

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 https://weichenstars.github.io
EDUCATION	Johns Hopkins University , Baltimore MD, United States Department of Physics and Astronomy, 9/2016 - 12/2022 Ph. D. in Astrophysics Thesis Advisors: Susan Kassin, Timothy Heckman Tsinghua University , Beijing, China Department of Physics, 8/2012 - 7/2016 B. Sc. in Physics (graduated with honors) Thesis Advisor: Shude Mao
RESEARCH EXPERIENCE	University of Milano-Bicocca , Milan MI, Italy 12/2022–now Department of Physics, Postdoc Researcher (European Research Council funded) Research topics: the circumgalactic medium and cosmic web Advisor: Sebastiano Cantalupo Johns Hopkins University , Baltimore MD, United States 9/2016–12/2022 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 University of California, Santa Cruz 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 Tsinghua University , Beijing, China 6/2014 - 7/2016 Tsinghua Center for Astrophysics, Undergraduate Researcher Research topic: impacts of dark matter halo substructures on gravitational lensing systems Advisor: Shude Mao
PUBLICATIONS	W. Wang , S. A. Kassin, S. M. Faber, D. C. Koo et al., ApJ, 930, 146 (2022) [arXiv: 2109.12133]: <i>The Baltimore Oriole’s Nest: Cool Winds from the Inner and Outer Parts of a Star-Forming Galaxy at $z = 1.3$</i> W. Wang , S. A. Kassin, C. Pacifici et al., ApJ, 869, 161 (2018) [arXiv: 1811.03671]: <i>Galaxy Inclination and the IRX-β Relation: Effects on UV Star Formation Rate Measurements at Intermediate to High Redshifts</i> W. Wang , S. M. Faber, F.-S. Liu et al., MNRAS, 469, 4063 (2017) [arXiv: 1705.05404]: <i>UVI colour gradients of $0.4 < z < 1.4$ star-forming main-sequence galaxies in CANDELS: dust extinction and star formation profiles</i> Click this ADS link for the full list of publications (15 in total as of 12/2022, > 300 citations).
OBSERVATIONS AND PROPOSALS	JWST Cycle-1 Program (Co.I. with major contribution; P.I.: Susan Kassin): <i>A Pathfinder for JWST Spectroscopy: Deep High Spectral Resolution Maps of Galaxies over $1 < z < 6$</i> , 74.3 hours, scheduled for 2023 JWST Cycle-1 Program (joined in 2022 with major contributions anticipated; P.I.:

	Sebastiano Cantalupo): <i>Unraveling the Knots of Gaseous Cosmic Web Filaments at $z \sim 3$ 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 $z=3$</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
	ALMA Cycle-7 Program (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
	NASA ADAP Proposal (Co.I. with major contribution; P.I.: Susan Kassin): <i>Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at $z \sim 1$</i> , \$485k, 2020-2022
	Observations at the ARC 3.5m telescope, Apache Point Observatory, NM, 11/2016
TALKS	<p>Astronomy Seminar, University of California, Riverside, CA (remote), 2021</p> <p>Steward/NOIRLab Galaxy Group Lunch Talk, University of Arizona, AZ (remote), 2021</p> <p>Baltimore Wind Workshop (contributed talk), Baltimore, MD, 2021</p> <p>Conference “Massively Parallel Large Area Spectroscopy from Space” (contributed talk), Institute of Astrophysics and Space Sciences, Portugal (remote), 2021</p> <p>Astrophysics Seminar at University of Missouri, MI (remote), 2020</p> <p>Conference “The Art of Measuring Physical Parameters in Galaxies” (contributed talk), UC Riverside, CA, 2018</p> <p>Santa Cruz Galaxy workshop (contributed talk), Santa Cruz, CA, 2018</p> <p>AAS Meeting 231 (contributed talk), Washington DC, 2018</p> <p>Conference “Dusting the Universe” (contributed talk), University of Arizona, AZ, 2018</p> <p>Conference “Plumbing Star-Formation Rates in the Age of JWST ” (contributed talk), Texas A&M University, TX, 2017</p> <p>JHU/STScI Galaxy Journal Club, Baltimore, MD, 2017, 2021</p> <p>Lunch talks, Tsinghua University and Peking University/KIAA, Beijing, China, 2017</p>
SCHOLARSHIPS AND AWARDS	<p>The IAU travel grant, 2019.</p> <p>First-year graduate student award, the JHU Department of Physics and Astronomy, 2016.</p> <p>National Astronomical Observatory of China Scholarship, 2016.</p>
MENTORSHIP	<p>Ying Qin, JHU undergraduate in physics major, since 2021:</p> <p><i>Studying the Mg II emission and leaking ionizing photons from low-mass galaxies at $z \sim 1$.</i></p>
TEACHING EXPERIENCE	<p>Teaching Assistant, General Physics I for Biological Science Majors (171.103)</p> <p>Johns Hopkins University, Fall 2016</p> <p>Teaching Assistant, General Physics Laboratory (171.111)</p> <p>Johns Hopkins University, Fall 2016</p>
OUTREACH ACTIVITIES	<p>Member of the Astro Scholars program since 2021</p> <p><i>An annual week-long program about astrophysics and computer programming for undergraduates from under-represented backgrounds; serving as a core member of the hiring & education team; monthly tag-up with the students during the rest of the year</i></p> <p>Member of the Physics and Astronomy Graduate Students (PAGS) Outreach Team, Johns Hopkins University, 2017-2019</p> <p><i>Supporting visits of students from Baltimore local primary/middle schools around once per</i></p>

semester and teaching fundamental physics with educational demos

The JHU Physics Fair, 2016-2019

Annual event open to the JHU and Baltimore local communities; teaching fundamental physics and astronomy with educational demos

Volunteer teacher at the Pengzhai Primary School, Guizhou, China, Summer/2013

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.