

# Irene Salmaso

## Curriculum Vitae

✉ [irene.salmaso@inaf.it](mailto:irene.salmaso@inaf.it)

Date of birth: January 29, 1996

Nationality: Italian

ORCID ID: 0000-0003-1450-0869

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## Education

- Oct. 2020 – April 2024 **Doctorate in Astronomy (EQF level 8)**, *Dipartimento di Fisica e Astronomia "Galileo Galilei", Univesità degli Studi di Padova, Vicolo dell'Osservatorio 3, 35141 Padova PD (Italy)*
- Thesis Title: "Death of massive stars in a multi-messenger perspective".
  - Supervisor: Dr. Enrico Cappellaro (INAF – Osservatorio Astronomico di Padova).
  - Fields of study: Natural sciences, mathematics and statistics.
- Oct. 2018 – Jul. 2020 **Master's degree in Astronomy (EQF level 7)**, *Dipartimento di Fisica e Astronomia "Galileo Galilei", Univesità degli Studi di Padova, Vicolo dell'Osservatorio 3, 35141 Padova PD (Italy)*
- Thesis Title: "Characterisation of a nuclear transient in NGC6315".
  - Supervisors: Prof. Stefano Ciroi (Univesità degli Studi di Padova) & Dr. Andrea Pastorello (INAF – Osservatorio Astronomico di Padova).
  - Fields of study: Natural sciences, mathematics and statistics.
  - Final mark: 110 cum laude/110 (120 CFU).
- Oct. 2015 – Dec. 2018 **Bachelor's degree in Astronomy (EQF level 6)**, *Dipartimento di Fisica e Astronomia "Galileo Galilei", Univesità degli Studi di Padova, Vicolo dell'Osservatorio 3, 35141 Padova PD (Italy)*
- Thesis Title: "Performance study of a new photosensor for Gamma-ray Astronomy".
  - Supervisors: Prof. Mosè Mariotti (Univesità degli Studi di Padova) & Dr. Manuela Mallamaci (INFN – Padova).
  - Fields of study: Natural sciences, mathematics and statistics.
  - Final mark: 97/110 (180 CFU).

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## Work experience

- Apr. 2024 – present **Post-doc**, *INAF - Osservatorio Astronomico di Padova, Padova PD (Italy)*
- Grant title: “The troubled endpoints of life of massive stars: progenitor characterization, pre-supernova outbursts, and interacting supernovae”
  - Expected end: March 2025
- Mar. – Sep. 2022 **Erasmus+ Traineeship**, *European Southern Observatory, Garching bei München (Germany)*
- Data reduction and analysis.
  - Writing of proposals for ESO telescopes and instrumentation (X-Shooter).
  - Scientific Assistant during OPC 110 Panels.
  - Summer Students' Representative.
  - Outreach activities.
- Feb. 2022 – Oct. 2023 **Ph.D. students and Associates representative**, *Dipartimento di Fisica e Astronomia “Galileo Galilei”, Univesità degli Studi di Padova, Vicolo dell'Osservatorio 3, 35141 Padova PD (Italy)*
- Participation to Department Councils
- with the right to vote on the following matters: Department regulations; promotion and coordination of formative and research activities and organisational structure; approval of contracts and agreements regarding research activities; organisation of Ph.D. schools and courses; proposals of establishment of inter-department and inter-university centres and research consortia; establishment of general criteria for fund use; deliberation on fund, space and personnel requests; approval of financial evaluations; establishment of limits in the expenses of the Head of the Department and of the Council; distribution of techno-administrative personnel; deliberation on all relevant matters according to the University set of rules.
  - without right of vote on the following matters: proposals for activation, modification, and suppression of Courses of study; organisation of didactic work; establishment of permanent boards for teaching and research.
- Apr. – Jul. 2020 **Internship**, *INAF - Osservatorio Astronomico di Padova, Padova PD (Italy)*
- Stagiare in analysis of photometric and spectroscopic data of a transient event observed in the nucleus of a spiral galaxy.
  - Data reduction with IRAF and SNooPY.

- Jul. – Oct. 2019 **Internship, INAF - Osservatorio Astrofisico di Asiago, Asiago VI (Italy)**
- Stagiaire in transient classification and follow-up with Padova/Asiago Supernovae Research group.
  - Data reduction with IRAF e SNooPY.
  - Learning assistant during ASYAGO 2019 Asiago School for Young Astronomers with GalileoT122 Observations.

