

CONTACT INFORMATION	Department of Physics and Astronomy, Johns Hopkins University Bloomberg Center for Physics and Astronomy, 3400 N. Charles Street, Baltimore, MD 21218, United States	<i>E-mail:</i> wcwang@jhu.edu https://weichenstars.github.io
EDUCATION	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 Tsinghua University , Beijing, China Department of Physics, 8/2012 - 7/2016 B. Sc. in Physics (graduated with honors) Thesis Advisor: Shude Mao	
RESEARCH EXPERIENCE	Johns Hopkins University , Baltimore MD, United States 9/2016–now Department of Physics and Astronomy, Graduate Researcher Research topics: galactic winds at $z \sim 1$ using KECK/DEIMOS; dust attenuation law and dust geometry of $z \sim 1$ galaxies Advisor: Susan Kassin University of California, Santa Cruz CA, United States 7/2015- 9/2015; 1/2017 Department of Astronomy, Visiting Student Research topic: spatially resolved star formation and dust attenuation of $z \sim 1$ galaxies Advisors: Sandra Faber, David Koo Tsinghua University , Beijing, China 6/2014 - 7/2016 Tsinghua Center for Astrophysics, Undergraduate Researcher Research topic: effects of dark matter halo substructure on gravitational lensing systems Advisor: Shude Mao	
PUBLICATIONS	W. Wang , S. A. Kassin, S. M. Faber, D. C. Koo et al. (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> W. Wang , S. A. Kassin, C. Pacifici et al., ApJ, 869, 161 (2018): <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): <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 publication list.	
TEACHING EXPERIENCE	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	

TALKS	<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 work shop (contributed talk), Santa Cruz, CA, 2018</p> <p>AAS Meeting 231 (contributed talk), Washington DC, 2018</p> <p>Conference “Plumbing Star-Formation Rates in the Age of JWST ” (contributed talk), Texas A&M University, TX, 2017</p> <p>Conference “Dusting the Universe” (contributed talk), University of Arizona, AZ, 2018</p> <p>JHU/STScI Galaxy Journal Club, Baltimore, MD, 2017</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>
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</p> <p>Observations at the ARC 3.5m telescope, Apache Point Observatory, NM, 11/2016</p>
MENTORSHIP	<p>Ying Qin, JHU undergraduate in physics major, since 2021: <i>Studying the Mg II emission of low-mass galaxies at $z \sim 1$.</i></p>
OUTREACH ACTIVITIES	<p>Member of the Astro Scholars program since 2021</p> <p><i>An annual week-long mini-course about astrophysics and computer programming for undergraduates from under-represented backgrounds; monthly meetings with the students over Zoom 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>Regularly support student visits from Baltimore local primary/middle schools</i></p> <p>The JHU Physics Fair, 2016-2019</p> <p><i>Annual event open to Baltimore local communities and JHU undergraduates with educational demos related to fundamental physics and astronomy</i></p>
SERVICE	<p>Referee of The Astrophysical Journal (since 2018)</p>