

# Suraphong Yuma

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**Nationality:** Thai

**Date and place of birth:** October 7, 1983; Bangkok, Thailand

## Education

D. Sc. (Physics and Astronomy), Kyoto University, Japan	Sept 2011
M. Sc. (Physics and Astronomy), Kyoto University, Japan	Sept 2008
B. Sc. (Physics; 1st class honor & Gold Medal), Chulalongkorn University, Thailand	Mar 2005

## Current Position

Project Researcher, The University of Tokyo, Japan	May 2012~
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## Research Interests

Galaxy Formation and Evolution; Galaxy Morphology; Galaxies at High Redshifts;  
Observational Cosmology

## Professional Experience

- Postdoctoral Researcher Oct 2011-Feb 2012  
(Department of Astronomy, Faculty of Science, Kyoto University)
- Teaching Assistant (Faculty of Science, Kyoto University) Oct 2008-Mar 2009  
Galaxy and interstellar physics course for undergraduate students
- Research Assistant Oct 2008-Mar 2009  
Under Global Centers of Excellence (GCOE) program
- Research Student Oct 2005-Sept 2006  
Supported by the Ministry of Education, Culture, Sports, Science and Technology  
(MEXT) of Japan

## Awards and Honors (since 2001)

- First Class Honor and Gold Medal Award July 2005  
Department of Physics, Faculty of Science, Chulalongkorn University, Thailand
- Excellent Science Student Award for graduate in science nationwide Aug 2005  
Prof. Dr. Tab Nilanidhi Foundation, Thailand
- Excellent Science Student Award for freshman in science nationwide Aug 2002  
Prof. Dr. Tab Nilanidhi Foundation, Thailand

## Scholarships

- Japanese Government (Monbukagakusho) Scholarship 2005-2011  
The Ministry of Education, Culture, Sports, Science and Technology of Japan
- DPST scholarship 2001-2005  
The Development and Promotion of Science and Technology Project (DPST) under the Royal Thai government

## Observing Experience

- **Near-Infrared** (with MOIRCS, FMOS, and IRCS): more than 10 nights at the Subaru Telescope, HI, USA
- **Radio**: 8 nights at 45m telescope, Nobeyama Radio Observatory, Japan

## Skills

**Languages:** Thai (Native), English,

Japanese (Japanese Language Proficiency Test Level N2)

**Programming Languages:** C, Perl, PDL (Perl Data Language), Python, and IDL (Interactive Data Language)

**Operating Systems:** Windows, Linux, and Mac OS X

## Refereed Journals

1. **S. Yuma**, K. Ohta, and K. Yabe, "*Intrinsic Shape of Star-Forming BzK Galaxies II: Rest-Frame UV and Optical Structures in GOODS-South and SXDS*", The Astrophysical Journal (ApJ), 761, pp. 19-41, 2012
2. D. Iono, B. Hatsukade, K. Kohno, R. Kawabe, S. Ikarashi, K. Ichikawa, T. Kodama, K. Motohara, T. Nakajima, K. Nakanishi, K. Ohta, K. Ota, T. Saito, K. Suzuki, K. Tadaki, Y. Tamura, J. Ueda, H. Umehata, K. Yabe, T. Yoshida, **S. Yuma**, N. Kuno, S. Takano, H. Iwashita, K. Handa, A. Higuchi, A. Hirota, S. Ishikawa, K. Kimura, J. Maekawa, H. Mikoshiba, C. Miyazawa, K. Miyazawa, K. Muraoka, H. Ogawa, S. Onodera, Y. Saito, T. Sakai, S. Takahashi, and M. S. Yun, "*Initial Results from Nobeyama Molecular Gas Observations of Distant Bright Galaxies*", Publication of the Astronomical Society of Japan (PASJ), Vol. 64, pp. (L2) 1-4, 2012
3. K. Yabe, K. Ohta, F. Iwamuro, **S. Yuma**, M. Akiyama, N. Tamura, M. Kimura, N. Takato, Y. Moritani, M. Sumiyoshi, T. Maihara, J. Silverman, G. Dalton, I. Lewis, D. Bonfield, H. Lee, E. C. Lake, E. Macaulay, and F. Clarke, "*NIR Spectroscopy of Star-Forming Galaxies at  $z \sim 1.4$  with Subaru/FMOS: The Mass-Metallicity Relation*", Publication of the Astronomical Society of Japan (PASJ), Vol. 64, No. 3, pp. (60) 1-19, 2012
4. **S. Yuma**, K. Ohta, K. Yabe, M. Kajisawa, and T. Ichikawa, "*Intrinsic Shape of Star-Forming BzK Galaxies at  $z \sim 2$  in GOODS-N*", The Astrophysical Journal (ApJ), 736, pp. 92-104, 2011
5. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, "*Stellar populations of Lyman-alpha Emitters at  $z = 4.86$ : A Comparison to  $z \sim 5$  LBGs*", The Astrophysical Journal (ApJ), 720, pp. 1016-1029, 2010
6. H. Kajino, K. Ohta, I. Iwata, K. Yabe, **S. Yuma**, M. Akiyama, N. Tamura, K. Aoki, and M. Sawicki, "*Lyman Break Galaxies at  $z \sim 5$ : Rest-Frame UV spectra. III*", The Astrophysical Journal (ApJ), 704, pp. 117-125, 2009