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## Conferences and schools

- 25<sup>th</sup> – 29<sup>th</sup> Sep. 2023 **Conference “LSST@Europe5”**, Poreč (Croatia)
- Talk title: “Interacting supernovae in the era of LSST”
- 14<sup>th</sup> – 16<sup>th</sup> Jun. 2023 **Conference “Copernico @50”**, Osservatorio Astrofisico di Asiago, Vicenza (Italy)
- Talk title: “L’Universo Transiente al Copernico”
- 18<sup>th</sup> – 20<sup>th</sup> Apr. 2023 **ENGRAVE Data reduction workshop**, Osservatorio di Capodimonte, Napoli (Italy)
- Talk title: “Data flow and repository”
  - LOC member
- 6<sup>th</sup> – 8<sup>th</sup> Feb. 2023 **ENGRAVE Collaboration Meeting**, Max-Planck-Institut für Astrophysik, Garching bei München (Germany)
- 3<sup>rd</sup> – 4<sup>th</sup> Nov. 2022 **GRAWITA Collaboration Meeting**, Osservatorio di Astrofisica e Scienza dello spazio di Bologna (Italy)
- 22<sup>nd</sup> Sep. 2022 **Garching SN meeting**, Max-Planck-Institut für Astrophysik, Garching bei München (Germany)
- Talk title: “Optical transients in the multi-wavelength and multimessenger era”
- 28<sup>th</sup> Aug. – 1<sup>st</sup> Sep. 2022 **Workshop “Astrophysical Polarimetry in the Time-Domain Era”**, Politecnico di Milano, Polo territoriale di Lecco (Italy)
- 25<sup>th</sup> Jul. 2022 **Astrophysics Colloquium (Invited speaker)**, Institute of Astronomy and Astrophysics, Tübingen (Germany)
- Talk title: “A multimessenger approach to interacting supernovae”
- 9<sup>th</sup> – 13<sup>th</sup> May 2022 **Conference “GTC VII Science Meeting”**, online
- Talk title: “Exploring exploding transients with GTC”

- 28<sup>th</sup> Mar. – 8<sup>th</sup> Apr. 2022 **ISAPP School 2022, “Astrophysical sources of cosmic rays”**, *Institut Pascal, Paris-Saclay University (France)*
- Talk title: “Death of massive stars in a multimessenger perspective”
- 3<sup>rd</sup> – 8<sup>th</sup> Oct. 2021 **“Scientific Communication in Astronomy” Ph.D. School**, *Centro Universitario di Bertinoro (Italy)*
- Talk title: “The strange case of SN 2020faa – a (likely) strongly-interacting supernova”
- 21<sup>st</sup> – 23<sup>rd</sup> Sep. 2021 **COST-MW Ph.D. school “Stellar spectroscopy and Astrophysical parameterisation from Gaia to Large Spectroscopic surveys”**, *online*
- 30<sup>th</sup> Aug. – 3<sup>rd</sup> Sep. 2021 **Conference “Common Envelope Physics and Outcomes (CEPO 2021)”**, *online*

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## Courses and training

- Jan. – Feb. 2023 **Diversity, Equity & Inclusion (DEI) training**, Movement Consulting for the program “Preparing for Astrophysics with Rubin LSST”, 4h
- Dec. 2022 – Jun. 2023 **Communicating science and its history: “Science from the Islamic world to today’s Europe - Cross-fertilisation between past and future”**, Università degli Studi di Padova, 24h
- Dec. 2022 **Introduction to Machine Learning**, Osservatorio Astronomico di Roma, 4h
- Jun. 2022 **Gravitational Wave Astrophysics**, Università degli Studi di Padova, 16h
- Jun. 2022 **ESO science ambassador training**, European Southern Observatory, 3.5h
- Jan. – Feb. 2022 **Stellar Populations**, Università degli Studi di Padova, 16h
- Nov. 2021 **Writing and communicating your science**, Università degli Studi di Padova, 10h
- Mar. 2021 **Management of scientific projects**, Università degli Studi di Padova, 16h
- Mar. 2021 **Supernovae and other stellar transients**, Università degli Studi di Padova, 10h
- Jan. – Feb. 2021 **Multimessenger Astroparticle Physics**, Università degli Studi di Padova, 16h
- Oct. – Nov. 2020 **Hunting SMBHs in quiescent and active galaxies**, Università degli Studi di Padova, 10h

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## Observing proposals

- As Principal Investigator:
- **P122 (Oct. 2023 – Mar. 2024):** *ESO VLT + X-Shooter* – “The late time of strongly-interacting supernovae”; 8h
  - **Feb. 2022 – Jan. 2024:** *1.82m Copernico Telescope + AFOSC* – “Nearby and Strongly-interacting Supernovae”; 16 nights per year + ToO (Large program)
  - **Period 2022A:** *2.56m Nordic Optical Telescope + ALFOSC & NOTCam* – “Strongly-interacting supernovae in the multi-messenger context”; 12h

