

CONTACT INFORMATION	<p>Department of Physics, University of Milano-Bicocca Ex U2, Piazza della Scienza, 3, Milan 20126, Italy</p> <p><i>E-mail:</i> weichen.wang@unimib.it <a href="https://weichenstars.github.io">https://weichenstars.github.io</a></p>
EDUCATION	<p><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</p> <p><b>Tsinghua University</b>, Beijing, China Department of Physics, 8/2012 - 7/2016 B. Sc. in Physics (graduated with honors) Thesis Advisor: Shude Mao</p>
RESEARCH EXPERIENCE	<p><b>University of Milano-Bicocca</b>, 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</p> <p><b>Johns Hopkins University</b>, Baltimore MD, United States 9/2016–12/2022 Department of Physics and Astronomy, Graduate Researcher Research topics: galactic winds at <math>z \sim 1</math>; dust attenuation of galaxies at <math>z \sim 1</math> Advisor: Susan Kassin</p> <p><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 <math>z \sim 1</math>; spatially resolved star formation and dust attenuation of <math>z \sim 1</math> galaxies Hosts: Sandra Faber, David Koo</p> <p><b>Tsinghua University</b>, 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</p>
PUBLICATIONS	<p><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></p> <p><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></p> <p><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></p> <p>Click <a href="#">this ADS link</a> for the full list of publications (15 in total as of 12/2022, &gt; 300 citations).</p>
OBSERVATIONS AND PROPOSALS	<p><b>JWST Cycle-1 Program</b> (Co.I. with major contribution; 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</p> <p><b>JWST Cycle-1 Program</b> (joined in 2022 with major contributions anticipated; P.I.:</p>

Sebastiano Cantalupo): *Unraveling the Knots of Gaseous Cosmic Web Filaments at  $z \sim 3$  through H-alpha Emission Observations*, 24.4 hours, scheduled for 2023

JWST Cycle-1 Program (P.I.: Steven Finkelstein): *The Cosmic Evolution Early Release Science (CEERS) Survey*, 2022-2023

HST Cycle-30 Program (P.I.: Sebastiano Cantalupo): *Resolving a Massive Node of the Cosmic Web at  $z=3$* , 22 orbits, scheduled for 2023

ALMA Cycle-8 Program (Co.I.; P.I.: Raymond Simons): *CO Kinematics at Cosmic Noon: Timing the Redistribution of Metals Around Galaxies*, 23.1 hours, 2022

**ALMA Cycle-7 Program** (P.I.), 14.7 hours, 2021: *Does molecular gas follow the motion of ionized gas inside typical high-redshift star-forming galaxies?* 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): *Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at  $z \sim 1$* , \$485k, 2020-2022

Observations at the ARC 3.5m telescope, Apache Point Observatory, NM, 11/2016

#### TALKS

Astronomy Seminar, University of California, Riverside, CA (remote), 2021  
Steward/NOIRLab Galaxy Group Lunch Talk, University of Arizona, AZ (remote), 2021  
Baltimore Wind Workshop (contributed talk), Baltimore, MD, 2021  
Conference “Massively Parallel Large Area Spectroscopy from Space” (contributed talk), Institute of Astrophysics and Space Sciences, Portugal (remote), 2021  
Astrophysics Seminar at University of Missouri, MI (remote), 2020  
Conference “The Art of Measuring Physical Parameters in Galaxies” (contributed talk), UC Riverside, CA, 2018  
Santa Cruz Galaxy workshop (contributed talk), Santa Cruz, CA, 2018  
AAS Meeting 231 (contributed talk), Washington DC, 2018  
Conference “Dusting the Universe” (contributed talk), University of Arizona, AZ, 2018  
Conference “Plumbing Star-Formation Rates in the Age of JWST ” (contributed talk), Texas A&M University, TX, 2017  
JHU/STScI Galaxy Journal Club, Baltimore, MD, 2017, 2021  
Lunch talks, Tsinghua University and Peking University/KIAA, Beijing, China, 2017

#### SCHOLARSHIPS AND 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.

#### MENTORSHIP

Ying Qin, JHU undergraduate in physics major, since 2021:  
*Studying the Mg II emission and leaking ionizing photons from low-mass galaxies at  $z \sim 1$ .*  
M. Francesca Uboldi, Bicocca undergraduate in physics major, since 2023:  
*Exploring the relations between galaxy colors and morphology using the JWST medium-band imaging data.*

#### 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 of The Astrophysical Journal, Astronomy and Astrophysics  
External Reviewer for the Hubble Space Telescope Cycle 31 Programs

OUTREACH  
ACTIVITIES

Member of the [Astro Scholars program](#) since 2021

*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*

Member of the Physics and Astronomy Graduate Students (PAGS) Outreach Team, Johns Hopkins University, 2017-2019

*Supporting visits of students from Baltimore local primary/middle schools around once per 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.*