

Enrico Congiu

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Las Condes, Santiago, Chile.
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Nationality: Italian

Areas of Specialization

Astrophysics • Star-forming galaxies, H II regions, Interstellar Medium, Active Galactic Nuclei.

Career

2020 – present	POSTDOCTORAL FELLOW, Departamento de Astronomia - Universidad de Chile
2019 – 2020	TELESCOPE OPERATOR, Las Campanas Observatory – Carnegie Institution for Science
2018 – 2019	STUDENT FELLOW, Las Campanas Observatory – Carnegie Institution for Science
2019	ASSOCIATE Istituto Nazionale di Astrofisica (INAF) – Osservatorio Astronomico di Brera
2017	VISITING PHD STUDENT, University of California, Santa Barbara (June 2017 - August 2017)
2016 – 2018	ASSOCIATE PHD STUDENT, Istituto Nazionale di Astrofisica (INAF) – Osservatorio Astronomico di Brera

Publications

Author of 25 refereed publications (of which 4 as first author and 2 in press) and 9 non refereed publications. 335 total citations and h-index 10, according to the NASA ADS system. See the end of the CV for the full list.

Education and Background

EDUCATION

2019	PH. D. in Astronomy, Università di Padova. <ul style="list-style-type: none">• Title: “The physics of the extended narrow-line region in active galactic nuclei.”• Thesis defense: March 5th, 2019.
2015	MSc in Astronomy, Università di Padova
2013	BSc in Astronomy, Università di Padova

LANGUAGE SKILLS

NATIVE LANGUAGE:	Italian
OTHER LANGUAGES:	English, Spanish

PROGRAMMING SKILLS

OS:	Linux, MacOS, Windows
PROGRAMMING LANGUAGES:	Python, IDL (basic), MATLAB (basic)
DATA REDUCTION:	IRAF, CASA, AIPS (basic)

Teaching Experience

- 2021 Advisor for the “Trabajo Tutorial Basico” at Universidad de Chile (Mr. M. G. Moreno)
- 2018 Co-advisor of a bachelor thesis (Mr. A. Zamboni)
- 2017-2018 Tutor activity for “Il Cielo come Laboratorio”, Università di Padova
- 2016-2017 Tutor activity for BSc degree in Astronomy (50 hours) , Università di Padova
- 2014-2015 Tutor activity for BSc degree in Scienze e Tecnologie per l’Ambiente (90 hours) , Università di Padova

Service Activity

- 2021 – present Reviewer for proposals submitted to the “Agencia Estatal de Investigación” (AEI)
- 2021 – present Review editor for the journal “Frontiers in Astronomy and Space Science”, section Extragalactic Astronomy
- 2019 – present Reviewer for the journal “Frontiers in Astronomy and Space Science”
- 2018 LOC member of the conference “Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe” Padova, Italy, April 10th-13th
- 2017 LOC member of the conference “Congresso Società Astronomica Italiana (SAIt)” Padova, Italy, September 12th-15th
- 2017 LOC member of the conference “Quasars at all Cosmic Epochs” Padova, Italy, April 2nd-7th

OBSERVING EXPERIENCE

- 2021 1 nights as designated visitor at the La Campanas observatory (P.I. Vito).
Instrument used: IMACS
- 2021 3 nights as designated visitor at the La Silla observatory (P.I. Berton).
Instrument used: EFOSC2
- 2019-2020 56 nights as a Telescope Operator at the Las Campanas Observatory. Early stop due to COVID-19 pandemic.
- 2018-2020 47 nights at the Las Campanas Observatory divided between the du Pont telescope and the Magellan telescopes. Part of the Magellan telescopes nights were carried out during the monthly engineering runs.
Instruments used: DirectCCD and WFCCD at DuPont, LDSS3, MIKE, MagE, FourStar and IMACS at the Magellan telescopes.
- 2018 10 nights at the La Silla Observatory as an observer for the ePESSTO collaboration.
Instruments used: EFOSC2 and SOFI at NTT.
- 2018 Remote observer training with the Green Bank radio telescope.
- 2014-2018 60 nights at the Asiago Astrophysical Observatory.
Instruments used: AFOSC at the 1.82m Copernico telescope, the Boller&Chivens Spectrograph at the 1.22m Galileo telescope, the Direct Camera at the 67/92 Schmidt telescope.

