

**滞在型研究員報告書**  
**Activity Report for the NAOJ Visiting Fellows Program**

所 属 (Institution)	Macquarie University & Australian Astronomical Observatory
氏 名 (Name)	Lee SPITLER
研究課題名 (Research subject)	High-redshift galaxy observations with infrared imaging
滞在期間 (Period of stay)	年 月 日～ 年 月 日 2016 06 06 2016 07 01
受入責任者氏名 (NAOJ host researcher)	Prof. Tadayuki KODAMA

1. 滞在型研究員として国立天文台滞在中に行った活動について簡単にお書きください。  
(Summarize your activities during the stay using the NAOJ Visiting Fellows Program.)

The main activities included:

- Being embedded in the day-to-day research activities in the NAOJ Division of Optical and Infrared Astronomy. This included attending weekly talks by visitors and NAOJ-based PhD students.
- Attended 1-day workshop with Prof. Tadayuki KODAMA's research group.
- Attended 2-day ULTIMATE-Subaru science workshop as Invited Speaker.
- Worked with Prof. Tadayuki KODAMA on the science plan for the SWIMS-18 pilot survey.
- Met with various NAOJ staff to discuss science and common interests.

2. 今回滞在型研究員として得られた成果について簡単にお書きください。  
(Summarize your research products from the stay.)

The main lasting outcome is a strengthening of Japanese-Australian research links through as demonstrated by the primary products from the stay:

- An initial plan for the science goals of the SWIMS-18 pilot survey when it is conducted from the Subaru telescope.
- Sharing of information about the ZFOURGE data products for use in preparing the technical design of the SWIMS-18 survey.
- Contribution to the ULTIMATE-Subaru science workshop as an Invited Speaker. Participated in the general discussion and to the possible science cases.
- Significant progress on a publication still in preparation about the evolution of high-redshift galaxy

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mass functions.

- A new potential collaboration with Dr. Masayuki TANAKA focused on pairing HSC/Subaru observations with my soon-to-be-commissioned Huntsman Telephoto Array.
- Establish collaborative links with Assoc. Prof. Kentaro MOTOHARA, which has led to my support of a JSPS Student Fellowship application to host one of his student at Macquarie University.
- Provided a ZFOURGE dataset to Dr. Mariko KUBO on the SA-22 field, a well-studied field by NAOJ astronomers. The ZFOURGE complements these past efforts and can lead to better redshift measurements.

3. この制度について何か御意見がありましたら、お書きください。

(Please provide any comments about this program.)

A very welcoming program that led to a very productive visit no doubt facilitated by staying at the accommodation on the inspiring NAOJ Mitaka campus.