

CONTACT INFORMATION	Department of Physics, University of Milano-Bicocca Ex U2, Piazza della Scienza, 3, Milan 20126, Italy <i>E-mail:</i> weichen.wang@unimib.it <a href="https://weichenstars.github.io">https://weichenstars.github.io</a>
EDUCATION	<b>Johns Hopkins University</b> , Baltimore MD, United States Department of Physics and Astronomy, 9/2016 - 12/2022 Ph. D. in Astrophysics Thesis Advisors: Susan Kassin, Timothy Heckman <b>Tsinghua University</b> , Beijing, China Department of Physics, 8/2012 - 7/2016 B. Sc. in Physics (graduated with honors) Thesis Advisor: Shude Mao
RESEARCH EXPERIENCE	<b>University of Milano-Bicocca</b> , Milan MI, Italy 2022–now Department of Physics, Postdoc Researcher (European Research Council funded) Research topics: the circumgalactic medium and cosmic web Advisor: Sebastiano Cantalupo <b>Johns Hopkins University</b> , Baltimore MD, United States 2016–2022 Department of Physics and Astronomy, Graduate Researcher Research topics: galactic winds at $z \sim 1$ ; dust attenuation of galaxies at $z \sim 1$ Advisor: Susan Kassin <b>University of California, Santa Cruz</b> CA, United States 2/2020-3/2021; 7-9/2015 Department of Astronomy, Visiting Student Research topics: galactic winds at $z \sim 1$ ; spatially resolved star formation and dust attenuation of $z \sim 1$ galaxies Hosts: Sandra Faber, David Koo <b>Tsinghua University</b> , Beijing, China 2014 - 2016 Tsinghua Center for Astrophysics, Undergraduate Researcher Research topic: impacts of dark matter halo substructures on gravitational lensing systems Advisor: Shude Mao
PUBLICATIONS	<b>W. Wang</b> , S. Cantalupo, A. Pensabene et al. submitted (2024) <i>A Giant Disk Galaxy Two Billion Years After The Big Bang</i> <b>W. Wang</b> , S. A. Kassin, S. M. Faber, D. C. Koo et al., ApJ, 930, 146 (2022) <a href="#">[arXiv: 2109.12133]</a> : <i>The Baltimore Oriole's Nest: Cool Winds from the Inner and Outer Parts of a Star-Forming Galaxy at <math>z = 1.3</math></i> <b>W. Wang</b> , S. A. Kassin, C. Pacifici et al., ApJ, 869, 161 (2018) <a href="#">[arXiv: 1811.03671]</a> : <i>Galaxy Inclination and the IRX-<math>\beta</math> Relation: Effects on UV Star Formation Rate Measurements at Intermediate to High Redshifts</i> <b>W. Wang</b> , S. M. Faber, F.-S. Liu et al., MNRAS, 469, 4063 (2017) <a href="#">[arXiv: 1705.05404]</a> : <i>UVI colour gradients of <math>0.4 &lt; z &lt; 1.4</math> star-forming main-sequence galaxies in CANDELS: dust extinction and star formation profiles</i> All the published first-author papers have been featured in ARA&A. Click <a href="#">this ADS link</a> for the full list of publications (20 in total as of 08/2024, > 900 citations).