Schools and Conferences

CONFERENCES

- 2018 “Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe” Padova, Italy, April 10th-13th
Presented contribution: Talk
- 2017 “Quasars at all Cosmic Epochs” Padova, Italy, April 2nd-7th
Presented contribution: Poster
- 2016 “International Heraeus Teacher Training Seminars: Astronomy from Four Perspectives IV. Origins

of stars and planets” Firenze, Italy, August 23th-30th

Presented contribution: Talk

- 2014 “International Heraeus Teacher Training Seminars: Astronomy from Four Perspectives II. Space, Time and Gravitation, The case of Active Galactic Nuclei.” Padova, Italy, September 1st-6th
Presented contribution: Talk

SEMINARS

- 2020 “Classification of ionized nebula in the PHANGS-MUSE sample”, Universidad de Chile, Santiago, Chile, March 21st, 2021;
2020 “The strange case of Mrk 783.”, Aalto University Metsähovi Radio Observatory (online), Finland, November 21st, 2020
2020 “Pc-scale radio jet in the NLS1 Mrk 783”, AGN Club meeting (online), Chile, May 15th, 2020
2019 “The Extended Narrow-line Region in Nearby AGN”, Universidad de Chile, Santiago, Chile, March 21st, 2019;
2019 “Physics at high angular resolution with PHANGS”, Università di Padova, Padova, Italy, February 28th, 2019.

PHD SCHOOLS

- 2018 “GBT Remote Observer Training Workshop”, 24 – 25 May 2018, Green Bank, USA
2018 “Green Bank Observatory Single Dish Training School”, 19 – 23 May 2018, Green Bank, USA
2017 “ERIS2017 European Radio Interferometry School”, 16 – 20 October 2017, Dwingeloo, The Netherlands
2016 “Cargese School 2016 on Astrophysical Jets” May 23nd - June 1st, Cargese, France
Presented contribution: Poster
2016 “ESO/OPTICON School on the Use and Data Reduction of X-Schooter and KMOS” May 9th - 13th, Garching, Germany

Research collaborations

- 2018 – present Physics at High Angular resolution in Nearby Galaxies (PHANGS)
2017 NOT Unbiased Transient Survey (NUTS) collaboration
2017 – 2020 extended-Public ESO Spectroscopic Survey for Transient Objects (ePESSTO) collaboration - SNe II_n/I_{bc} and ILOTs group
2017 – 2020 Cherekov Telescope Array (CTA) collaboration

Grants

- 2019 3x5 Awards, Carnegie Institution for Science, USD 5000,
P.Is.: G. Blanc, F. Di Mille, E. Congiu.

Accepted proposals

PRINCIPAL INVESTIGATOR

- 2018 Instrument/Telescope: DOLORES@TNG
Title: “Is Mrk 783 an interacting galaxy?”
- 2018 Instrument/Telescope: VLBA
Title: “Young jet and old radio emission: Mrk 783, a puzzling NLS1”
- 2017 Instrument/Telescope: e-MERLIN
Title: “High resolution imaging of the kiloparsec scale emission in Mrk 783”
- 2016 Instrument/Telescope: DOLORES@TNG
Title: “The very low state of the FSRQ 3C 345”

