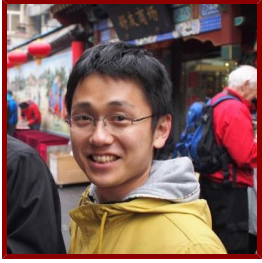


Stanford



Yousuke Utsumi

Phys Sci Res Assoc, Kavli Institute for Particle Astrophysics and Cosmology

Bio

BIO

Yousuke Utsumi works on integration and testing for the Large Synoptic Survey Telescope (LSST) camera which is the next generation US's astronomical camera as a physical science research scientist. He has been working on many kinds of astronomical topics through various instrumentation projects, especially focusing on wide field imaging. The Japan's widest astronomical camera for the largest-class telescopes, Hyper Suprime-Cam (HSC) of the Subaru telescope operated by National Astronomical Observatory of Japan, was his first professional experience. He was in charge of developing control software and conducting the camera commissioning. He also led a project to build a new astronomical observatory in Tibet with a 50cm telescope (Hiroshima University Operated Tibet Optical Robotic Imager; HinOTORI) under a collaboration with National Astronomical Observatories of China. He made its optical design, integration and verification of the whole system and investigation of logistics between Japan and China. He also took an important role to make negotiation with both governments. His scientific interest started from investigating activity of meteor storms by developing a forward scattering radar, but now expanded to investigate Cosmology through weak lensing technique, to explore distant galaxies, and to find new types of astronomical transients associated with gravitational wave or high energy neutrino.

He holds a PhD in Science from the Graduate University for Advanced Studies in Japan. His name in Japanese Kanji Character: ## ##

ACADEMIC APPOINTMENTS

- Phys Sci Res Assoc, Kavli Institute for Particle Astrophysics and Cosmology

LINKS

- My web page: <http://naoj.org/staff/yutsumi>
- HinOTORI: Tibet Observatory: <http://hinotori.hiroshima-u.ac.jp>
- Hyper Suprime-Cam: <http://hsc.mtk.nao.ac.jp>
- LSST @ SLAC: <https://lsst.slac.stanford.edu>
- lsst: <https://www.lsst.org>

Publications

PUBLICATIONS

- **A challenge to identify an optical counterpart of the gravitational wave event GW151226 with Hyper Suprime-Cam(dagger)** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Utsumi, Y., Tominaga, N., Tanaka, M., Morokuma, T., Yoshida, M., Asakura, Y., Finet, F., Furusawa, H., Kawabata, K. S., Liu, W., Matsubayashi, K., Moritani, Y., Motohara, et al
2018; 70 (1)

