# Weixiang Yu

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## EDUCATION

**Drexel University** 2017 - 2022 (expected)
Ph.D., Physics
Advisor: Prof. Gordon T. Richards

**University of Illinois at Urbana-Champaign** 2013 - 2015
B.S., Physics

**Miami University** 2011 - 2013
Major in Physics

## EMPLOYMENT

**Drexel University** 2017 - Present
*Graduate Teaching Fellow*

**National Center for Supercomputing Applications** 2016 - 2017
*Academic Professional, Dark Energy Survey Data Management*

## RESEARCH INTERESTS

AGN/quasar selection in large astronomical surveys, time series analysis in astronomy, AGN variability, astronomical Big Data, applications of machine learning techniques in astronomy

## PUBLICATIONS

1. Moreno, J., Vogeley, M.S., Richards, G.T., **Yu, W.** 2019, "Stochastic Modeling Handbook for Optical AGN Variability" *Publications of the Astronomical Society of the Pacific*, 131, 1000

2. **Yu, W.**, Carrasco Kind, M., Brunner, R.J. 2017, "Vizic: A Jupyter-based Interactive Visualization Tool for Astronomical Catalogs", *Astronomy and Computing*, 20, 128-139

## CONFERENCE PRESENTATIONS

1. **Yu, W.**, Moreno, J., Richards, G.T., Vogeley, M.S. "Direct Modeling of AGN Variability Using Continuous-Time ARMA Processes", American Astronomical Society, AAS Meeting #236, Madison, WI, June 2020 (talk)

2. **Yu, W.** "Investigating the Effects of Non-Uniform Cadences on AGN selection in LSST", Quasar Day at Drexel, Philadelphia, PA, March 2019 (talk)

3. **Yu, W.**, Richards, G.T., Moreno, J. "Investigating the Effects of Non-Uniform Cadences on AGN selection in LSST", American Astronomical Society, AAS Meeting #233, id.242.27, Seattle, WA, January 2019 (poster)

4. **Yu, W.** "Vizic: A Jupyter-based Interactive Visualization Tool for Astronomical Catalogs", SciPy 2017 Conference, Austin, TX, July 2017 (talk)

5. **Yu, W.**, Carrasco Kind, M., Brunner, R.J. "A Jupyter-based Interactive Visualization Tool for Astronomical Catalogs", American Astronomical Society, AAS Meeting #229, id.438.02, Dallas, TX, January 2017 (poster)

## RESEARCH GRANTS

XSEDE (**Co-I**; PI: Richards), 500k CPU hours 2019-2020
*Investigating the Effects of Non-Uniform Cadences on AGN selection in LSST*

## AWARDS & HONORS

LSSTC Workshop Travel Award - *Data Visualization and Exploration in the LSST Era* 2018
R.L. Edward Scholarship - Miami University 2012
Second Prize in the Patterson Examination - Miami University 2012

## PROFESSIONAL SKILLS

- Programming Language: Python, Julia, C/C++, Matlab, Java, JavaScript/HTML/CSS
- Data Analysis: SciPy, NumPy, Pandas, scikit-learn, DS9
- Data Visualization: Matplotlib, D3.js
- Laboratory: LabVIEW, OriginLab
- Database: SQL, MongoDB
- Other: Docker, LaTeX, Shell, OpenStack, Web Development

## PROFESSIONAL MEMBERSHIPS

- American Astronomical Society
- LSST AGN Science Collaboration (Full Member)
- LSST Dark Energy Science Collaboration (Associate Member)