LEI YANG

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RESEARCH INTERESTS

- Galaxy formation and evolution
- Galaxy-dark matter halo connection
- Large-scale structure of the Universe

EDUCATION

- **Shanghai Jiao Tong University**   *April 2015 - June 2019* (expected)
  Ph.D. in Astronomy
  Superviser: Prof. Jing, Yipeng
  Thesis: *"Toward accurate measurement of the property-dependent galaxy clustering"*
- **Case Western Reserve University**   *August 2012 - June 2014*
  M.S. in Astronomy
  Academic Adviser: Prof. Morrison, Heather
- **Peking University**   *September 2009 - June 2012*
  M.S. in Astrophysics
  Superviser : Prof. Peng, Eric W.
  Thesis: *"Measuring Detailed Chemical Abundances from Co-added Medium-resolution Spectra I. Tests Using Milky Way Dwarf Spheroidal Galaxies and Globular Clusters"*
- **Hebei University**   *September 2004 - June 2008*
  B.S. in Optical Information Science And Technology
  Thesis: *"Optical correction for digital image"*

EXPERIENCE

Research

- Measuring rotation curves of the low surface brightness galaxies with long-slit spectra (CWRU, *Summer 2013*)
- Calculating the galaxy two-point correlation function (CWRU, *Spring 2014*)
- Co-added spectral method testing with the Milky Way RGB stars (UCSC, *Apr-May 2011*)
- Co-added programming and spectrum analysis (Caltech, *March 2011*)

Teaching

- TA and instructor, Experiment of College Physics on temperature sensor (SJTU, *Spring 2016*)
- TA, Introduction to Astrophysics (SJTU, *Fall 2015/2016*)
- TA, Galaxies and Cosmology (CWRU, *Spring 2013*)
- TA, The Sun and its Planets (CWRU, *Fall 2013 and Spring 2014*)
- TA, Thermal Physics (PKU, *Fall 2011*)

Talks

- Research Talk:*Using the Modified Nearest Neighbor method to correct the fiber-collision effects on galaxy clustering (DESI 6th Workshop, U. of Utah Mar 26, 2019)*

- Lunch Talk: *Detailed chemical abundances measurements from medium resolution co-added Spectra (CWRU, Feb 21, 2013)*
- Public Talk: *Gravitational waves (Shangbao Middle school, Apr 11, 2016)*

PUBLICATION

- **Lei Yang**, Yipeng Jing, Xiaohu Yang "*Accurate measurements of the property-dependent galaxy clustering with $V_{\max}$ random samples*" 2019, submitted to ApJ
- **Lei Yang**, Yipeng Jing, Xiaohu Yang, Jiaxin Han "*Using modified nearest neighbor method to correct fiber-collision effects on galaxy clustering*" 2019, ApJ, 872, 26Y
- **Lei Yang**, Evan N. Kirby, Puragra Guhathakurta, Eric W. Peng, Lucy Cheng " *Measuring Detailed Chemical Abundances from Co-added Medium-resolution Spectra I. Tests Using Milky Way Dwarf Spheroidal Galaxies and Globular Clusters*" 2013, ApJ, 768, 4Y

SKILLS

- Programming   Fortran, IDL, Python
- Others   Linux, IRAF, DS9, Openmp

REFERENCES

- **Prof. Yipeng Jing**
  Department of Astronomy, School of Physics and Astronomy, Shanghai Jiao Tong University
  Email: ypjing@sjtu.edu.cn

- **Prof. Xiaohu Yang**
  Department of Astronomy, School of Physics and Astronomy, Shanghai Jiao Tong University
  Email: xyang@sjtu.edu.cn

- **Prof. Ying Zu**
  Department of Astronomy, School of Physics and Astronomy, Shanghai Jiao Tong University
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- **Prof. Hong Guo**
  Shanghai Astronomical Observatory, Chinese Academy of Sciences
  Email: guohong@shao.ac.cn