2015	Gaia Transients Workshop Cambridge, UK	Talk
2015	iPTF Summer School Pasadena, CA, USA	Invited Talk
2015	PESSTO Meeting Paris, France	Talks
2015	Hotwiring the Transient Universe IV Santa Barbara, CA, USA	Talks
2015	225th AAS Meeting Seattle, WA, USA	Talk
2014	60th Meeting of the Israeli Physical Society Be'er Sheva, Israel	Talk
2014	I-Core Transients' Unsolved Mysteries Work- shop Eilat, Israel, 2014	Invited Talk
2014	iPTF Summer School Pasadena, CA, USA	Invited Talks
2014	iPTF Science Workshop Stockholm, Sweden	Talk
2013	Hotwiring the Transient Universe III Santa Fe, NM, USA	Talk
2013	iPTF Science Workshop Santa Barbara, CA, USA	Talk
2013	Supernovae and Gamma-Ray Bursts Kyoto, Japan	Talk
2013	iPTF Technical Workshop Pasadena, CA, USA	Invited talk
2013	221st AAS Meeting	Thesis Talk

	Long Beach, CA, USA	
2012	58th Meeting of the Israeli Physical Society Jerusalem, Israel	Talk
2012	PTF Workshop Santa Barbara, CA, USA	Talk
2012	Gamma Ray Bursts in the Era of Rapid Follow-up Liverpool, UK	Invited talk
2012	Fireworks Oxford, UK	Talk
2012	IAU Symposium 279 Nikko, Japan	Talk
2011	IAU Symposium 285 Oxford, UK	Poster
2011	PTF Workshop Santa Barbara, CA, USA	Talk
2011	Fireworks Pasadena, CA, USA	Invited talk
2011	56th Meeting of the Israeli Physical Society Tel Aviv, Israel	Poster
2011	The Cosmic Enigma London, UK	Poster
2011	PTF Workshop Santa Barbara, CA, USA	Talk
2010	Progenitors and Environments of Stellar Explosions Paris, France	Invited talk Poster
2009	214th AAS Meeting Pasadena, CA, USA	Poster

INVITED
SEMINARS AND
COLLOQUIA

University of Edinburgh, UK, Astrophysics Seminar, May 2022 (Future)
Open University, Israel, ARCO Seminar, March 2022 (Future)
DESY Zeuthen, Germany, Astroparticle Seminar, May 2021
DESY Zeuthen, Germany, Astroparticle Seminar, May 2021
Carnegie Observatories, Colloquium, May 2021
MIT, Astrophysics Colloquium, Apr. 2021
Ben Gurion University, Israel, Astrophysics Seminar, Mar. 2021
University of Turku, Finland, Astrophysics Seminar, Nov. 2020
Institute of Astronomy, KU Leuven, Belgium, Colloquium, Nov. 2020
Hebrew University of Jerusalem, Israel, High-Energy Astrophysics Seminar, May 2020
University of Warsaw, Poland, Astronomy Seminar, Jun. 2019
Bar-Ilan University, Israel, Physics Colloquium, May 2019
Albert Einstein Institute, Potsdam, Germany, Astrophysical and Cosmological Relativity Seminar, Feb. 2019
University of Colorado, Boulder, APS Colloquium, Nov. 2017
NOAO & Steward Observatory Joint Colloquium, May 2017
UC Berkeley, TAC Seminar, Feb. 2017
UC Davis, Cosmology Seminar, Oct. 2016
Tel Aviv University, Physics Colloquium, Nov. 2015
Georgia Tech, CRA Seminar, Oct. 2015
Hebrew University of Jerusalem, Astrophysics Seminar, Dec. 2014
UC Santa Barbara, Astrophysics Seminar, Mar. 2014
Ohio State University, Center for Cosmology and AstroParticle Physics Seminar, Oct. 2013
Stockholm University, Oskar Klein Center for Cosmoparticle Physics Colloquium, Aug. 2013
San Diego State University, Astrophysics Colloquium, Jul. 2013
Weizmann Institute of Science, Annual Physics Students Colloquium, Jun. 2013
Tel Aviv University, Astrophysics Seminar, Feb. 2013
Technion, Israel Institute of Technology, Astrophysics Seminar, Nov. 2012
American Museum of Natural History, Astrophysics Seminar, Nov. 2012

POSTDOCS &
GRADUATE
STUDENTS

Avishai Gilkis, Postdoc (with Dan Maoz), 2021-.
Cristina Barbarino, Postdoc (with Ehud Nakar), 2020-2021.
Marco Lam, Postdoc (with Dan Maoz), 2020-.
Wenxiong Li, Postdoc (with Ehud Nakar), 2020-.
Lydia Makrygianni, Postdoc (with Benny Trakhtenbrot), 2020-.

