

## Publication List

---

### First author

CHARACTERIZING 51 ERI B FROM 1 TO 5  $\mu\text{m}$ : A PARTLY CLOUDY EXOPLANET  
**Rajan, A.**, Rameau, R., De Rosa, R.J., Marley, M.S., Graham, J.R., Macintosh, B., Marois, C., Morley, C., Patience, J., Pueyo, L., Saumon, D., Ward-Duong, K., et al.  
*2017 AJ, 154, 10*

EXOPLANET METEOROLOGY: CHARACTERIZING THE ATMOSPHERES OF DIRECTLY IMAGED SUB-STELLAR OBJECTS  
**Rajan, A.**  
 2017, Ph.D. Thesis, 10.5281/zenodo.804060

CHARACTERIZING THE ATMOSPHERES OF THE HR8799 PLANETS WITH HST/WFC3  
**Rajan, A.**, Barman, T., Soummer, R., Brendan H., J., Patience, J., Pueyo, L., Choquet, E., Konopacky, Q., Macintosh, B., Marois, C.  
*2015 ApJL, 809, 33*

THE BROWN-DWARF ATMOSPHERE MONITORING (BAM) PROJECT II: MULTI-EPOCH MONITORING OF EXTREMELY COOL BROWN DWARFS  
**Rajan, A.**, Patience, J., Wilson, P. A., Bulger, J., De Rosa, R. J., Ward-Duong, K., Morley, C., Pont, F., Windhorst, R.  
*2015, MNRAS, 448, 2618*

### Second author

DIRECT IMAGING OF AN ASYMMETRIC DEBRIS DISK IN THE HD 106906 PLANETARY SYSTEM  
 Kalas, P., **Rajan, A.**, [65 authors]  
*2015, ApJ, 814, 32*

THE BROWN DWARF ATMOSPHERE MONITORING (BAM) PROJECT I: THE LARGEST NEAR-IR MONITORING SURVEY OF L- & T-DWARFS  
 Wilson, P. A., **Rajan, A.**, Patience, J.  
*2014, A&A, 566, 111*

### Co-author

IMPROVING AND ASSESSING PLANET SENSITIVITY OF THE GPI EXOPLANET SURVEY WITH A FORWARD MODEL MATCHED FILTER  
 Ruffio, J.-B., [38 authors], **Rajan, A.**, [12 authors]  
*2017, ApJ, 842, 14*

COMPLEX SPIRAL STRUCTURE IN THE HD 100546 TRANSITIONAL DISK AS REVEALED BY GPI AND MAGAO  
 Follette, K. B., [42 authors], **Rajan, A.**, [12 authors]  
*2017, AJ, 153, 264*

AN OPTICAL/NEAR-INFRARED INVESTIGATION OF HD 100546 b WITH THE GEMINI PLANET IMAGER AND MAGAO

Rameau, J., [42 authors], **Rajan, A.**, [11 authors]

2017, *AJ*, 153, 244

INTEGRAL FIELD SPECTROSCOPY OF THE LOW-MASS COMPANION HD 984 B WITH THE GEMINI PLANET IMAGER

Johnson-Groh, M., [37 authors], **Rajan, A.**, [13 authors]

2017, *AJ*, 153, 190

1-2.4  $\mu\text{m}$  NEAR-IR SPECTRUM OF THE GIANT PLANET  $\beta$  PICTORIS b OBTAINED WITH THE GEMINI PLANET IMAGER

Chilcote, J., [46 authors], **Rajan, A.**, [16 authors]

2017, *AJ*, 153, 182

FIRST SCATTERED-LIGHT IMAGES OF THE GAS-RICH DEBRIS DISK AROUND 49 CETI

Choquet, É., [29 authors], **Rajan, A.**, [3 authors]

2017, *ApJL*, 834, L12

DYNAMICAL MASS MEASUREMENT OF THE YOUNG SPECTROSCOPIC BINARY V343 NORMAE AaAb RESOLVED WITH THE GEMINI PLANET IMAGER

Nielsen, E. L., [35 authors], **Rajan, A.**, [10 authors]