- As Co-Investigator:
- **Period 2024A:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Observations” (P.I. Elias-Rosa); 23 hrs (queuing)
  - **Period 2023B:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Observations” (P.I. Elias-Rosa); 23 hrs (queuing)
  - **Period AOT47 (Apr. – Sep. 2023):** *3.58m Telescopio Nazionale Galileo + NICS & HARPS-N* – “Shedding light on interacting transients thanks to the brightest supernova in the last decade” (P.I. Valerin); 16 hrs (queuing)
  - **Period 2023A:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Observations” (P.I. Elias-Rosa); 23 hrs (queuing)
  - **Period 2022B:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Observations” (P.I. Elias-Rosa); 23 hrs (queuing)
  - **Feb. 2022 – Jan. 2024:** *67/92 cm Schmidt Telescope* – “Monitoring the erratic variability of Luminous Blue Variables and interacting Supernovae with the Asiago Schmidt telescope” (P.I. Reguitti); 10h/month (Large program)
  - **Period 2021B:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Spectroscopy” (P.I. Elias-Rosa); 10.4 hrs (queuing)
  - **Period 2021B:** *2.6m VLT Survey Telescope + OmegaCAM* – “Multi-Wavelength Time-Domain Science with VST and MeerKAT” (P.I. Elias-Rosa); 30.7 hrs (queuing)
  - **Period 2021B:** *3.58m Telescopio Nazionale Galileo + Dolores, 0.6m Rapid Eye Mount + ROSS & REMIR* – “Exploring the diverse landscape of interacting transients” (P.I. Valerin); Large Program of 20 & 50 hrs
  - **Period 2020B:** *10.4m Gran Telescopio Canarias + OSIRIS* – “Peeking into the Very Center of Stellar Explosions with GTC Nebular Spectroscopy” (P.I. Elias-Rosa); 10 hrs (queuing)

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## Telescope experience

- Sep. 2022 – present *Roque de los Muchachos Observatory*  
**Gran Telescopio CANARIAS**: OB submission and data reduction.
- Jan. 2021 – present *Roque de los Muchachos Observatory*  
**Nordic Optical Telescope**: OB submission and data reduction.
- Jul. 2019 – present *Asiago Astrophysical Observatory*
- **1.82m Copernico Telescope**: Telescope motion and data reduction.
  - **67/92 cm Schmidt Telescope**: Telescope motion, OB submission and data reduction.
  - **1.22m Galileo Telescope**: Telescope motion and data reduction.

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## Collaborations

- Feb. 2022 – present **LSST (Legacy Survey of Space and Time)**, <https://www.lsst.org>
- Nov. 2021 – present **ePESSTO+ (advanced Public ESO Spectroscopic Survey for Transient Objects)**, <https://www.pessto.org>
- Dec. 2020 – present **GRAWITA (GRAvitational Wave Inaf TeAm)**, <https://grawita.inaf.it>
- Oct. 2020 – present **ThunderKAT (The HUNt for Dynamic and Explosive Radio transients with meerKAT)**, <http://www.thunderkat.uct.ac.za>
- Oct. 2020 – present **ENGRAVE (Electromagnetic counterparts of gravitational wave sources at the Very Large Telescope)**, <http://www.engage-eso.org>
- Oct. 2020 – present **NUTS2 (Nordic-optical-telescope Un-biased Transient Survey 2)**, <https://nuts.sn.ie>

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## Outreach activities

- 7<sup>th</sup> – 8<sup>th</sup> February 2024 **Surveillant at Campionati di Fisica (gara interregionale)**, *Università degli Studi di Padova, Dipartimento di Fisica e Astronomia “Galileo Galilei”, Padova PD (Italy)*
- Surveillance and assistance to students
- 9<sup>th</sup> – 11<sup>th</sup> Jun. 2023 **Assistant in training and outreach activities during the astronomical festival “L’Universo in tutti i sensi”**, *INAF - Osservatorio Astronomico di Padova, Borgo di Castellaro Lagusello MN (Italy)*
- 18<sup>th</sup> May 2023 **Speaker at XXXVII Campionati di Fisica awards ceremony, I.I.S. “E. Majorana – E. Corner”**, *Mirano VE (Italy)*
- Invited talk: “Supernovae e Astrofisica Multimessaggero”

- 17<sup>th</sup> Feb. 2023 **Speaker during training activity**, *Scuola Secondaria di Primo Grado di Castello Tesino TN (Italy)*
- Invited talk: “L’esperienza di una ricercatrice”
- 17<sup>th</sup> Nov. 2022 **Speaker at “Sguardi sul cielo del Lazio”**, *Associazione Shot Astronomico per il Bando Vitamina G., online*
- Collaboration in talk: “Gli occhi della terra per osservare l’universo”
- 24<sup>th</sup> Jun. 2022 **Speaker at UKRI STFC Charity Challenge**, *European Southern Observatory, Garching bei München (Germany)*
- Collaboration in talk: “The European Southern Observatory”
- 10<sup>th</sup> – 11<sup>th</sup> Jun. 2022 **Assistant in training and outreach activities during the astronomical festival “L’Universo attraente”**, *INAF - Osservatorio Astronomico di Padova, Borgo di Castellaro Lagusello MN (Italy)*
- Dec. 2021 – Jan. 2022 **Assistant in outreach activities during “Stelle di Natale”**, *INAF - Osservatorio Astrofisico di Asiago, Asiago VI (Italy)*
- Outreach activities: lecture teaching and support during telescope public observations
- Jan. 2021 – Nov. 2021 **Invited lecturer**, *Stazione Astronomica di Sozzago, Osservatorio Astronomico M13, Tradate VA (Italy)*
- November 2021: Lecture on stellar evolution, supernovae and multi-messenger astrophysics for the project “A SPASSO TRA LE STELLE II (approfondimenti serali di scienza astronomica)”.
  - January 2021: Lecture on stellar evolution, supernovae and multi-messenger astrophysics for the project “A SPASSO TRA LE STELLE (approfondimenti serali di scienza astronomica)”.