Ido Keinan, MSc Student, 2021-.
Sondos Mohsen, MSc Student, 2020-.
Noi Shitrit, MSc Student, 2019-.
Sara Faris, MSc Student, 2019-.

SERVICE

Co-Editor for the International Space Science Institute book on Tidal Disruption Events (published by Springer).
Referee for ApJ, MNRAS, A&A, PASJ, Nature, Nature Astronomy.
Review work for NASA panels (*JWST*, *HST* DDT, NPP, NESSF, ADAP).
Review work for the Israeli Ministry of Science, Technology and Space (Israel Science Foundation, Israel Space Agency).
Review work for the NOAO, NAOC, LCOGT and Liverpool Telescope time allocation committees.
Head of the TDE Subgroup of the Transients and Variable Stars Science Collaboration for LSST (2016-2019).
Chair of the colloquium committee, School of Physics and Astronomy, Tel Aviv University, 2019.
Chair of the astrophysics seminar committee, School of Physics and Astronomy, Tel Aviv University, 2020-2021.
Member of the ad-hoc committee for technical means for online teaching, Faculty of Exact Sciences, Tel Aviv University, 2020.
Member of the Executive Committee of the Israel Physical Society (IPS) Division of Astronomy, Planetary and Space Sciences (DAPSS), 2019-.

OUTREACH
ACTIVITIES

Founder, organizer and host at Astronomy on Tap Tel Aviv, 2019-.

Guest at the “Little Big Science” podcast, 2020.

Speaker at “Pausa”, Tel Aviv University, 2019.

Speaker at “Women Scientists of the Future”, Tel Aviv University, 2018-.

Speaker and panelist at the San Diego Comic Fest, 2018.

Founder, organizer, host and speaker at Astronomy on Tap Santa Barbara, speaker at the Santa Barbara City College Astronomy Club, Cafe KITP, the Santa Barbara Astronomical Unit, 2014-2018.

Speaker at the Israeli Astronomical Association, the Davidson Institute of Science Education, the Givatayim Rotary Club, Science on Tap Tel Aviv and others, 2011-2013.

Writing for the Israeli popular science magazine “Galileo”, 2011-2013.

Astronomical field trips, tours of the Wise Observatory and lectures as part of the “Astronomy for All” activity at the Davidson Institute of Science Education and as part of Weizmann Student Council events, 2010-2013.

Guidance at Wise Observatory open days, 2010-2012.

Bi/Weekly translations of the Astronomy Picture of the Day (APOD) into Hebrew, 2010-2011.

OTHER
ACTIVITIES

Chairman of the Student Council, Weizmann Institute of Science, 2012.

Vice-Chairman of the Student Council, Weizmann Institute of Science, 2011.

REFEREED
ARTICLES

Citations: 12,700+

H-Index: 59

1. Gal-Yam, A., et al., *Supernova 2007bi as a Pair-Instability Explosion*, 2009, Nature, 462, 624.
2. Fraser, M., et al., *On the Progenitor and Early Evolution of the Type II Supernova 2009kr*, 2010, ApJL, 714, 280.
3. Perets, H. B., et al., *A Faint Type of Supernova From a White Dwarf With a Helium-Rich Companion*, 2010, Nature, 465, 322.
4. **Arcavi, I.**, et al., *Core-Collapse Supernovae from the Palomar Transient Factory: Indications for a Different Population in Dwarf Galaxies*, 2010, ApJ, 721, 777.
5. Kasliwal, M. M., et al., *Rapidly Decaying Supernova 2010X: A Candidate “Ia” Explosion*, 2010, ApJL, 723, 98.