- **Optical and NIR Observations for Gravitational Wave Event GW170817**
Utsumi, Y.
AAPPS Bulletin. Korea.
2018 ; 28 (3): 31–33
- **J-GEM observations of an electromagnetic counterpart to the neutron star merger GW170817** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Utsumi, Y., Tanaka, M., Tominaga, N., Yoshida, M., Barway, S., Nagayama, T., Zenko, T., Aoki, K., Fujiyoshi, T., Furusawa, H., Kawabata, K. S., Koshida, S., Lee, et al
2017; 69 (6)
- **A WEAK LENSING VIEW OF THE DOWNSIZING OF STAR-FORMING GALAXIES** *ASTROPHYSICAL JOURNAL*
Utsumi, Y., Geller, M. J., Dell'Antonio, I. P., Kamata, Y., Kawanomoto, S., Koike, M., Komiyama, Y., Koshida, S., Mineo, S., Miyazaki, S., Sakurai, J., Tait, P. J., Terai, et al
2016; 833 (2)
- **REDUCING SYSTEMATIC ERROR IN WEAK LENSING CLUSTER SURVEYS** *ASTROPHYSICAL JOURNAL*
Utsumi, Y., Miyazaki, S., Geller, M. J., Dell'Antonio, I. P., Oguri, M., Kurtz, M. J., Hamana, T., Fabricant, D. G.
2014; 786 (2)
- **Hyper Suprime-Cam: the Control System**
Utsumi, Y., Kawanomoto, S., Tait, P., Jeschke, E., Furusawa, H., Kamata, Y., Koike, M., Komiyama, Y., Miyazaki, S., Morokuma, T., Nakata, F., Nakaya, H., Uraguchi, et al
SPIE-INT SOC OPTICAL ENGINEERING.2012
- **A LARGE NUMBER OF $z > 6$ GALAXIES AROUND A QSO AT $z = 6.43$: EVIDENCE FOR A PROTOCLUSTER?** *ASTROPHYSICAL JOURNAL*
Utsumi, Y., Goto, T., Kashikawa, N., Miyazaki, S., Komiyama, Y., Furusawa, H., Overzier, R.
2010; 721 (2): 1680-1688
- **Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A** *SCIENCE*
Aartsen, M. G., Ackermann, M., Adams, J., Aguilar, J. A., Ahlers, M., Ahrens, M., Al Samarai, I., Altmann, D., Andeen, K., Anderson, T., Anseau, I., Anton, G., Arguelles, et al
2018; 361 (6398): 146+
- **Subaru High- z Exploration of Low-luminosity Quasars (SHELLQs). IV. Discovery of 41 Quasars and Luminous Galaxies at $5.7 \leq z \leq 6.9$** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Matsuoka, Y., Iwasawa, K., Onoue, M., Kashikawa, N., Strauss, M. A., Lee, C., Imanishi, M., Nagao, T., Akiyama, M., Asami, N., Bosch, J., Furusawa, H., Goto, et al
2018; 237 (1)
- **Multiwavelength study of X-ray luminous clusters in the Hyper Suprime-Cam Subaru Strategic Program S16A field (vol 70, S22, 2018)** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Miyaoka, K., Okabe, N., Kitaguchi, T., Oguri, M., Fukazawa, Y., Mandelbaum, R., Medezinski, E., Babazaki, Y., Nishizawa, A. J., Hamana, T., Lin, Y., Akamatsu, H., Chiu, et al
2018; 70 (3)
- **The HectoMAP Cluster Survey. I. redMaPPer Clusters** *ASTROPHYSICAL JOURNAL*
Sohn, J., Geller, M. J., Rines, K. J., Hwang, H., Utsumi, Y., Diaferio, A.
2018; 856 (2)
- **The HectoMAP Cluster Survey. II. X-Ray Clusters** *ASTROPHYSICAL JOURNAL*
Sohn, J., Chon, G., Boehringer, H., Geller, M. J., Diaferio, A., Hwang, H., Utsumi, Y., Rines, K. J.
2018; 855 (2)
- **Subaru Hyper Suprime-Cam Survey for an optical counterpart of GW170817** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Tominaga, N., Tanaka, M., Morokuma, T., Utsumi, Y., Yamaguchi, M. S., Yasuda, N., Tanaka, M., Yoshida, M., Fujiyoshi, T., Furusawa, H., Kawabata, K. S., Lee, C., Motohara, et al
2018; 70 (2)
- **Hyper Suprime-Cam: Camera dewar design** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*