2020 – 2023 **Tutor for secondary school students during ASYAGO (Asiago School for Young Astronomers), INAF - Osservatorio Astrofisico di Asiago, Asiago VI (Italy)**

- Jul. 2023 (Summer edition): Lectures “Riduzione dati spettroscopici” and “I colori delle stelle”
- Mar. 2022 (Easter online edition): Lecture “Nase - Cresce - Esplode: Supernovae e Astrofisica Multimessaggero”
- Oct. 2021 (London online edition): Lecture “Stellar evolution and Gravitational Waves”
- Jun. – Jul. 2021 (Summer online edition): Lectures “Evoluzione stellare, Supernovae e Astrofisica Multimessaggero” and “Calcolo della massa di nichel”
- Mar. – Apr. 2021 (Easter online edition): Lectures “Evoluzione stellare, Supernovae e Astrofisica Multimessaggero” and “Calcolo della massa di nichel”
- Dec. 2020 – Jan. 2021 (Winter online edition): Lecture “Supernovae e Astrofisica Multimessaggero”
- Aug. 2020 (Summer online edition): Lectures “Le onde gravitazionale e le stelle nove” and “Nuclei galattici attivi”

Dec. 2019 – Jan. 2020 **Assistant in outreach activities, INAF - Osservatorio Astrofisico di Asiago, Asiago VI (Italy)**

- Outreach activities: lecture teaching and support during telescope public observations.

Nov. – Dec. 2019 **Secondary school teacher assistant within the outreach project “Il Cielo come laboratorio” organized by Dipartimento di Fisica e Astronomia, Università di Padova, I.I.S. “E. Majorana – E. Corner”, Mirano VE (Italy)**

- 14/11/2019 – 14:00-16:00 – “La natura duale della luce e l’atomo di idrogeno”
- 26/11/2019 – 14:00-16:00 – “I diagrammi H-R e l’evoluzione delle stelle”
- 13/12/2019 – 14:00-16:00 – “Esercitazione e ripasso in preparazione del test selettivo”



Sep. 2019 – Sep. 2023 **Speaker during European Researchers' night**, *INAF - Osservatorio Astronomico di Padova, Padova PD (Italy)*

- 30<sup>th</sup> September 2023 (Science4All): Engaging experience “Cartoline stellari”
- 29<sup>th</sup> September 2023: Engaging experiences “SolarSafari: Avventure fra i pianeti” and “Vita da astronomo”
- 30<sup>th</sup> September 2022: Talk “Con gli occhi di un astronomo”
- 24<sup>th</sup> September 2021: Talk “Nasce – Cresce – Esplode: Supernovae e Astrofisica Multimessaggero”
- 27<sup>th</sup> November 2020: Talk “Supernovae e Astrofisica Multimessaggero”
- 27<sup>th</sup> September 2019: Assistance to the public

## Honours and awards

- 2019 “Mille e una lode” merit award - Università degli Studi di Padova
- 2015 “Rotary per i giovani” study contribute award - Rotary Club Noale

## Language skills

Italian Mother tongue

	Listening	Reading	Spoken interaction	Spoken production	Writing
English	C2	C2	C1	C1	C1
<i>Certificate: Cambridge English, First (FCE) B2</i>					
French	B2	B2	B1	B1	B1
<i>Certificate: Diplôme d'études en langue française (DELF) B1</i>					
Spanish	B1	B1	A2	A2	A2
German	A2	A2	A2	A2	A2

## IT knowledge

	Information Processing	Communication	Content creation	Safety	Problem solving
Digital competences	Proficient user	Proficient user	Independent user	Independent user	Proficient user
Office	Competent with most Microsoft Office programmes				
Google	Competent with most Google programmes				
Collaboration	Experience with Slack, Zoom, Skype, Trello				
Coding	Experience with Python, C++, SuperMongo				

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## Personal skills

- Communication skills
- **Team work:** I have worked in various types of teams from research teams to choirs. I occasionally conducted the choir of my parish during weddings and religious celebrations.
  - **Clarity:** during my experience in the field of outreach, I learned how to break down complex concepts to target general audiences avoiding oversimplification. I also tutored children aged 9 – 17 in several subjects (Maths, Physics, Astronomy, English, Italian, History), which taught me how to make learning a pleasant experience.
  - **Public speech:** I am used to communicate my research in public speeches to diverse audiences, from the general public to scientific committees, in multiple languages.
  - **Interpersonal skills:** I work well in a group. I can exchange ideas and interact with different personalities. I have advanced relational skills and empathy, which allow me to relate to people in a positive way.
  - **Writing skills:** I can write efficiently in several languages. I know how to use different styles to better convey a concept.
- Organisational / managerial skills
- **Autonomy:** I am a well-organised person and I am able to operate in total autonomy if the need arise.
  - **Problem solving:** I am used to finding innovative solutions to all kinds of problems that arise while doing research.

