Lead Investigator: Brian Kloppenborg

Company specializations:
Data Science, GPU acceleration, Machine Learning
Areas of Interest

- Image reconstruction
- 5D target modeling
- GPU accelerated data pipelines
- Big Data
- Machine Learning

From Kloppenborg et al. 2015
My capabilities and qualifications

- OI image reconstruction
  - 1st to apply GPUs
    (Baron and Kloppenborg 2010)
  - 1st to do 5D image reconstruction
    (Baron, Kloppenborg, Monnier 2012)
- OI Modeling Software “SIMTOI”
  - 5D, GPU accelerated,
  - 300x faster than some competitors
- Work with large data sets
  - Largest OI data set on single object
    (28,247 UV points, 4500 single night)
  - Current big data project:
    155 GB, 80 million data points 

From Kloppenborg et al. 2015
Bring me onto your team

**Image Reconstruction**
Leverage my experience to build fast, resilient, and reliable image reconstruction software.

**Satellite Modeling**
New software to build convex surfaces from OI, photometric, and other data.

**Acceleration of Data Pipelines**
Increase the speed of your data reduction pipeline to meet required turnaround time.

**Application of Machine Learning to Optical Interferometry**
Improved fringe tracking, more responsive AO, intelligent data reduction, intelligent image reconstruction.

**Simulation Software**
Test the feasibility of your solution given realistic observing simulations.
Contact Information

Brian Kloppenborg
CEO
Pratum Labs, LLC
brian@pratumlabs.com
http://pratumlabs.com