- Komiyama, Y., Obuchi, Y., Nakaya, H., Kamata, Y., Kawanomoto, S., Utsumi, Y., Miyazaki, S., Uraguchi, F., Furusawa, H., Morokuma, T., Uchida, T., Miyatake, H., Mineo, et al
2018; 70
- **The Hyper Suprime-Cam SSP Survey: Overview and survey design** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Aihara, H., Arimoto, N., Armstrong, R., Arnouts, S., Bahcall, N. A., Bickerton, S., Bosch, J., Bundy, K., Capak, P. L., Chan, J. H., Chiba, M., Coupon, J., Egami, et al
2018; 70
 - **Subaru High-z Exploration of Low-Luminosity Quasars (SHELLQs). II. Discovery of 32 quasars and luminous galaxies at $5.7 < z \leq 6.8$** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Matsuoka, Y., Onoue, M., Kashikawa, N., Iwasawa, K., Strauss, M. A., Nagao, T., Imanishi, M., Lee, C., Akiyama, M., Asami, N., Bosch, J., Foucaud, S., Furusawa, et al
2018; 70
 - **First data release of the Hyper Suprime-Cam Subaru Strategic Program** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Aihara, H., Armstrong, R., Bickerton, S., Bosch, J., Coupon, J., Furusawa, H., Hayashi, Y., Ikeda, H., Kamata, Y., Karoji, H., Kawanomoto, S., Koike, M., Komiyama, et al
2018; 70
 - **The on-site quality-assurance system for Hyper Suprime-Cam: OSQAH** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Furusawa, H., Koike, M., Takata, T., Okura, Y., Miyatake, H., Lupton, R. H., Bickerton, S., Price, P. A., Bosch, J., Yasuda, N., Mineo, S., Yamada, Y., Miyazaki, et al
2018; 70
 - **The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Mandelbaum, R., Miyatake, H., Hamana, T., Oguri, M., Simet, M., Armstrong, R., Bosch, J., Murata, R., Lanusse, F., Leauthaud, A., Coupon, J., More, S., Takada, et al
2018; 70
 - **Hyper Suprime-Cam: System design and verification of image quality** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Miyazaki, S., Komiyama, Y., Kawanomoto, S., Doi, Y., Furusawa, H., Hamana, T., Hayashi, Y., Ikeda, H., Kamata, Y., Karoji, H., Koike, M., Kurakami, T., Miyama, et al
2018; 70
 - **Two- and three-dimensional wide-field weak lensing mass maps from the Hyper Suprime-Cam Subaru Strategic Program S16A data** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Oguri, M., Miyazaki, S., Hikage, C., Mandelbaum, R., Utsumi, Y., Miyatake, H., Takada, M., Armstrong, R., Bosch, J., Komiyama, Y., Leauthaud, A., More, S., Nishizawa, et al
2018; 70
 - **Multiwavelength study of X-ray luminous clusters in the Hyper Suprime-Cam Subaru Strategic Program S16A field** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Miyaoaka, K., Okabe, N., Kitaguchi, T., Oguri, M., Fukazawa, Y., Mandelbaum, R., Medezinski, E., Babazaki, Y., Nishizawa, A. J., Hamana, T., Lin, Y., Akamatsu, H., Chiu, et al
2018; 70
 - **A large sample of shear-selected clusters from the Hyper Suprime-Cam Subaru Strategic Program S16A Wide field mass maps** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Miyazaki, S., Oguri, M., Hamana, T., Shirasaki, M., Koike, M., Komiyama, Y., Umetsu, K., Utsumi, Y., Okabe, N., More, S., Medezinski, E., Lin, Y., Miyatake, et al
2018; 70
 - **Kilonova from post-merger ejecta as an optical and near-Infrared counterpart of GW170817** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Tanaka, M., Utsumi, Y., Mazzali, P. A., Tominaga, N., Yoshida, M., Sekiguchi, Y., Morokuma, T., Motohara, K., Ohta, K., Kawabata, K. S., Abe, F., Aoki, K., Asakura, et al
2017; 69 (6)
 - **No Ly alpha emitters detected around a QSO at $z=6.4$: Suppressed by the QSO?** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Goto, T., Utsumi, Y., Kikuta, S., Miyazaki, S., Shiki, K., Hashimoto, T.