Driving licence B

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## Publications

### Refereed

A full list of refereed publications can be found here.

○ 2024:

1. Lin, J., Wu, C., Xiong, H., Wang, X., Németh, P., Han, Z., Li, J., Elias-Rosa, N., **Salmaso, I.**, Filippenko, A., and Brink, T., Yang, Y., Chen, X., Yan, S., Zhang, J., Guo, S., Cai, Y., Mo, J., Xi, G., Liu, J., Guo, J., Xia, Q., Xiang, D., Li, G., Li, Z., Zheng, W., Zhang, J., Liu, Q., Guo, F., Chen, L. and Li, W. (2024)  
*A seven-Earth-radius helium-burning star inside a 20.5-min detached binary.* NatAs, 35L.
2. Fiore, A., Benetti, S., Tartaglia, L., Jerkstrand, A., **Salmaso, I.**, Tomasella, L., Morales-Garoffolo, A., Geier, S., Elias-Rosa, N., Cappellaro, E., Wang, X., Mo, J., Chen, Z., Yan, S., Pastorello, A., Mazzali, P. A., Ciolfi, R., Cai, Y., Fraser, M., Gutiérrez, C. P., Karamahmetoglu, E., Kuncarayakti, H., Moran, S., Ochner, P., Reguitti, A., Reynolds, T. M., and Valerin, G. (2024).  
*Detailed spectrophotometric analysis of the superluminous and fast evolving SN 2019neq.* MNRAS, 527(3):6473–6494.
3. Pearson, J., Sand, D. J., Lundqvist, P., Galbany, L., Andrews, J. E., Bostroem, K. A., Dong, Y., Hoang, E., Hosseinzadeh, G., Janzen, D., Jencson, J. E., Lundquist, M. J., Mehta, D., Meza Retamal, N., Shrestha, M., Valenti, S., Wyatt, S., Anderson, J. P., Ashall, C., Auchettl,

K., Baron, E., Blondin, S., Burns, C. R., Cai, Y., Chen, T.-W., Chomiuk, L., Coulter, D. A., Cross, D., Davis, K. W., de Jaeger, T., DerKacy, J. M., Desai, D. D., Dimitriadis, G., Do, A., Farah, J. R., Foley, R. J., Gromadzki, M., Gutiérrez, C. P., Haislip, J., González Hernández, J. I., Hinkle, J. T., Hoogendam, W. B., Howell, D. A., Hoeflich, P., Hsiao, E., Huber, M. E., Jha, S. W., Jiménez Palau, C., Kilpatrick, C. D., Kouprianov, V., Kumar, S., Kwok, L. A., Larison, C., LeBaron, N., Le Saux, X., Lu, J., McCully, C., Mera Evans, T., Milne, P., Modjaz, M., Morrell, N., Müller-Bravo, T. E., Newsome, M., Nicholl, M., Padilla Gonzalez, E., Payne, A. V., Pellegrino, C., Phan, K., Pineda-García, J., Piro, A. L., Piscarreta, L., Polin, A., Reichart, D. E., Rojas-Bravo, C., Ryder, S. D., **Salmaso, I.**, Schwab, M., Shahbandeh, M., Shappee, B. J., Siebert, M. R., Smith, N., Strader, J., Taggart, K., Terreran, G., Tinyanont, S., Tucker, M. A., Valerin, G., and Young, D. R. (2024).

*Strong Carbon Features and a Red Early Color in the Underluminous Type Ia SN 2022xkq.* ApJ, 960(1):29.

○ 2023:

1. Pastorello, A., Valerin, G., Fraser, M., Reguitti, A., Elias-Rosa, N., Filippenko, A. V., Rojas-Bravo, C., Tartaglia, L., Reynolds, T. M., Valenti, S., Andrews, J. E., Ashall, C., Bostroem, K. A., Brink, T. G., Burke, J., Cai, Y. Z., Cappellaro, E., Coulter, D. A., Dastidar, R., Davis, K. W., Dimitriadis, G., Fiore, A., Foley, R. J., Fugazza, D., Galbany, L., Gangopadhyay, A., Geier, S., Gutiérrez, C. P., Haislip, J., Hiramatsu, D., Holmbo, S., Howell, D. A., Hsiao, E. Y., Hung, T., Jha, S. W., Kankare, E., Karamehmetoglu, E., Kilpatrick, C. D., Kotak, R., Kouprianov, V., Kravtsov, T., Kumar, S., Li, Z. T., Lundquist, M. J., Lundqvist, P., Matilainen, K., Mazzali, P. A., McCully, C., Misra, K., Morales-Garoffolo, A., Moran, S., Morrell, N., Newsome, M., Padilla Gonzalez, E., Pan, Y. C., Pellegrino, C., Phillips, M. M., Pignata, G., Piro, A. L., Reichart, D. E., Rest, A., **Salmaso, I.**, Sand, D. J., Siebert, M. R., Smartt, S. J., Smith, K. W., Srivastav, S., Stritzinger, M. D., Taggart, K., Tinyanont, S., Yan, S. Y., Wang, L., Wang, X. F., Williams, S. C., Wyatt, S., Zhang, T. M., de Boer, T., Chambers, K., Gao, H., and Magnier, E. (2023). *Forbidden hugs in pandemic times. IV. Panchromatic evolution of three luminous red novae.* A&A, 671:A158.

