

John J Vickers

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Education

- Doktor Rerum Naturalium (PhD) at Universität Heidelberg
Area: Astronomy; Specialization: Galactic Astronomy
Grade: 1.5 / 1.0 (Magna Cum Laude)
 - Bachelor of Science at Rensselaer Polytechnic Institute
Area: Physics; Specialization: Astrophysics
Grade: 3.78 / 4.0 (Magna Cum Laude)
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Work Experience

- **Spring 2017 - Present: PIFI Research Fellowship**
Studying Stellar Ages using LAMOST spectroscopy and TGAS astrometry.
With Prof. Martin C. Smith in Shanghai, China
 - **Spring 2015 - Winter 2016: LAMOST Research Fellowship**
Studying Galactic substructure using LAMOST spectroscopy.
With Prof. Martin C. Smith in Shanghai, China
 - **Summer 2011 - Winter 2014: Marie Curie Research Fellowship**
Studying Galactic substructure using multiband photometry to isolate various stellar populations.
With Prof. Eva K. Grebel in Heidelberg, Germany
 - **Summer 2013: Visiting Researcher**
Characterized chemo-kinematic outliers in metal rich dwarf stars in SDSS¹ data.
With Prof. Martin C. Smith in Shanghai, China
 - **Fall 2010 - Spring 2011: Undergraduate Researcher**
Characterized Palomar 5 structure and kinematics in SDSS data using Python.
With Prof. Heidi J. Newberg in Troy, New York
 - **Fall 2010 - Spring 2011: Undergraduate Researcher**
Coded 3 dimensional diffusion simulations in Python.
With Prof. E. Bruce Watson in Troy, New York
 - **Summer 2010: Visiting Undergraduate Researcher**
Checked LAMOST image quality over time in guidance CCDs using SExtractor, DS9 and Python.
With Dr. Zhang Haotong in Beijing, China
 - **Summer 2008 to Spring 2010: Undergraduate Researcher**
Assistant Milkyway@Home BOINC researcher coding in C++ and TCL and performing public outreach.
With Prof. Heidi J. Newberg in Troy, New York
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Publications

- *The Lives of Stars: Insights from the TGAS–RAVE–LAMOST Data Set*
John J. Vickers & Martin C. Smith (ApJ, Volume 860, Issue 2, article id. 91, 16 pp. 2018)
- *A Global Correction to PPMXL Proper Motions*
John J. Vickers, Siegfried Röser, Eva K. Grebel (AJ, Volume 151, Issue 4, article id. 99, 9 pp. 2016.)

¹Sloan Digital Sky Survey

- *LAMOST 1: A Disrupted Satellite in the Constellation Draco*²
John J. Vickers, Martin C. Smith, Yonghui Hou, Yufei Wang, Yong Zhang (ApJL Volume 816, Issue 1, article id. L2, 5 pp. 2016)
 - *Red Runaways: Hypervelocity Stars, Hills Ejecta and Other Outliers in the F-to-M Star Regime*
John J. Vickers, Martin C. Smith, Eva K. Grebel (AJ Volume 150, Issue 3, article id. 77, 16 pp. 2015)
 - *A Stellar Population Synthesis Model for the Study of Ultraviolet Star Counts of the Galaxy*
Ananta C. Pradhan, D. K. Ojha, A. C. Robin, S. K. Ghosh, **John J. Vickers** (A&A, Volume 565, id.A33, 13 pp. 2014)
 - *Identifying Blue Horizontal Branch Stars Using the z Filter*
John J. Vickers, Eva K. Grebel, Avon P. Huxor, (AJ Volume 143, Issue 4, article id. 86, 9 pp. 2012)
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Conference Talks

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| • European Week Of Astronomy and Space Science | July 2016, Athens, Greece
July 2017, Prague, Czech Republic |
| • The Milky Way Unraveled By Gaia | December 2014, Barcelona, Spain |
| • Pan-STARRS Astrometry | September 2013, Heidelberg, Germany |
| • Pan-STARRS ³ Science Consortium | January 2011, Honolulu, Hawaii
August 2012, Durham, UK |
| • LAMOST Workgroup Meetings | June 2009, Beijing, China
April 2016, Beijing, China |
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²Subsequently featured at <http://phys.org/news/2015-12-disrupted-globular-cluster-constellation-draco.html> as well as <http://aasnova.org/2016/03/04/how-to-spot-a-disrupted-galactic-satellite/>

³Panoramic Survey Telescope and Rapid Response System