



# THE UNIVERSITY OF CHICAGO

## COMPUTATIONAL AND APPLIED MATHEMATICS COLLOQUIUM

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Johns Hopkins Whiting School of Engineering

CAM Foundations of Survey Astronomy

THURSDAY, November 21, 2019, at 4:00 PM  
Jones 226, 5747 South Ellis Avenue

### ABSTRACT

Dedicated telescopes systematically survey the sky every night over the entire electromagnetic spectrum, so that astronomer can perform statistical studies of cosmic populations. At the core of the research are mathematical and computational challenges of data fusion across time and wavelengths. I will discuss our ongoing efforts on statistical cross-identification of sources and robust registration of fields, as well as new ideas for incrementally building catalogs that summarize all observations up to date.

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#### Organizer:

Daniel Sanz-Alonso, Department of Statistics, [sanzalonso@uchicago.edu](mailto:sanzalonso@uchicago.edu)  
CAM Colloquium URL: <https://cam.uchicago.edu/events/cam-colloquium/>.

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