2. **Salmaso, I.**, Cappellaro, E., Tartaglia, L., Benetti, S., Botticella, M. T., Elias-Rosa, N., Pastorello, A., Patat, F., Reguitti, A., Tomasella, L., Valerin, G., and Yang, S. (2023). *Hidden shock powering the peak of SN 2020faa.* A&A, 673:A127.

3. Kuncarayakti, H., Sollerman, J., Izzo, L., Maeda, K., Yang, S., Schulze, S., Angus, C. R., Aubert, M., Achettil, K., Della Valle, M., Dessart, L., Hinds, K., Kankare, E., Kawabata, M., Lundqvist, P., Nakaoka, T., Perley, D., Raimundo, S. I., Strotjohann, N. L., Taguchi, K., Cai, Y. Z., Charalampopoulos, P., Fang, Q., Fraser, M., Gutierrez, C. P., Imazawa, R., Kangas, T., Kawabata, K. S., Kotak, R., Kravtsov, T., Matilainen, K., Mattila, S., Moran, S., Murata, I., **Salmaso, I.**, Anderson, J. P., Ashall, C., Bellm, E. C., Benetti, S., Chambers, K. C., Chen, T. W., Coughlin, M., De Colle, F., Fremling, C., Galbany, L., Gal-Yam, A., Gromadzki, M., Groom, S. L., Hajela, A., Inserra, C., Kasliwal, M. M., Mahabal, A. A., Martin-Carrillo, A., Moore, T., Muller-Bravo, T. E., Nicholl, M., Ragosta, F., Riddle, R. L., Sharma, Y., Srivastav, S., Stritzinger, M. D., Wold, A., and Young, D. R. (2023). *The Bactrian? Broad-lined Type-Ic supernova SN 2022xxf with extraordinary two-humped light curves.* A&A, 687:A209.

○ 2022:

1. Cai, Y. Z., Pastorello, A., Fraser, M., Wang, X. F., Filippenko, A. V., Reguitti, A., Patra, K. C., Goranskij, V. P., Barsukova, E. A., Brink, T. G., Elias-Rosa, N., Stevance, H. F., Zheng,

W., Yang, Y., Atapin, K. E., Benetti, S., de Boer, T. J. L., Bose, S., Burke, J., Byrne, R., Cappellaro, E., Chambers, K. C., Chen, W. L., Emami, N., Gao, H., Hiramatsu, D., Howell, D. A., Huber, M. E., Kankare, E., Kelly, P. L., Kotak, R., Kravtsov, T., Lander, V. Y., Li, Z. T., Lin, C. C., Lundqvist, P., Magnier, E. A., Malygin, E. A., Maslennikova, N. A., Matilainen, K., Mazzali, P. A., McCully, C., Mo, J., Moran, S., Newsome, M., Oparin, D. V., Padilla Gonzalez, E., Reynolds, T. M., Shatsky, N. I., Smartt, S. J., Smith, K. W., Stritzinger, M. D., Tatarnikov, A. M., Terreran, G., Uklein, R. I., Valerin, G., Vallely, P. J., Vozyakova, O. V., Wainscoat, R., Yan, S. Y., Zhang, J. J., Zhang, T. M., Zheltoukhov, S. G., Dastidar, R., Fulton, M., Galbany, L., Gangopadhyay, A., Ge, H. W., Gutierrez, C. P., Lin, H., Misra, K., Ou, Z. W., **Salmaso, I.**, Tartaglia, L., Xiao, L., and Zhang, X. H. (2022).

*Forbidden hugs in pandemic times. III. Observations of the luminous red nova AT 2021biy in the nearby galaxy NGC 4631.* A&A, 667:A4.

2. Valerin, G., Pumo, M. L., Pastorello, A., Reguitti, A., Elias-Rosa, N., Gutiérrez, C. P., Kankare, E., Fraser, M., Mazzali, P. A., Howell, D. A., Kotak, R., Galbany, L., Williams, S. C., Cai, Y. Z., **Salmaso, I.**, Pinter, V., Müller-Bravo, T. E., Burke, J., Padilla Gonzalez, E., Hiramatsu, D., McCully, C., Newsome, M., and Pellegrino, C. (2022).

*Low luminosity Type II supernovae - IV. SN 2020cxd and SN 2021aai, at the edges of the sub-luminous supernovae class.* MNRAS, 513(4):4983–4999.

3. Reguitti, A., Pastorello, A., Pignata, G., Fraser, M., Stritzinger, M. D., Brennan, S. J., Cai, Y. Z., Elias-Rosa, N., Fugazza, D., Gutierrez, C. P., Kankare, E., Kotak, R., Lundqvist, P., Mazzali, P. A., Moran, S., **Salmaso, I.**, Tomasella, L., Valerin, G., and Kuncarayakti, H. (2022).

