Jay Franck

Case Western Reserve University 10900 Euclid Ave. Cleveland, OH 44106 U.S.A.

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Born: October 15, 1987-Traverse City, MI

Current position

Astronomy PhD Candidate Case Western Reserve University

Areas of specialization

High Redshift Protoclusters; Extragalactic Novae.

Education

BS in Astrophysics, Michigan State University
MS in Astronomy, San Diego State University

Grants, honors & awards

Ruth and Clifford Smith Graduate Fellowship
William F. Lucas Scholarship
Awona W. Harrington Award for Service
Reginald F. Buller Award for Service
Sigma Xi, Grants-In-Aid of Research Recipient

Publications

2012

Franck, J. R.; Shafter, A. W.; Hornoch, K.; Misselt, K. A., "The Nova Rate in NGC 2403", Astrophysical Journal 760: 13F

Franck, J. R.; McGaugh, S. S.; Schombert, J. M., "Three candidate clusters around high redshift radio-loud sources: MG1 J04426+0202, 3C 068.2, MS 1426.9+1052", Astronomical Journal Submitted

Franck, J. R.; McGaugh, S. S., "The Candidate Cluster and Protocluster (CCPC) Catalog of spectroscopically identified structures spanning 2.74 < z < 3.71", *Astronomical Journal* Submitted

Observing Experience

Mount Laguna Observatory 40 inch Telescope, Eclipsing Binary Light Curves

KPNO Burrell-Schmidt Telescope, Surface Brightness Profiles of M33, Light Echoes around

the Crab Nebula

2013

2011

2014 Combined Array for Research in Millimeter-wave Astronomy (CARMA), Measurements

of the Sunyaev-Zel'Dovich Effect in High Redshift Clusters

²⁰¹⁵ CTIO Blanco 4-meter with DECam, Probing High Redshift Quasars for Galaxy Overdensities

Computational Skills

Languages

Python/NumPy, MATLAB, LaTeX, Fortran 77/90, JavaScript, IRAF, R, C++

EXPERIENCE

Machine Learning, Data Mining, Numerical Recipes, Data Science, Scripting

Teaching

2010-2012 Introductory Astronomy Laboratory for non-Majors

Introductory Astronomy Lecture for non-Majors-Temporary Lecturer

Academic Organizations

Society of Physics Students (SPS), Michigan State University
Schwartz Astronomical Society (SAS), San Diego State University

²⁰¹³⁻²⁰¹⁵ Graduate Student Senate (GSS) Senator, Case Western Reserve University Graduate Student Council Representative, Case Western Reserve University

Outreach

2011-2012 Mount Laguna Observatory, Public Telescope Night Presenter

2011-2012 San Diego Science Festival of Science and Engineering, Planetarium Presenter