6. Ofek, E. O., et al., *Supernova PTF 09uj: A Possible Shock Breakout From a Dense Circumstellar Wind*, 2010, ApJ, 724, 1396.
7. Perets, H. B., Kulkarni, S. R., **Arcavi, I.**, et al., *An Emerging Class of Bright, Fast-Evolving Supernovae With Low Mass Ejecta*, 2011, ApJ, 730, 89.
8. Kasliwal, M. M., Kulkarni, S.R., **Arcavi, I.**, et al., *PTF10fqs: A Luminous Red Nova in the Spiral Galaxy Messier 99*, 2011, ApJ, 730, 134.
9. Smith, A. M., et al., *Galaxy Zoo Supernovae*, 2011, MNRAS, 412, 1309.
10. Sullivan, M., et al., *The Subluminous and Peculiar Type Ia Supernova PTF10dav*, 2011, ApJ, 732, 118.
11. Quimby R. M., et al., *Hydrogen-Poor Superluminous Stellar Explosions*, 2011, Nature, 474, 487.
12. Gal-Yam et al., Kasliwal, M. M., **Arcavi, I.**, et al., *Real-Time Detection and Rapid Multiwavelength Follow-up Observations of a Highly Subluminous Type II-P Supernova from the Palomar Transient Factory Survey*, 2011, ApJ, 736, 159.
13. Fraser, M., et al., *SN 2009md: Another Faint Supernova From a Low Mass Progenitor*, 2011, MNRAS, 417, 1417.
14. Corsi, A., et al., *PTF10bzf (SN 2010ah): A Broad-Line Ic Supernova Discovered by the Palomar Transient Factory*, 2011, ApJ, 741, 76.
15. Drout, M. R., et al., *The First Uniform and Systematic Study of Type Ibc Supernova Multi-Color Light-Curves*, 2011, ApJ, 741, 97.
16. Van Dyk, S. et al., *The Progenitor of Supernova 2011dh/PTF11eon in Messier 51*, 2011, ApJL, 741, 28.
17. **Arcavi, I.**, et al., *SN2011dh: Discovery of a Type IIb Supernova From a Compact Progenitor in the Nearby Galaxy M51*, 2011, ApJL, 742, 18.
18. Maguire, K., et al., *PTF10ops - A Subluminous, Normal-Width Light Curve Type Ia Supernova in the Middle of Nowhere*, 2011, MNRAS, 418, 747.
19. Kiewe, M., Gal-Yam, A., **Arcavi, I.**, et al., *Caltech Core-Collapse Project (CCCP) Observations of Type II_n Supernovae: Typical Properties and Implications for Their Progenitor Stars*, 2012, ApJ, 744, 10.
20. Smith, N. et al., *SN 2010jp (PTF10aaxi): A Jet in a Type II Supernova*, 2012, MNRAS, 420, 1135.
21. Corsi, A., et al., *Evidence for a Compact Wolf-Rayet Progenitor for the Type Ic Supernova PTF10vgv*, 2012, ApJL, 747, 5.
22. Cenko, S. B., et al., *PTF10iya: A Short-Lived, Luminous Flare From the Nuclear Region of a Star-Forming Galaxy*, 2012, MNRAS, 420, 2684.
23. Parrent, J. T., et al., *Analysis of the Early-Time Optical Spectra of SN 2011fe in M101*, 2012, ApJL, 762, 26.

24. Kasliwal, M. M., et al., *Calcium-rich Gap Transients In The Remote Outskirts Of Galaxies*, 2012, ApJ, 755, 161.
25. Ofek E. O., et al., *The Palomar Transient Factory Photometric Catalog 1.0*, 2012, PASP, 124, 854.
26. Van Dyk, S., et al., *The Red Supergiant Progenitor of Supernova 2012aw (PTF12bvh) in Messier 95*, 2012, ApJ, 756, 131.
27. **Arcavi, I.**, et al., *Caltech Core Collapse Project (CCCP) Observations of Type II Supernovae: Evidence for Three Distinct Photometric Subtypes*, 2012, ApJL, 756, 30.
28. Barone-Nugent, R. L., et al., *Near-Infrared Observations of Type Ia Supernovae: The Best Known Standard Candle for Cosmology*, 2012, MNRAS, 425, 1007.
29. Maguire K., et al., *Hubble Space Telescope Studies of Low-Redshift Type Ia Supernovae: Evolution With Redshift and Ultraviolet Spectral Trends*, 2012, MNRAS, 426, 2359.
30. Ben-Ami S., et al., *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. Ofek E. O., et al., *X-ray Emission From Supernovae In Dense Circumstellar Matter Environments: A Search For Collisionless Shocks*, 2013, ApJ, 763, 42.
32. Ofek E. O., et al., *An Outburst From a Massive Star 40 Days Before a Supernova Explosion*, 2013, Nature, 494, 65.
33. Hachinger S., et al., *The UV/Optical Spectra of the Type Ia Supernova SN 2010jn: A Bright Supernova With Outer Layers Rich in Iron-Group Elements*, 2013, MNRAS, 429, 2228.
34. **Arcavi, I.**, et al., *Supernova 2003ie Was Likely a Faint Type IIP Event*, 2013, AJ, 145, 99.
35. Levitan, D., et al., *Five New Outbursting AM CVn systems Discovered by the Palomar Transient Factory*, 2013, MNRAS, 430, 996.
36. Terziev E., Law N., **Arcavi I.**, et al., *Millions of Multiples: Detecting and Characterizing Close-Separation Binary Systems in Synoptic Sky Surveys*, 2013, ApJS, 206, 18.
37. Silverman et al., *Type Ia Supernovae Strongly Interacting with Their Circumstellar Medium*, 2013, ApJS, 207, 3.
38. Cao, Y., Kasliwal, M. M., **Arcavi, I.**, et al., *Discovery, Progenitor & Early Evolution of a Stripped Envelope Supernova iPTF13bvn*, ApJL, 775, 7.
39. Singer, L. P., et al., *Discovery and Redshift of an Optical Afterglow in 71 Square Degrees: iPTF13bxl and GRB 130702A*, ApJL, 776, 34.

