

Yuguang Chen 陈昱光

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Education

- 2015– **California Institute of Technology**, *M.S., 2017; Ph.D. in Astrophysics, 2021 (expected)*, Advisor: Charles C. Steidel.
- 2011–2015 **Peking University**, *B.S. in Astronomy, 2015*, Advisors: Gregory J. Herczeg, Luis C. Ho.

Research

- 2015– **Circumgalactic Medium in the KBSS Survey.**
 - CGM of star-forming galaxies at $z \sim 2$, mostly H I kinematics and radiative transfer in both absorption and emission.
 - CGM of AGN-host galaxies.
 - Connections between CGM and properties of its host-galaxies.
 - Chemical composition and ionizing states in the CGM.Reference: Prof. Charles C. Steidel.
- 2013–2015 **Sloan Digital Sky Survey Reverberation Mapping.**
 - Observation and data reduction of the broad-band photometric data.References: Prof. Xiaohui Fan, Dr. Ian McGreer, and Prof. Luis C. Ho.
- 2012–2015 **Evolution of Classical T Tauri Stars.**
 - Time-domain analysis of high-resolution spectra of TW Hydra.Reference: Prof. Gregory J. Herczeg.

Teaching

Teaching Assistantship

- **Ay121 – Radiative Process (Caltech)**. Instructor: Prof. Evan Kirby, 2016.
- **Ay124 – Structure and Dynamics of Galaxies (Caltech)**. Instructor: Prof. Phil Hopkins,

2017.

- **Ay105 – Optical Astronomy Instrumentation Lab (Caltech)**. Instructor: Prof. Dimitri Mawet, 2017.
- **Ay20 – Basic Astronomy and the Galaxy (Caltech)**. Instructor: Prof. Evan Kirby, 2018.
- **Ay127 – Cosmology and Galaxy Formation (Caltech)**. Instructors: Prof. Chuck Steidel and Prof. Chris Martin, 2019.


Professional Experiences

Observations

- **Keck**
KCWI: >30 nights;
LRIS: >30 nights;
MOSFIRE: >30 nights;
OSIRIS: 3 nights.
- **Bok 90Prime**: ~25 nights.
- **UH88 SNIFS**: 10 nights.
- **LBT MODS, LUCI**: 5 nights.

Programming

IDL, Python, L^AT_EX, HTML.

Github:  <https://github.com/yuguangchen1>.

Awards & Fellowships

- **NAOC Scholarship**, 2013, 2014;
- **Lin-Bridge Scholarship**, 2013, 2014;
- **CSC Undergraduate International Visiting Fellowship**, 2013;
- **May-4th Scholarship**, 2012;

Other Experiences

- **Cahill Rooftop Observatory**: Manager, 2017 – Now;
- **Caltech Astronomy Outreach**: General management, lecture and stargazing organizer, volunteer, 2016 – Now;
- **University of Arizona**: Visiting student, 2014;
- **Astronomy Undergraduate Research Symposium at Peking University**: Co-organizer, 2013;
- **Peking University Youth Astronomy Society**: President, 2012 – 2013.

Publications

Full list

At ADS: <https://ui.adsabs.harvard.edu/public-libraries/skD6E57kS8WLR3PhbibihQ>

Leading Authors

- Chen, Yuguang, Steidel, Charles C., et al, 2020, arXiv:2006.13236;
“The Keck Baryonic Structure Survey: Using foreground/background galaxy pairs to trace the structure and kinematics of circumgalactic neutral hydrogen at $z \sim 2$ ”.
- Law, David R., Steidel, Charles C., Chen, Yuguang, et al, 2018, ApJ, 866, 119L;
“Imaging Spectroscopy of Ionized Gaseous Nebulae around Optically Faint AGNs at Redshift $z \sim 2$ ”.
- Erb, Dawn K., Steidel, Charles C., Chen, Yuguang, 2018, ApJ, 862L, 10E;
“The Kinematics of Extended Ly α Emission in a Low-mass, Low-metallicity Galaxy at $z = 2.3$ ”.

Last Update: 09/08/2020