

Dr. Camilla Pacifici

Contact Information

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Experience

- June 2018 - Present **CSA Instrument Scientist for JWST/NIRISS**,
Space Telescope Science Institute, Baltimore, MD, USA.
- November 2017 - June 2018 **Postdoc in collaboration with Dr. Susan Kassin and the CANDELS team - The star formation histories of $0.2 < z < 5$ galaxies**,
Space Telescope Science Institute, Baltimore, MD, USA.
- November 2015 - October 2017 **NASA Postdoctoral Program Fellowship - The star formation histories of $0.2 < z < 5$ galaxies**,
Goddard Space Flight Center, Greenbelt, MD, USA.
Advisor: Dr. Jonathan Gardner
- April 2015 - October 2015 **Postdoc in collaboration with Dr. Susan Kassin and the CANDELS team - The star formation histories of $0.2 < z < 5$ galaxies**,
Space Telescope Science Institute, Baltimore, MD, USA.
- October 2012 - March 2015 **Postdoc fellow in the group of Prof. Sukyoung Yi - New constraints on galaxy formation and evolution**,
Yonsei University Observatory, Seoul, South Korea.
- April 2012 - September 2012 **Collaboration with Prof. Hans-Walter Rix and Dr. Elisabete da Cunha - Constraining the physical properties of 3D-HST galaxies through the combination of photometric and spectroscopic data**,
MPIA, Heidelberg, Germany.
- January 2009 - February 2012 **PhD Thesis - Relative merits of different types of observations to constrain galaxy physical parameters**,
IAP, Paris, France.
Advisor: Dr. Stéphane Charlot

Education

- May 2012 **PhD in Astronomy and Astrophysics**, *Sorbonne University*, Paris, France.
- December 2008 **Laurea in Astrophysics (Master Degree)**, *Università Milano-Bicocca*, Milano, Italy, 110/110.

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October 2006 **Laurea Triennale in Physics (Bachelor Degree)**, *Università Milano-Bicocca*, Milano, Italy, *110/110 cum laude*.

Professional Activities

- 2021 **Workshop “MOS for statistical measures of galaxy evolution”**, *Co-Chair*, STScl, Baltimore, USA.
- 2020-present **Chair of the JWWebinars**, STScl, Baltimore, USA.
- 2020-present **Executive Committee**, *Elected member*, STScl, Baltimore, USA.
- 2020-present **Project Scientist for the JWST Data Analysis Tools**, STScl, Baltimore, USA.
- 2019-present **Product Owner for the JWST Data Analysis Tools**, STScl, Baltimore, USA.
- 2017-present **Women in Astronomy Forum**, *Member*, STScl, Baltimore, USA.
- 2013-present **Referee for JKAS, MNRAS, ApJ, A&A, and Nature Astronomy**.
- 2019 **Science Evaluation Committee**, *Member*, STScl, Baltimore, USA.
- 2019 **Conference “The Art of Measuring Galaxy Physical Properties”**, *SOC*, Milan, Italy.
- 2019 **Conference “The Life and Death of Star-forming Galaxies”**, *SOC*, Perth, Australia.
- 2018 **Workshop “The Art of Measuring Physical Parameters in Galaxies”**, *Co-Chair of SOC and LOC*, Riverside, CA, USA.
- 2017 **NASA ADAP Review Panelist**.
- 2016 **STScl Spring Symposium “What Shapes Galaxies?”**, *Organizing Committee*, STScl, Baltimore, USA.
- 2016 **IAP Annual Colloquium “Cosmic dawn of galaxy formation”**, *LOC*, IAP, Paris, France.
- 2016 **NASA Earth and Space Science Fellowship Review Panelist**.

Selected Conferences, Workshops, Talks

- February 2021 **Colloquium at UNAM**, *Morelia, Mexico*.
- January 2021 **AAS JWST Town Hall “The JWWebinars”**.
- January 2020 **Sexten Workshop “The Growth of Galaxies in the Early Universe - VI”**, *Sexten*, Italy (invited talk).
- November 2019 **Subaru 20th Anniversary**, *Big Island, HI*, USA (invited talk).
- October 2019 **NIRISS collaboration meeting**, *Montreal*, Canada (talk).
- April 2019 **Colloquium at Carnegie Observatory**, USA.
- August 2018 **HotSci at STScl**, *STScl, Baltimore, MD*, USA (talk).
- October 2017 **Colloquium at CfA**, *Harvard, Cambridge, MA*, USA.
- October 2017 **Colloquium at LAM**, *Marseille*, France.
- October 2017 **Colloquium at GEPI**, *Paris*, France.

