

CONTACT INFORMATION	<p>Department of Physics and Astronomy, Johns Hopkins University</p> <p>Bloomberg Center for Physics and Astronomy, 3400 N. Charles Street, Baltimore, MD 21218, United States</p> <p><i>E-mail:</i> wcwang@jhu.edu https://weichenstars.github.io</p>
EDUCATION	<p>Johns Hopkins University, Baltimore MD, United States Department of Physics and Astronomy, 8/2016 - 8/2022 (expected) Ph. D. in Astrophysics Thesis Advisors: Susan Kassin, Timothy Heckman</p> <p>Tsinghua University, Beijing, China Department of Physics, 8/2012 - 7/2016 B. Sc. in Physics (graduated with honors) Thesis Advisor: Shude Mao</p>
RESEARCH EXPERIENCE	<p>Johns Hopkins University, Baltimore MD, United States 9/2016–now 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</p> <p>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</p> <p>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</p>
PUBLICATIONS	<p>W. Wang, S. A. Kassin, S. M. Faber, D. C. Koo et al. (submitted, 2021) [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></p> <p>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></p> <p>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></p> <p>Click this ADS link for the full publication list (9 papers, >130 citations as of Oct. 2021).</p>
OBSERVATIONS AND PROPOSALS	<p>JWST Cycle-1 proposal (Co.I. with major contribution; P.I.: Susan Kassin), 74.3 hours: <i>A Pathfinder for JWST Spectroscopy: Deep High Spectral Resolution Maps of Galaxies over $1 < z < 6$</i>, scheduled for 2022</p> <p>ALMA Cycle-8 proposal (Co.I.; P.I.: Raymond Simons), 23.1 hours: <i>CO Kinematics at Cosmic Noon: Timing the Redistribution of Metals Around Galaxies</i>, scheduled for 2022</p>

	<p>ALMA Cycle-7 proposal (P.I.), 14.7 hours: <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, 2021</p> <p>NASA ADAP proposal (Co.I. with major contribution; P.I.: Susan Kassin), \$485k: <i>Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at $z \sim 1$</i>, 2020-2022 Observations at the ARC 3.5m telescope, Apache Point Observatory, NM, 11/2016</p>
TALKS	<p>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</p>
SCHOLARSHIPS AND AWARDS	<p>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.</p>
MENTORSHIP	<p>Ying Qin, JHU undergraduate in physics major, since 2021: <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) Johns Hopkins University, Fall 2016 Teaching Assistant, General Physics Laboratory (171.111) Johns Hopkins University, Fall 2016</p>
OUTREACH ACTIVITIES	<p>Member of the Astro Scholars program since 2021 <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 <i>Supporting visits of students from Baltimore local primary/middle schools around once per semester and teaching fundamental physics with educational demos</i></p> <p>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></p> <p>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></p>