*SN 2021foa, a transitional event between a Type II<sub>n</sub> (SN 2009ip-like) and a Type I<sub>bc</sub> supernova.* A&A, 662:L10.

○ 2020:

1. Perennes, C., Doro, M., Corti, D., Lessio, L., Mallamaci, M., Mariotti, M., Rando, R., and **Salmaso, I.** (2020).

*Optical feasibility of an upgrade of the CTA LST camera to SiPM.* Nuclear Instruments and Methods in Physics Research A, 984:164485.

### Non-refereed

A full list of non-refereed publications can be found here.

○ 2024:

1. M. Shahbandeh, C. Ashall, P. Hoeflich, E. Baron, O. Fox, T. Mera, J. DerKacy, M. D. Stritzinger, B. Shappee, D. Law, J. Morrison, T. Pauly, J. Pierel, K. Medler, J. Andrews, D. Baade, A. Bostroem, P. Brown, C. Burns, A. Burrow, A. Cikota, D. Cross, S. Davis, T. de Jaeger, A. Do, Y. Dong, E. Hsiao, I. Dominguez, L. Galbany, D. Janzen, J. Jencson, E. Hoang, E. Karamehmetoglu, B. Khaghani, K. Krisciunas, S. Kumar, J. Lu, P. Mazzali, N. Morrell, F. Patat, J. Pearson, C. Pfeffer, L. Wang, Y. Yang, Y. Z. Cai, Y. Camacho-Neves, N. Elias-Rosa, M. Lundquist, J. Maund, M. Phillips, A. Rest, N. Retamal, S. Stangl, M. Shrestha, C. Stevens, N. Suntzeff, C. Telesco, M. Tucker, R. Foley, S. Jha, L. Kwok, C. Larison, N. LeBaron, S. Moran, J. Rho, **I. Salmaso**, J. Schmidt, and S. Tinyanont (2024).

*JWST NIRSpec+MIRI Observations of the nearby Type IIP supernova 2022acko.* arXiv:2401.14474 (2024).

2. S. C. Williams, R. Kotak, P. Lundqvist, S. Mattila, P. A. Mazzali, A. Pastorello, A. Reguitti, M. D. Stritzinger, A. Fiore, I. M. Hook, S. Moran, and **I. Salmaso** (2024).

*Observations of type Ia supernova SN 2020nlb up to 600 days after explosion, and the distance to M85.* arXiv:2401.08759 (2024).