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- August 2017 **JWST workshop "Spectral diagnostics to explore the cosmic dawn with JWST"**, STScI, Baltimore, MD, USA (talk).
- June 2017 **Ringberg meeting "Advances in Galaxy Evolution"**, Germany (talk).
- February 2017 **Colloquium at UWA, Perth**, Australia.
- June 2016 **IAP Colloquium "Cosmic dawn of galaxy formation"**, IAP, Paris, France (talk).
- April 2016 **STScI Spring Symposium "What shapes galaxies?"**, STScI, Baltimore, MD, USA (talk).
- January 2016 **Sexten Workshop "The early growth of galaxies: The HST, Spitzer and Herschel joint legacy"**, Sexten, Italy (invited talk).
- September 2015 **Colloquium at Rutgers University, New Brunswick, NJ**, USA.
- July 2015 **Mocking the Universe**, STScI, Baltimore, MD, USA (talk).
- March 2015 **Colloquium at IPMU, Tokyo**, Japan.
- February 2015 **Colloquium at Swinburne University, Melbourne**, Australia.
- February 2015 **Colloquium at ASIAA, Taipei**, Taiwan.
- January 2015 **Sexten Workshop "The Spectral Energy Distribution of high redshift galaxies"**, Sexten, Italy (invited talk).
- October 2013 **Colloquium at ETH, Zurich**, Switzerland.

Training

- August 2020 **Scrum training for Product Owner**, Certified by Scrum Alliance, US.
- August 2019 **Advanced Python**, STScI, Baltimore, US.
- November 2016 **User Training in JWST Data Analysis II**, STScI, Baltimore, US.
- December 2015 **Proposal writing training**, NASA Goddard, Greenbelt, US.

Teaching and Mentoring

- 2020 - present **Mentor of 5 early career scientists.**
- 2016 - present **Co-supervisor of two JHU graduate students (Alex de la Vega and Weichen Wang)**, *My responsibilities include guiding them through their projects, which are related to galaxy evolution, galaxy stellar and dust content, SED fitting, and spectral modeling.*
- summer 2018 **Supervisor of an intern (undergraduate student Angelina Gallego)**, *Angelina worked with me for 2 months studying the effect of signal-to-noise ratio in spectra when deriving the star formation histories of galaxies..*
- summer 2017 **Supervisor of an intern (undergraduate student Rachel Losacco)**, *Rachel worked with me for 10 weeks analyzing the output of a semi-analytical model of galaxy formation in order to find correlations between the shape of the star formation histories and galaxy physical parameters.*
- 2014 **Lecturer for Computational Astronomy - Statistics**, for undergraduate and graduate students at Yonsei University, 12 hours.

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- 2014 **Co-supervisor of Dr. Lucia Rodriguez-Munoz during her PhD**, *Lucia defended her thesis in 2015. My responsibilities included helping in the data analysis, interpretation, and in writing the paper.*

Outreach Activities

- 2016 **Astronomy Science Division Jamboree**, *Coordinator of the Cosmology Laboratory, GSFC, Greenbelt, MD, USA.*
- 2016 **Italian Embassy Open Day**, *Italians at NASA booth, Washington, DC, USA.*

Grants Awarded

- 2021 **5 JWST GO programs as co-I**, Budgets still to be defined.
- 2018 **DDRF at STScI - CANDELS catalogs of galaxy physical parameters**, Co-PI, (\$29,305).
- 2016 **University of Western Australia, collaboration fund**, Co-I, (\$20,000).
- 2015 **JWST NASA Postdoctoral Program Fellowship**, PI, (\$250,000).
- 2015 **ADAP - What is the Dominant Mode of Star-Formation as a Function of Galaxy Mass and Redshift?**, Co-I, (\$325,000).
- 2014 **DDRF at STScI - Next-Generation Galaxy Spectral Energy Distribution Models**, Co-I, (\$22,000).
- 2014 **The Large Early Galaxy Astrophysics Census (LEGA-C) Public Spectroscopic Survey with VIMOS**, Co-I, (128 nights).
- 2013 **HST Cycle 21, GO-13420**, Co-I.

Observing Experience

- April 2009 **Narrow-band ($H\alpha$) imaging of local galaxies**, *San Pedro Martir Observatory, Mexico.*
(2 weeks)

Collaborations

- 2019-present **NIRISS GTO team, CANUCS**, *Member.*
- 2016-present **NIRSpec-IFU GTO team**, *Associate member, (Sponsor: Dr. Santiago Arribas).*
- 2014-present **LEGA-C Survey**, *Scientist.*
- 2013-present **CANDELS collaboration**, *Associate member.*
- 2013-2015 **3D-HST collaboration.**

Languages

- Italian **Native language**
- English, French **Fluent**

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References

1. **Dr. Stephanie La Massa**, *STScI, Baltimore, MD, USA*, slamassa@stsci.edu.
2. **Dr. Chris Willott**, *Canadian Astronomy Data Centre, National Research Council Canada*, Christopher.Willott@nrc-cnrc.gc.ca.
3. **Dr. Susan Kassin**, *STScI, Baltimore, MD, USA*, kassin@stsci.edu.