CO-INVESTIGATOR

- 2021 Instrument/Telescope: VLBA
P.I.: S. Chen
Title: “A rare radio-quiet narrow-line Seyfert 1 galaxy harboring a 180 kpc radio jet”
- 2020 Instrument/Telescope: KCWI@Keck
P.I.: P. Coppi
Title: “Constraining the Origin of the Alignment Effect in High-Z Radio Galaxies using X-rays and Optical Polarization”
- 2020 Instrument/Telescope: EFOSC2@NTT
P.I.: M. Berton
Title: “Linking line profiles and host galaxies in narrow-line Seyfert 1s with NTT”
- 2019 Instrument/Telescope: EFOSC2@NTT
P.I.: M. Berton
Title: “The largest survey of host galaxies of southern narrow-line Seyfert 1s with NTT”
- 2018 Instrument/Telescope: VLA
P.I.: S. Chen
Title: “Radio View of Narrow-Line Seyfert 1 Galaxies in the Southern Hemisphere”
- 2018 Instrument/Telescope: 1.82m Copernico and Schmidt telescopes of INAF/Asiago Observatory
P.I.: A. Pastorello
Title: “Studying intermediate-luminosity optical transients, supernovae interacting with circum-stellar material, and transients in the galaxy nuclei with the Asiago facilities”
- 2017 Instrument/Telescope: NIRC2@Keck
P.I.: P. Coppi
Title: “The elusive host galaxy of γ -ray emitting narrow-line Seyfert 1s”
- 2017 Instrument/Telescope: IRAM-NOEMA
P.I.: M. Berton
Title: “A glimpse of the early universe through radio-loud narrow-line Seyfert 1 galaxies”
- 2017 Instrument/Telescope: Swift
P.I.: M. Berton
Title: “The Spectral Energy Distribution of Jet-Launching narrow-line Seyfert 1 galaxies”
- 2017 Instrument/Telescope: VLBA
P.I.: A. Caccianiga
Title: “The true nature of SDSSJ143244.91+301435”
- 2016 Instrument/Telescope: 1.82m Copernico and Schmidt telescopes of INAF/Asiago Observatory
P.I.: S. Giroi
Title: “Monitoraggio di blazar e AGN γ -emittenti”

List of Publications

REFEREED ARTICLES

First author

- 2020 **E. Congiu**; P. Kharb; A. Tarchi; M. Berton; A. Caccianiga; S. Chen; L. Crepaldi; F. Di Mille; E. Järvelä; M. E. Jarvis; G. La Mura; A. Vietri, “The radio structure of the narrow-line Seyfert 1 Mrk 783 with VLBA and e-MERLIN”, 2020, MNRAS, 499: 3149.
- 2017 **E. Congiu**; M. Contini; S. Ciroi; V. Cracco; F. Di Mille; M. Berton; M. Frezzato; G. La Mura; P. Rafanelli, “Extended narrow-line region in Seyfert galaxies”, 2017, FrASS, 4: 27.
- 2017 **E. Congiu**; M. Contini; S. Ciroi; V. Cracco; M. Berton; F. Di Mille; M. Frezzato; G. La Mura; P. Rafanelli, “High-resolution spectroscopy of the extended narrow-line region of IC 5063 and NGC 7212”, 2017, MNRAS, 471: 562;
- 2017 **E. Congiu**; M. Berton; M. Giroletti; R. Antonucci; A. Caccianiga; P. Kharb; M. L. Lister; L. Foschini; S. Ciroi; V. Cracco; M. Frezzato; E. Järvelä; G. La Mura; J. L. Richards; P. Rafanelli, “Kiloparsec-scale emission in the narrow-line Seyfert 1 galaxy Mrk 783”, 2017, A&A, 603: A32.