2016, *AJ*, 152, 175

IMAGING AN 80 AU RADIUS DUST RING AROUND THE F5V STAR HD 157587

Millar-Blanchaer, [42 authors], **Rajan, A.**, [12 authors]

2016, *AJ*, 152, 128

THE ORBIT AND TRANSIT PROSPECTS FOR  $\beta$  PICTORIS b CONSTRAINED WITH ONE MILLIARCSECOND ASTROMETRY

Wang, J. J., [39 authors], **Rajan, A.**, [13 authors]

2016, *AJ*, 152, 97

BRINGING “THE MOTH” TO LIGHT: A PLANET-SCULPTING SCENARIO FOR THE HD 61005 DEBRIS DISK

Esposito, T. M., [18 authors], **Rajan, A.**, [3 authors]

2016, *AJ*, 152, 85

DISCOVERY OF A SUBSTELLAR COMPANION TO THE NEARBY DEBRIS DISK HOST HR 2562

Konopacky, Q. M., [35 authors], **Rajan, A.**, [11 authors]

2016, *ApJL*, 829, L4

THE PECULIAR DEBRIS DISK OF HD 111520 AS RESOLVED BY THE GEMINI PLANET IMAGER

Draper, Z. H., [29 authors], **Rajan, A.**, [5 authors]

2016, *ApJ*, 826, 147

SPECTROSCOPIC CHARACTERIZATION OF HD 95086 b WITH THE GEMINI PLANET IMAGER

De Rosa, R. J., [7 authors], **Rajan, A.**, [27 authors]  
*2016, ApJ, 824, 121*

CONSTRAINTS ON THE ARCHITECTURE OF THE HD 95086 PLANETARY SYSTEM  
 WITH THE GEMINI PLANET IMAGER

Rameau, J., [20 authors], **Rajan, A.**, [12 authors]  
*2016, ApJL, 822, L29*

THE LEECH EXOPLANET IMAGING SURVEY: CHARACTERIZATION OF THE COLDEST  
 DIRECTLY IMAGED EXOPLANET, GJ 504 B, AND EVIDENCE FOR SUPERSTELLAR  
 METALLICITY

Skemer, A., [30 authors], **Rajan, A.**, [10 authors]  
*2016, ApJL, 817, 166*

FIRST IMAGES OF DEBRIS DISKS AROUND TWA 7, TWA 25, HD 35650, AND HD  
 377

Choquet, E., [6 authors], **Rajan, A.**, [10 authors]  
*2016, ApJL, 817, 2*

DISCOVERY AND SPECTROSCOPY OF THE YOUNG JOVIAN PLANET 51 ERI b WITH  
 THE GEMINI PLANET IMAGER

Macintosh, B., Graham, J. R., Barman, T., De Rosa, R. J., Konopacky, Q., Marley,  
 M. S., Marois, C., Nielsen, E. L., Pueyo, L., **Rajan, A.**, [72 authors]  
*2015, Sci, 350, 64*

FIRST SCATTERED-LIGHT IMAGE OF THE DEBRIS DISK AROUND HD 131835 WITH  
 THE GEMINI PLANET IMAGER

Hung, L. J., [7 authors], **Rajan, A.**, [28 authors]  
*2015, ApJL, 815, 14*

ASTROMETRIC CONFIRMATION AND PRELIMINARY ORBITAL PARAMETERS OF THE  
 YOUNG EXOPLANET 51 ERIDANI b WITH THE GEMINI PLANET IMAGER

De Rosa, R. J., [35 authors], **Rajan, A.**, [8 authors]  
*2015, ApJL, 814, 3*

GEMINI PLANET IMAGER OBSERVATIONS OF THE AU MICROSCOPII DEBRIS DISK:  
 ASYMMETRIES WITHIN ONE ARCSECOND

Wang, J. J., [34 authors], **Rajan, A.**, [9 authors]  
*2015, ApJL, 811, 19*

BETA PICTORIS' INNER DISK IN POLARIZED LIGHT AND NEW ORBITAL PARAME-  
 TERS FOR BETA PICTORIS B

Millar-Blanchaer, M. A., [41 authors], **Rajan, A.**, [14 authors]  
*2015 ApJ, 811, 18*

