

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> <a href="mailto:wcwang@jhu.edu">wcwang@jhu.edu</a> <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 - 9/2022 (expected) 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>Johns Hopkins University</b>, Baltimore MD, United States 9/2016–now 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 in press (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 (10 in total as of 3/2022).</p>
OBSERVATIONS AND PROPOSALS	<p><b>JWST Cycle-1 proposal</b> (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 <math>1 &lt; z &lt; 6</math></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><b>ALMA Cycle-7 proposal</b> (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><b>NASA ADAP proposal</b> (Co.I. with major contribution; P.I.: Susan Kassin), \$485k:  <i>Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at <math>z \sim 1</math></i>, 2020-2022</p> <p>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</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&amp;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:  <i>Studying the Mg II emission and leaking ionizing photons from low-mass galaxies at <math>z \sim 1</math>.</i></p>
TEACHING EXPERIENCE	<p>Teaching Assistant, General Physics I for Biological Science Majors (171.103)  Johns Hopkins University, Fall 2016</p> <p>Teaching Assistant, General Physics Laboratory (171.111)  Johns Hopkins University, Fall 2016</p>
OUTREACH ACTIVITIES	<p>Member of the <a href="#">Astro Scholars program</a> 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 &amp; 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>