Author

- 2021 I. Pessa; E. Schinnerer; F. Belfiore; E. Emsellem; A. K. Leroy; A. Schrub; J. M. D. Kruijssen; H. -A. Pan; G. A. Blanc; P. Sanchez-Blazquez; F. Bigiel; M. Chevance; **E. Congiu**; D. Dale; C. M. Faesi; S. C. O. Glover; K. Grasha; B. Groves; I. Ho; M. Jiménez-Donaire; R. Klessen; K. Kreckel; E. W. Koch; D. Liu; S. Meidt; J. Pety; M. Querejeta; E. Rosolowsky; T. Saito; F. Santoro; J. Sun; A. Usero; E. J. Watkins; T. G. Williams, “Star formation scaling relations at 100 pc from PHANGS: Impact of completeness and spatial scale”, A&A, accepted;
- 2021 F. Vito; W. N. Brandt; F. Ricci; **E. Congiu**; T. Connor; E. Bañados; F. E. Bauer; R. Gilli; B. Luo; C. Mazzucchelli; M. Mignoli; O. Shemmer; C. Vignali; F. Calura; A. Comastri; R. Decarli; S. Gallerani; R. Nanni; M. Brusa; N. Cappelluti; F. Civano; G. Zamorani, “Chandra and Magellan/FIRE follow-up observations of PSO167-13: an X-ray weak QSO at $z = 6.515$ ”, A&A, accepted;
- 2021 M. Tang; D. Stark; J. Chevallard; S. Charlot; R. Endsley; **E. Congiu**, “Lyman-alpha spectroscopy of extreme [OIII] emitting galaxies at $z \simeq 2-3$: Implications for Ly α visibility and LyC leakage at $z > 6$ ”, MNRAS, 503, 4105;
- 2020 R. Rampazzo; S. Ciroi; P. Mazzei; F. Di Mille; **E. Congiu**; A. Cattapan; L. Bianchi; E. Iodice; A. Marino; H. Plana; J. Postma; M. Spavone, “Dorado and its member galaxies. Ha imaging of the group backbone”, A&A, 643, 176;
- 2020 M. Tang; D. Stark; J. Chevallard; S. Charlot; R. Endsley; **E. Congiu**, “Rest-frame UV spectroscopy of extreme [OIII] emitters at $1.3 < z < 3.7$: Toward a high-redshift UV reference sample for JWST”, MNRAS, 501, 3238;
- 2020 E. Järvelä; M. Berton; S. Ciroi; **E. Congiu**; A. Lähteenmäki; F. Di Mille, “SDSS J211852.96-073227.5: The first non-local, interacting, late-type intermediate Seyfert galaxy with relativistic jets”, A&A, 636, 12;
- 2020 M. Berton; E. Järvelä; L. Crepaldi; A. Lähteenmäki; M. Tornikoski; **E. Congiu**; P. Kharb; G. Terreran; A. Vietri, “Absorbed relativistic jets in radio-quiet narrow-line Seyfert 1 galaxies”, A&A, 636: 64;
- 2020 W. Wei; E. A. Huerta; B. C. Whitmore; J. C. Lee; S. Hannon; R. Chandar; D. A. Dale; K. L. Larson; D. A. Thilker; L. Ubeda; M. Boquien; M. Chevance; J. M. D. Kruijssen; A. Schrub; G. A. Blanc; **E. Congiu**, “Deep transfer learning for star cluster classification: I. application to the PHANGS-HST survey”, MNRAS, 493, 3178;
- 2019 K. Kreckel; I. -T. Ho; G. A. Blanc; B. Groves; F. Santoro; E. Schinnerer; F. Bigiel; M. Chevance; **E. Congiu**; E. Emsellem; C. Faesi; S. C. O. Glover; K. Grasha; J. M. D. Kruijssen; P. Lang; A. K. Leroy; S. E. Meidt; R. McElroy; J. Pety; E. Rosolowsky; T. Saito; K. Sandstrom; P. Sanchez-Blazquez; A. Schrub, “Mapping Metallicity Variations across Nearby Galaxy Disks”, ApJ, 887, 80;
- 2019 A. Pastorello; E. Mason; S. Taubenberger; M. Fraser; G. Cortini; L. Tomasella; M. T. Botticella; N.