3. **I. Salmaso**, G. Valerin, and F. Guidolin (2024).  
*Asiago spectroscopic classification of AT 2023sil*. Transient Name Server AstroNote 34
- 2023:
    1. Lin, J., Wu, C., Xiong, H., Wang, X., Nemeth, P., Han, Z., Li, J., Elias-Rosa, N., **Salmaso, I.**, Filippenko, A. V., Brink, T. G., Yang, Y., Chen, X., Yan, S., Zhang, J., Guo, S., Cai, Y., Mo, J., Xi, G., Liu, J., Guo, J., Xia, Q., Xiang, D., Li, G., Li, Z., Zheng, W., Zhang, J., Liu, Q., Guo, F., Chen, L., and Li, W. (2023).  
*A seven-Earth-radius helium-burning star inside a 20.5-min detached binary*. arXiv e-prints, page arXiv:2312.13612.
    2. Taubenberger, S., Vogl, C., Huber, S., Schuldt, S., Grupa, J., Schweinfurth, A., Tomasella, L., Benetti, S., Cappellaro, E., Pastorello, A., **Salmaso, I.**, and Reguitti, A. (2023).  
*Asiago spectroscopic classification of optical transient*. Transient Name Server AstroNote, 308:1.
    3. Schuldt, S., Schweinfurth, A., Taubenberger, S., Vogl, C., Tomasella, L., Benetti, S., Cappellaro, E., Pastorello, A., **Salmaso, I.**, and Reguitti, A. (2023).  
*Asiago spectroscopic classification of six optical transients*. Transient Name Server AstroNote, 315:1.
    4. Schweinfurth, A., Huber, S., Schuldt, S., Grupa, J., Taubenberger, S., Vogl, C., Tomasella, L., Benetti, S., Cappellaro, E., Pastorello, A., **Salmaso, I.**, and Reguitti, A. (2023).  
*Asiago spectroscopic classification of six optical transients*. Transient Name Server AstroNote, 310:1.
    5. Pastorello, A., Reguitti, A., Fiscale, S., Mazzotta-Epifani, E., Elias-Rosa, N., Tartaglia, L., Benetti, S., Valerin, G., **Salmaso, I.**, Tomasella, L., Cappellaro, E., Ochner, P., Farina, A., and Guidolin, F. (2023).  
*Padova-Asiago Transient Classification Report for 2023-10-13*. Transient Name Server Classification Report, 2023-2582:1.
    6. **Salmaso, I.**, Valerin, G., and Reguitti, A. (2023).  
*Padova-Asiago Transient Classification Report for 2023-10-18*. Transient Name Server Classification Report, 2023-2643:1.
    7. **Salmaso, I.**, Cappellaro, E., Benetti, S., Pastorello, A., Reguitti, A., Nagao, T., and Stritzinger, M. (2023).  
*Spectroscopic observation of SN 2023awp*. Transient Name Server AstroNote, 28:1.
  - 2022:
    1. Reguitti, A., Benetti, S., Pastorello, A., Tomasella, L., **Salmaso, I.**, and Cappellaro, E. (2022).  
*Asiago spectroscopic classification of optical transients*. Transient Name Server AstroNote, 226:1.
    2. **Salmaso, I.**, Stritzinger, M., and Fraser, M. (2022).  
*NUTS Transient Classification Report for 2022-11-26*. Transient Name Server Classification Report, 2022-3456:1.
    3. Ochner, P., Romanov, F., Pastorello, A., Valerin, G., **Salmaso, I.**, Bruni, I., and Naponiello, L. (2022).  
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5. **Salmaso, I.**, Cappellaro, E., Benetti, S., Pastorello, A., Tartaglia, L., and Reguitti, A. (2022). *Spectroscopic observation of SN 2022myl*. Transient Name Server AstroNote, 144:1.
- 2021:
    1. Reguitti, A., Ochner, P., **Salmaso, I.**, Farina, A., Andreoli, V., and Albanese, I. (2021). *Asiago spectroscopic classification of an optical transient*. Transient Name Server AstroNote, 171:1–171.
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    3. Reguitti, A., Ochner, P., **Salmaso, I.**, Farina, A., Andreoli, V., and Vagnozzi, A. (2021). *Padova-Asiago Transient Classification Report for 2021-12-31*. Transient Name Server Classification Report, 2021-4242:1–4242.
    4. **Salmaso, I.**, Cappellaro, E., Elias-Rosa, N., Fiore, A., Reguitti, A., and Tartaglia, L. (2021). *The Type II<sub>n</sub> 2021gpw in the errorbox of IceCube-20211216B*. The Astronomer's Telegram, 15123:1.
  - 2020:
    1. Tomasella, L., **Salmaso, I.**, Benetti, S., Pastorello, A., Cappellaro, E., Turatto, M., and Elias-Rosa, N. (2020). *Asiago spectroscopic observations of three transients*. The Astronomer's Telegram, 13386:1
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  - 2019:
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    2. Berton, M., Tomasella, L., **Salmaso, I.**, Benetti, S., Cappellaro, E., and Turatto, M. (2019). *Asiago spectroscopic classification of optical transients*. Transient Name Server AstroNote, 53:1.
    3. Tomasella, L., Benetti, S., Cappellaro, E., Turatto, M., and **Salmaso, I.** (2019). *Asiago spectroscopic classification of optical transients*. Transient Name Server AstroNote, 50:1.
    4. **Salmaso, I.**, Ochner, P., Pastorello, A., Benetti, S., Campaner, P., and Briganti, F. (2019). *Asiago spectroscopic classification of SN 2019zhs*. The Astronomer's Telegram, 13378:1.
    5. Benetti, S., Tomasella, L., **Salmaso, I.**, Cappellaro, E., Turatto, M., Bianco, A., Zanutta, A., Landoni, M., Lorenzi, V., Di Fabrizio, L., Magazzu, A., and Poretti, E. (2019). *Classification of three type Ia SNe using the multispectral VPHG GRIS-U for DOLORES@TNG*. The Astronomer's Telegram, 12984:1.
    6. **Salmaso, I.**, Tomasella, L., Benetti, S., D'Avanzo, P., Cappellaro, E., Botticella, M. T., Martone, R., Rossi, A., Brocato, E., and Grawita Collaboration (2019). *LIGO/Virgo S190901ap : GRAWITA photometric observation of candidate ZTFabvizsw and GCN 25618 revision*. GRB Coordinates Network, 25650:1.
    7. Nascimbeni, V., **Salmaso, I.**, Tomasella, L., Benetti, S., D'Avanzo, P., Cappellaro, E., Brocato, E., and Grawita Collaboration (2019). *LIGO/Virgo S190901ap : GRAWITA spectroscopic observation of candidate MASTER OT J171434.95+280725.6*. GRB Coordinates Network, 25661:1.

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9. **Salmaso, I.**, Tomasella, L., Benetti, S., D'Avanzo, P., Cappellaro, E., Botticella, M. T., Martone, R., Rossi, A., Brocato, E., and Grawita Collaboration (2019). *LIGO/Virgo S190901ap : GRAWITA spectroscopic observation of candidate ZTFabvizsw*. GRB Coordinates Network, 25618:1.
10. Tomasella, L., Benetti, S., Cappellaro, E., Turatto, M., and **Salmaso, I.** (2019). *Padova-Asiago Transient Classification Report for 2019-07-24*. Transient Name Server Classification Report, 2019-1315:1.
11. Tomasella, L., Berton, M., Benetti, S., Cappellaro, E., Turatto, M., and **Salmaso, I.** (2019). *Padova-Asiago Transient Classification Report for 2019-07-26*. Transient Name Server Classification Report, 2019-1333:1.