40. Horesh, A., et al., *PTF12gzk - A Rapidly Declining, High-Velocity Type Ic Radio Supernova*, 2013, ApJ, 778, 63.
41. Helou, G., et al., *The Mid-Infrared Light Curve of Nearby Core-Collapse Supernova SN 2011dh (PTF 11eon)*, 2013, ApJL, 778, 19.
42. Silverman, J., M., et al., *SN 2000cx and SN 2013bh: Extremely Rare, Nearly Twin Type Ia Supernovae*, 2013, MNRAS, 436, 1225.
43. Horesh, A., et al., *An Early & Comprehensive Millimeter and Centimeter Wave and X-ray Study of Supernova 2011dh: A Non-Equipartition Blastwave Expanding into A Massive Stellar Wind*, 2013, MNRAS, 436,1258.
44. Ofek, E. O., et al., *SN2010jl: Optical to Hard X-Ray Observations Reveal an Explosion Embedded in a Ten Solar Mass Cocoon*, 2014, ApJ, 781, 42.
45. Corsi, A., et al., *A Multi-wavelength Investigation of a Radio-loud Supernova Interacting with Helium-dominated Circumstellar Material*, 2014, ApJ, 782, 42.
46. Pan, Y.-C., et al., *The Host Galaxies of Type Ia Supernovae Discovered by the Palomar Transient Factory*, 2014, MNRAS, 438, 1391.
47. Valenti, S., et al., *The First Month of Evolution of the Slow Rising Type II-P SN 2013ej in M74*, 2014, MNRAS, 438, 101.
48. Goobar, A., et al., *The Rise of SN 2014J in the Nearby Starburst Galaxy M82*, 2014 ApJL, 784, 12.
49. Ben-Ami, S., et al., *SN 2010mb: Direct Evidence for a Supernova Interacting with a Large Amount of Hydrogen-free Circumstellar Material*, 2014, ApJ, 785, 37.
50. Fremling, C., et al., *The Rise and Fall of the Type Ib Supernova iPTF13bvn - Not a Massive Wolf-Rayet Star*, 2014, A&A, 565, 114.
51. Gal-Yam, A., **Arcavi I.**, et al., *A Wolf-Rayet-Like Wind Around a Supernova Progenitor Identified Using Flash Spectroscopy*, 2014, Nature, 509, 471.
52. Ofek, E. O., **Arcavi I.**, et al., *Interaction-Powered Supernovae: Rise-Time vs. Peak-Luminosity Correlation and the Shock-Breakout Velocity*, 2014, ApJ, 788, 154.
53. Ofek, E. O., et al., *Precursors Prior to Supernova Explosions of Massive Stars are Common: Precursor Rates, Properties and Correlations*, 2014, ApJ, 789, 104.
54. Walker, E. S., et al., *Optical Follow-Up Observations of PTF10qts, a Luminous Broad-Lined Type Ic Supernova Found by the Palomar Transient Factory*, 2014, MNRAS, 442, 2768.
55. **Arcavi, I.**, et al., *A Continuum of H- to He-Rich Tidal Disruption Candidates With a Preference for E+A Galaxies*, 2014, ApJ, 793, 38.

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