THE M-DWARFS IN MULTIPLES (MINMS) SURVEY - I. STELLAR MULTIPLICITY  
 AMONG LOW-MASS STARS WITHIN 15 PC

Ward-Duong, K.; Patience, J.; De Rosa, R. J.; Bulger, J.; **Rajan, A.**; Goodwin, S.  
 P.; Parker, Richard J.; McCarthy, D. W.; Kulesa, C.  
*2015, MNRAS, 449, 2618*

THE LEECH EXOPLANET IMAGING SURVEY. FURTHER CONSTRAINTS ON THE PLANET ARCHITECTURE OF THE HR 8799 SYSTEM  
A-L Maire, [30 authors], **Rajan, A.**, [7 authors]  
*2015, A&A, 576, 133*

TYPE IA SUPERNOVA RATE MEASUREMENTS TO REDSHIFT 2.5 FROM CANDELS: SEARCHING FOR PROMPT EXPLOSIONS IN THE EARLY UNIVERSE  
Rodney, S. A., [32 authors], **Rajan, A.**, [4 authors]  
*2014, ApJ, 148, 13*

FIVE DEBRIS DISKS NEWLY REVEALED IN SCATTERED LIGHT FROM THE HUBBLE SPACE TELESCOPE NICMOS ARCHIVE  
Soummer, R., [9 authors], **Rajan, A.**, [4 authors]  
*2014, ApJL, 786, 23*

SUB-MM OBSERVATIONS OF IRAS AND WISE DEBRIS DISK CANDIDATES  
Bulger, J., Hufford, T., Schneider, A., Patience, J., Song, I., De Rosa, R. J., **Rajan, A.**, Dowell, C. D., McCarthy, D., Kulesa, C.  
*2013, A&A, 556, 119*

HST/WFC3 OBSERVATIONS OF LOW-MASS GLOBULAR CLUSTERS AM 4 AND PALOMAR 13: PHYSICAL PROPERTIES AND IMPLICATIONS FOR MASS LOSS  
Hamren, K. M., Smith, G. H., Guhathakurta, P., Dolphin, A. E., Weisz, D. R., **Rajan, A.**, Grillmair, C. J.  
*2013 AJ, 146, 116*

A TYPE IA SUPERNOVA AT REDSHIFT 1.55 IN HUBBLE SPACE TELESCOPE INFRARED OBSERVATIONS FROM CANDELS  
Rodney, S., Reiss, A., [22 authors], **Rajan, A.**, Scarlata, C.  
*2012 ApJ, 746, 5*

ORBITAL MOTION OF HR 8799 B,C, D USING HUBBLE SPACE TELESCOPE DATA FROM 1998: CONSTRAINTS ON INCLINATION, ECCENTRICITY AND STABILITY  
Soummer, R., Brendan H.J., Pueyo, L., Thormann, A., **Rajan, A.**, Marois, C.  
*2011 ApJ, 741, 55*

CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY - THE HUBBLE SPACE TELESCOPE OBSERVATIONS, IMAGING DATA PRODUCTS AND MOSAICS  
Koekemoer, A.M., and the CANDELS team  
*2011 ApJS, 197, 36*

CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY Grogin, N.A., and the CANDELS team  
*2011 ApJS, 197, 35*

PARAMETERS AND PREDICTIONS FOR THE LONG-PERIOD TRANSITING PLANET HD 17156B  
Irwin, J., Charbonneau, D., Nutzman, P., Welsh, W.F., **Rajan, A.**, [6 authors]  
*2008 ApJ, 681, 636I*

**Data  
Handbook**

HUBBLE SPACE TELESCOPE WIDE FIELD CAMERA 3  
**Rajan, A.** WFC3 Team  
*Version 2.0, Space Telescope Science Institute*