- Elias-Rosa; R. Kotak; S. J. Smartt; S. Benetti; E. Cappellaro; M. Turatto; L. Tartaglia; S. G. Djorgovski; A. J. Drake; M. Berton; F. Briganti; J. Brimacombe; F. Bufano; Y. -Z Cai; S. Chen; E. J. Christensen; F. Ciabattari; **E. Congiu**; A. Dimai; C. Inserra; E. Kankare; L. Magill; K. Maguire; F. Martinelli; A. Morales-Garoffolo; P. Ochner; G. Pignata; A. Reguitti; J. Sollerman; S. Spiro; G. Terreran; D. E. Wright, “Luminous red novae: Stellar mergers or giant eruptions?”, *A&A*, 63, A75;
- 2019 CTA collaboration, “Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout”, 2019, *Astroparticle Physics*, 11,35;
- 2019 A. Pastorello; A. Reguitti; A. Morales-Garoffolo; Z. Cano; S. J. Prentice; D. Hiramatsu; J. Burke; E. Kankare; R. Kotak; T. Reynolds; S. J. Smartt; S. Bose; P. Chen; **E. Congiu** et al., “A luminous stellar outburst during a long-lasting eruptive phase first, and then SN II in 2018cnf”, 2019, *A&A*, 628, A93;
- 2019 M. Berton; **E. Congiu**; S. Ciroi; S. Komossa; M. Frezzato; F. Di Mille; S. Antòn.; R. Antonucci; A. Caccianiga; P. Coppi; E. Järvelä; J. Kotilainen; A. Lähteenmäki; S. Mathur; S. Chen; V. Cracco; G. La Mura; P. Rafanelli, “The interacting late-type host galaxy of the radio-loud narrow-line Seyfert 1 IRAS 20181-2244”, 2019, *The Astronomical Journal*, 157, 48;
- 2018 S. Chen; M. Berton; G. La Mura; **E. Congiu**; V. Cracco; L. Foschini; J. H. Fan; S. Ciroi; P. Rafanelli; D. Bastieri, “Probing narrow-line Seyfert 1 galaxies in the southern hemisphere”, 2018, *Astronomy & Astrophysics*, 615, 167;
- 2018 M. Berton; N. H. Liao; G. La Mura; E. Järvelä; **E. Congiu**; L. Foschini; M. Frezzato; V. Ramakrishnan; X. L. Fan; A. Lähteenmäki; T. Pursimo; V. Abate; J. M. Bai; P. Calciolone; S. Ciroi; L. Chen; V. Cracco; S. K. Li; M. Tornikoski; P. Rafanelli, “The flat-spectrum radio quasar 3C 345 from the high to the low emission state”, 2018, *Astronomy & Astrophysics*, 614, 148;
- 2018 M. Berton; **E. Congiu**; E. Järvelä; R. Antonucci; P. Kharb; M. L. Lister; A. Tarchi; A. Caccianiga; S. Chen; L. Foschini; A. Lähteenmäki; J. L. Richards; S. Ciroi; V. Cracco; M. Frezzato; G. La Mura; P. Rafanelli, “Radio-emitting narrow-line Seyfert 1 galaxies in the JVLA perspective”, 2018, *Astronomy & Astrophysics*, 614, 87;
- 2017 G. La Mura, M. Berton, S. Chen, A. Chougule, S. Ciroi, **E. Congiu**, V. Cracco, M. Frezzato, S. Morini, P. Rafanelli, “Models of Emission-Line Profiles and Spectral Energy Distributions to Characterize the Multi-Frequency Properties of Active Galactic Nuclei”, *Atoms*, 5, 43;
- 2017 G. La Mura, M. Berton, S. Chen, S. Ciroi, **E. Congiu**, V. Cracco, M. Frezzato, P. Rafanelli, “Multi-Frequency Databases for AGN Investigation – Results and Perspectives”, 2017, *Frontiers in Astronomy and Space Sciences* 4, 25L;
- 2017 M. Berton, L. Foschini, A. Caccianiga, S. Ciroi, **E. Congiu**, V. Cracco, M. Frezzato, G. La Mura, P. Rafanelli, “An Orientation-Based Unification of Young Jetted AGN: The Case of 3C 286”, 2017, *Frontiers in Astronomy and Space Sciences* 4, 8;
- 2017 G. La Mura, G. Busetto, S. Ciroi, P. Rafanelli, M. Berton, **E. Congiu**, V. Cracco, M. Frezzato, “Relativistic plasmas in AGN jets. From synchrotron radiation to γ -ray emission”, 2017, *The European Physical Journal D* 71, 95;
- 2016 M. Berton, A. Caccianiga, L. Foschini, B. M. Peterson, S. Mathur, G. Terreran, S. Ciroi, **E. Congiu**, V. Cracco, M. Frezzato, G. La Mura, P. Rafanelli, “Compact steep-spectrum sources as the parent population of flat-spectrum radio-loud narrow-line Seyfert 1 galaxies”, 2016, *Astronomy & Astrophysics* 591, A98.

NON REFEREED PUBLICATIONS

Proceedings

- 2018 A. Vietri, M. Berton, S. Ciroi, **E. Congiu**, G. La Mura, V. Cracco, M. Frezzato, S. Chen, T. Peruzzi, P. Rafanelli, “The link between X-ray complexity and optical lines in NLS1s”, 2018, *Proceedings of Science, proceedings of the conference “Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe”*
- 2018 S. Chen, M. Berton, G. La Mura, **E. Congiu**, V. Cracco, L. Foschini, J.-H. Fan, S. Ciroi, P. Rafanelli, D. Bastieri, “A catalog of narrow-line Seyfert 1 galaxies in the southern hemisphere”, 2018, *Proceedings of Science, proceedings of the conference “Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe”*

