Weichen Wang (Updated August, 2021) **Curriculum Vitae**

CONTACT INFORMATION

Department of Physics and Astronomy
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https://weichenstars.github.io

EDUCATION

Johns Hopkins University, MD, United States
Department of Physics and Astronomy, August, 2016 - now

Graduate Student
Advisor: Susan Kassin

Tsinghua University, Beijing, China
8/2012 - 7/2016
B. Sc. in Physics (graduate with honors)
Thesis: Galaxy formation and evolution in CANDELS
Advisors: Shude Mao, Sandra Faber

RESEARCH EXPERIENCE

Johns Hopkins University, MD, United States 9/2016–now
Department of Physics and Astronomy *Graduate Student*
Galactic winds at $z \sim 1$ using KECK/DEIMOS from the HALO7D survey (P.I.: Guhathakurta); dust attenuation law and dust geometry of the star-forming galaxies at $z \sim 1$.
- Advisor: Susan Kassin (STScI)

University of California, Santa Cruz, CA, United States 7/2015- 9/2015; 1/2017
Department of Astronomy *Visiting Student*
Spatially resolved star formation and dust attenuation of $z \sim 1$ galaxies.
- Advisors: Sandra Faber, David Koo

Tsinghua University, Beijing, P.R. China 6/2014 - 7/2016
Tsinghua Center for Astrophysics *Undergraduate Researcher*
Effects of dark matter halo substructure on gravitational lensing systems.
- Advisor: Shude Mao

PUBLICATIONS

W. Wang, S. A. Kassin, S. M. Faber, David C. Koo et al., 2021 to be submitted:
The Baltimore Oriole's Nest: Outflows from a Star-Forming Galaxy at $z = 1.3$
W. Wang, S. A. Kassin, C. Pacifici et al., ApJ, 869, 161 (2018)
W. Wang, S. M. Faber, F.-S. Liu et al., MNRAS, 469, 4063 (2017)
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

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 work shop (contributed talk), Santa Cruz CA, 2018

AAS Meeting 231 (contributed talk), Washington DC, 2018

Conference "Plumbing Star-Formation Rates in the Age of JWST " (contributed talk), Texas A&M University, TX, 2017

Conference "Dusting the Universe" (contributed talk), University of Arizona, AZ, 2018

JHU/STScI Galaxy Journal Club, Baltimore MD, 2017

Lunch talks, Tsinghua Center for Astrophysics and Peking University/KIAA, 2017

Scholarships and Awards

The IAU travel grant, 2019.

National Astronomical Observatory of China (NAOC) Scholarship, 2016.

Observations and Proposals

JWST Cycle-1 proposal (Co.I. with major contribution; P.I.: Susan Kassin), 74.3 hours:
A Pathfinder for JWST Spectroscopy: Deep High Spectral Resolution Maps of Galaxies over 1<z<6, scheduled for 2022

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

ALMA Cycle-7 proposal (P.I.), 14.7 hours:
Does molecular gas follow the motion of ionized gas inside typical high-redshift star-forming galaxies? not observed due to weather and the COVID-19 situation in Chile, 2021

NASA ADAP proposal (Co.I. with major contribution; P.I.: Susan Kassin), $485k:
Expelling Gas from Galaxies in the Distant Universe: Resolved Winds and Kinematics at $z\sim 1$, 2020-2022

ARC 3.5m telescope, Apache Point Observatory, Nov 19 - 21th, 2016

Mentorship

Ying Qin, JHU undergraduate in physics major, since 2021:
Studying the Mg II emission of low-mass galaxies at $z \sim 1$.

Outreach Activities

Member of the Astro Scholars program since 2021

An annual week-long interactive mini-course in astrophysics, research in astrophysics, and computer programming for undergraduates from under-represented backgrounds

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

Regularly support student visits from Baltimore local primary/middle schools

The JHU Physics Fair, 2016-2019

Annual event open to Baltimore local communities and JHU undergraduates with educational demos related to fundamental physics and astronomy

Relevant Skills

- Programing: Python, IRAF, IDL, C++
- Operating Systems: Unix, Linux, Mac OS

Service

Referee of The Astrophysical Journal (since 2018)