OBSERVATIONS AND PROPOSALS	VLT P112 Program (Co.I.; P.I.: Sebastiano Cantalupo): <i>Connecting the dots with MUSE: the Cosmic Web in emission around a massive structure at <math>z=3</math></i> , 84 hours, 2024-2025
	Subaru S24A Program (Co.I.; P.I.: Yongming Liang): <i>Origin and properties of an intergalactic-scale, metal-enriched filament at <math>z=2.3</math></i> , 2 nights, 2024
	JWST Cycle-2 Program (Co.I.; P.I.: Susan Kassin): <i>Galaxy angular momentum alignment with filaments at <math>z \sim 3</math>: The effect of large scale structure on galaxies</i> , 67.8 hours, scheduled for 2024
	<b>JWST Cycle-1 Program</b> (Co.I. with major contributions; P.I.: Susan Kassin): <i>A Pathfinder for JWST Spectroscopy: Deep High Spectral Resolution Maps of Galaxies over <math>1 &lt; z &lt; 6</math></i> , 74.3 hours, scheduled for 2023
	<b>JWST Cycle-1 Program</b> (joined in 2022 with major contributions; P.I.: Sebastiano Cantalupo): <i>Unraveling the Knots of Gaseous Cosmic Web Filaments at <math>z \sim 3</math> through H-alpha Emission Observations</i> , 24.4 hours, scheduled for 2023
	JWST Cycle-1 Program (P.I.: Steven Finkelstein): <i>The Cosmic Evolution Early Release Science (CEERS) Survey</i> , 2022-2023
	HST Cycle-30 Program (P.I.: Sebastiano Cantalupo): <i>Resolving a Massive Node of the Cosmic Web at <math>z=3</math></i> , 22 orbits, scheduled for 2023
	ALMA Cycle-8 Program (Co.I.; P.I.: Raymond Simons): <i>CO Kinematics at Cosmic Noon: Timing the Redistribution of Metals Around Galaxies</i> , 23.1 hours, 2022
	<b>ALMA Cycle-7 Program</b> (P.I.), 14.7 hours, 2021: <i>Does molecular gas follow the motion of ionized gas inside typical high-redshift star-forming galaxies?</i> Observations not completed due to weather and the impact of COVID-19 in Chile
	<b>NASA ADAP Proposal</b> (Co.I. with major contribution; P.I.: Susan Kassin): <i>Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at <math>z \sim 1</math></i> , \$485k, 2020-2022
TALKS	On-site observations at the ARC 3.5m telescope, Apache Point Observatory, NM, 11/2016
	Observing and Simulating Galaxy Evolution in the Era of JWST, Ascona, Switzerland, 2024
	Galaxies and diffuse gas in large-scale overdense environments at high redshift, Italy, 2024
	What Matter(s) Around Galaxies 2024 (SOC/LOC member), Lake Como, Italy, 2024
	Astronomy Seminars, Tsinghua University/Peking University/NAOC, Beijing, China, 2023/2024
	Astronomy Seminar, University of California, Riverside, CA (remote), 2021
	Steward/NOIRLab Galaxy Group Lunch Talk, University of Arizona, AZ (remote), 2021
	Baltimore Wind Workshop, Baltimore, MD, 2021
	Massively Parallel Large Area Spectroscopy from Space, IA, Portugal (remote), 2021
	Astrophysics Seminar at University of Missouri, MI (remote), 2020
MENTORSHIP	The Art of Measuring Physical Parameters in Galaxies, UC Riverside, CA, 2018
	Santa Cruz Galaxy workshop, Santa Cruz, CA, 2018
	AAS Meeting 231, Washington DC, 2018
	Dusting the Universe, University of Arizona, AZ, 2018
	Plumbing Star-Formation Rates in the Age of JWST, Texas A&M University, TX, 2017
	JHU/STScI Galaxy Journal Club, Baltimore, MD, 2017, 2021
	Ying Qin, JHU undergraduate in physics major, 2021-2023
	<i>Studying the MgII emission and leaking ionizing photons from low-mass galaxies at <math>z \sim 1</math></i> .
	M. Francesca Ubaldi, Bicocca undergraduate in physics major, 2023-2024:
	<i>Relations between galaxy colors and morphology based on the JWST medium-band data.</i>
TEACHING EXPERIENCE	Laboratory of Data Analysis for Master Students in Astrophysics

University of Milano-Bicocca, Spring 2023  
 Teaching Assistant, General Physics I for Biological Science Majors (171.103)  
 Johns Hopkins University, Fall 2016  
 Teaching Assistant, General Physics Laboratory (171.111)  
 Johns Hopkins University, Fall 2016

ACADEMIC SERVICE	Referee for The Astrophysical Journal, Astronomy and Astrophysics Co-Organizer and SOC/LOC member, Conference “What Matter(s) Around Galaxies 2024”, Lake Como, Italy, 2024
AWARDS	The IAU travel grant, 2019. First-year graduate student award, the JHU Department of Physics and Astronomy, 2016. National Astronomical Observatory of China Scholarship, 2016.
OUTREACH ACTIVITIES	Science outreach day at University of Milano-Bicocca, Italy 2024 <i>A community event open to students from local primary/middle schools in Milan; co-designing        the exhibition about astrophysical science with JWST</i> Member of the <b>Astro Scholars program</b> 2021-2022 <i>An annual week-long program about astrophysics and computer programming for undergradu-        ates from under-represented backgrounds; serving as a core member of the hiring &amp; education        team; monthly tag-up with the students during the rest of the year</i> Member of the Physics and Astronomy Graduate Students (PAGS) Outreach Team, Johns Hopkins University, 2017-2019 <i>Supporting visits of students from Baltimore local primary/middle schools around once per        semester and teaching fundamental physics with educational demos</i> The JHU Physics Fair, 2016-2019 <i>Annual event open to the JHU and Baltimore local communities; teaching fundamental        physics and astronomy with educational demos</i> Volunteer teacher at the Pengzhai Primary School, Guizhou, China, Summer/2013 <i>Teaching multiple STEM-related courses for Grade 3-6; the school, with very limited        resources, is located in one of the least developed areas of the country.</i>