- 2018 G. La Mura, D. Bastieri, M. Berton, S. Chen, S. Ciroi, **E. Congiu**, V. Cracco, J.-H. Fan, P. Rafanelli, “Models of Optical Emission Lines To Investigate Narrow-Line Seyfert 1 Galaxies in Spectroscopic Databases”, 2018, *Proceedings of Science, proceedings of the conference "Revisiting narrow-line Seyfert 1 galaxies and their place in the Universe"*
- 2017 G. La Mura, M. Berton, S. Chen, A. Chougule, S. Ciroi, **E. Congiu**, V. Cracco, M. Frezzato, S. Mordini, P. Rafanelli, “Models of Emission-Line Profiles and Spectral Energy Distributions to Characterize the Multi-Frequency Properties of Active Galactic Nuclei”, 2017, *Proceedings of the XI Serbian Conference on Spectral Line Shapes in Astrophysics*
- 2016 M. Berton, L. Foschini, S. Ciroi, A. Caccianiga, B. M. Peterson, S. Mathur, M. L. Lister, J. L. Richards, **E. Congiu**, V. Cracco, F. Di Mille, M. Frezzato, G. La Mura, P. Rafanelli, “Unveiling the parent population of beamed narrow-line Seyfert 1s”, 2016, *Proceedings of the 28th Texas Symposium, Geneva, December 13-18, 2015*
- 2016 M. Berton, L. Foschini, A. Caccianiga, J. L. Richards, S. Ciroi, **E. Congiu**, V. Cracco, G. La Mura, L. Marafatto, P. Rafanelli, “Unveiling the submerged part of the iceberg: radio-loud narrow-line Seyfert 1s with SKA”, 2016, *proceeding of the conference "The many facets of extragalactic radio surveys: towards new scientific challenges"*, Bologna, October 20-23, 2015
- 2016 M. Berton, L. Foschini, S. Ciroi, A. Caccianiga, V. Cracco, G. La Mura, F. Di Mille, M. L. Lister, S. Mathur, B. M. Peterson, J. L. Richards, **E. Congiu**, M. Frezzato, P. Rafanelli, “Exploring the parent population of beamed NLS1s: from the black hole to the jet”, 2016, *Proceedings of High Energy Phenomena in Relativistic Outflows (HEPRO) V*

Astronomer’s Telegrams

First Author:

- 2018 ATel 12223, ATel 12221, ATel 12191, ATel 12159, ATel 12150

Author:

- 2019 ATel 12893
- 2018 ATel 12226, ATel 12216, ATel 12178, ATel 12175, ATel 12153, ATel 12130, ATel 11564, ATel 11552, ATel 11388
- 2017 ATel 11080, ATel 10456

Other publications

- 2019 E. Schinnerer; A. Leroy; G. Blanc; E. Emsellem; A. Hughes; E. Rosolowsky; A. Schruba; F. Bigiel; A. Escala; B. Groves; K. Kreckel; D. Kruijssen; J. Lee; S. Meidt; J. Pety; P. Sanchez-Blazquez; K. Sandstrom; A. Usero; A. Barnes; F. Belfiore; I. Bešlić; R. Chandar; D. Chatzigiannakis; M. Chevance; **E. Congiu**; D. Dale; C. Faesi; M. Gallagher; A. Garcia-Rodriguez; S. Glover; K. Grasha; J. Henshaw; C. Herrera; I. -T Ho; A. Hygate; M. Jimenez-Donaire; S. Kessler; J. Kim; R. Klessen; E. Koch; P. Lang; K. Larson; A. Le Reste; D. Liu; R. McElroy; J. Nofech; E. Ostriker; I. Pessa Gutierrez; J. Puschnig; M. Querejeta; A. Razza; T. Saito; F. Santoro; S. Stuber; J. Sun; D. Thilker; J. Turner; L. Ubeda; J. Utreras; D. Utomo; S. van Dyk; J. Ward; B. Whitmore, “The Physics at High Angular resolution in Nearby Galaxies (PHANGS) Surveys”, *The Messenger*, 117, 36;
- 2015 **E. Congiu**, “Physics and Kinematics of the Extended Narrow Line Region of Three AGN”, 2015, *MSc thesis, Universtà di Padova*