2017; 470 (1): L117–L121

- **CLUSTERING OF EXTREMELY RED OBJECTS IN THE SUBARU GTO 2DEG(2) FIELD** *JOURNAL OF THE KOREAN ASTRONOMICAL SOCIETY*
Shin, J., Shim, H., Hwang, H., Ko, J., Lee, J., Utsumi, Y., Hwang, N., Park, B.
2017; 50 (3): 61–70
- **J-GEM follow-up observations of the gravitational wave source GW151226** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Yoshida, M., Utsumi, Y., Tominaga, N., Morokuma, T., Tanaka, M., Asakura, Y., Matsubayashi, K., Ohta, K., Abe, F., Chimasu, S., Furusawa, H., Itoh, R., Itoh, et al
2017; 69 (1)
- **Ghost in the Subaru Prime Focus Camera**
Yagi, M., Utsumi, Y., Komiyama, Y., Lorente, N. P., Shortridge, K., Wayth, R.
ASTRONOMICAL SOC PACIFIC.2017: 651–54
- **GALAXY-SCALE GRAVITATIONAL LENS CANDIDATES FROM THE HYPER SUPRIME-CAM IMAGING SURVEY AND THE GALAXY AND MASS ASSEMBLY SPECTROSCOPIC SURVEY** *ASTROPHYSICAL JOURNAL*
Chan, J. H., Suyu, S. H., More, A., Oguri, M., Chiueh, T., Coupon, J., Hsieh, B., Komiyama, Y., Miyazaki, S., Murayama, H., Nishizawa, A. J., Price, P., Tait, et al
2016; 832 (2)
- **SUBARU HIGH-z EXPLORATION OF LOW-LUMINOSITY QUASARS (SHELLQs). I. DISCOVERY OF 15 QUASARS AND BRIGHT GALAXIES AT $5.7 < z < 6.9$** *ASTROPHYSICAL JOURNAL*
Matsuoka, Y., Onoue, M., Kashikawa, N., Iwasawa, K., Strauss, M. A., Nagao, T., Imanishi, M., Niida, M., Toba, Y., Akiyama, M., Asami, N., Bosch, J., Foucaud, et al
2016; 828 (1)
- **J-GEM follow-up observations to search for an optical counterpart of the first gravitational wave source GW150914** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Morokuma, T., Tanaka, M., Asakura, Y., Abe, F., Tristram, P. J., Utsumi, Y., Doi, M., Fujisawa, K., Itoh, R., Itoh, Y., Kawabata, K. S., Kawai, N., Kuroda, et al
2016; 68 (4)
- **A SPECTROSCOPICALLY CONFIRMED DOUBLE SOURCE PLANE LENS SYSTEM IN THE HYPER SUPRIME-CAM SUBARU STRATEGIC PROGRAM** *ASTROPHYSICAL JOURNAL LETTERS*
Tanaka, M., Wong, K. C., More, A., Dezuka, A., Egami, E., Oguri, M., Suyu, S. H., Sonnenfeld, A., Higuchi, R., Komiyama, Y., Miyazaki, S., Onoue, M., Oyamada, et al
2016; 826 (2)
- **Hyper-luminous dust-obscured galaxies discovered by the Hyper Suprime-Cam on Subaru and WISE** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Toba, Y., Nagao, T., Strauss, M. A., Aoki, K., Goto, T., Imanishi, M., Kawaguchi, T., Terashima, Y., Ueda, Y., Bosch, J., Bundy, K., Doi, Y., Inami, et al
2015; 67 (5)
- **A HYPER SUPRIME-CAM VIEW OF THE INTERACTING GALAXIES OF THE M81 GROUP** *ASTROPHYSICAL JOURNAL LETTERS*
Okamoto, S., Arimoto, N., Ferguson, A. N., Bernard, E. J., Irwin, M. J., Yamada, Y., Utsumi, Y.
2015; 809 (1)
- **PROPERTIES OF WEAK LENSING CLUSTERS DETECTED ON HYPER SUPRIME-CAM's 2.3 deg(2) FIELD** *ASTROPHYSICAL JOURNAL*
Miyazaki, S., Oguri, M., Hamana, T., Tanaka, M., Miller, L., Utsumi, Y., Komiyama, Y., Furusawa, H., Sakurai, J., Kawanomoto, S., Nakata, F., Uruguchi, F., Koike, et al
2015; 807 (1)