## Proceeding

7. **S. Yuma**, K. Ohta, K. Yabe, M. Kajisawa, and T. Ichikawa, "*Structure of Star-Forming Galaxies at  $z \sim 2$* ", NARIT Conference Series (NCS) Vol. 1 in press, 2012

## Invited Talks

8. **S. Yuma**, "*Intrinsic Structure of Star-Forming Galaxies at the Violent Epoch*", NARIT Stopover Astronomer Program, National Astronomical Research Institute of Thailand (NARIT), Chiang Mai, Thailand, March, 2012

## International Conferences

9. **S. Yuma**, K. Ohta, K. Yabe, M. Kajisawa, and T. Ichikawa, “*Structure of Star-Forming Galaxies at  $z \sim 2$* ”, 11th Asian-Pacific Regional IAU Meeting, Chiang Mai, Thailand, July 2011 (Poster with proceeding)
10. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “*Stellar populations of LAEs at  $z = 4.86$ : A Comparison to LBGs*”, XXVth IAP Annual Colloquium: The Lyman Alpha Universe, Paris, France, July 2009 (Poster)
11. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “*Stellar populations of Lyman Alpha Emitters at  $z = 4.86$ : A Comparison to LBGs*”, Joint Subaru/Gemini Science Conference, Kyoto, Japan, May 2009 (Poster)
12. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “*Stellar populations of LAEs at  $z = 4.8$* ”, Understanding Lyman Alpha Emitters International Conference, Heidelberg, Germany, October 2008 (Poster)

## Domestic Conferences (Japan)

13. **S. Yuma**, K. Ohta, and K. Yabe, “*Bar-Like/Oval Shape of sBzK Galaxies at  $z \sim 2$  in Rest-Frame UV and Optical Wavelengths*”, Astronomical Society of Japan (ASJ) Annual Meeting, Oita, Japan, September, 2012 (Oral)
14. **S. Yuma**, K. Ohta, and K. Yabe, “*Intrinsic Structure of Star-Forming BzK Galaxies*”, GCOE Symposium, Kyoto Japan, February 2012 (Poster)
15. **S. Yuma** and K. Ohta, “*Confirming A Bar-Like Shape of sBzK Galaxies*”, Annual meeting (Fall) of Astronomical Society of Japan, Kagoshima, Japan, September 2011 (Oral)
16. **S. Yuma** and K. Ohta, “*Internal Structure of Galaxies at  $z \sim 3$  with AO*”, Subaru Telescope Next Generation AO Workshop, Osaka, Japan, September 2011 (Oral)
17. **S. Yuma**, K. Ohta, K. Yabe, T. Ichikawa, M. Kajisawa, “*Structure of sBzKs in GOODS-N*”, Annual meeting (Fall) of Astronomical Society of Japan, Kanazawa, Japan, September 2010 (Oral)
18. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “*Stellar populations of Lyman-alpha Emitters at  $z = 4.86$ : A Comparison to  $z \sim 5$  LBGs*”, Annual meeting (Spring) of Astronomical Society of Japan, Hiroshima, Japan, March 2010 (Oral)
19. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “*Stellar populations of Lyman Alpha Emitters at  $z = 4.86$ : A Comparison to  $z \sim 5$  LBGs*”, Subaru Users Meeting 2010, Tokyo, Japan, January 2010 (Poster)

20. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “ *Stellar populations of Lyman Alpha Emitters at  $z \sim 4.8$*  ”, GCOE symposium, Kyoto Japan, February 2009 (Poster)
21. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “ *Stellar populations of Lyman Alpha Emitters at  $z = 4.86$*  ”, Annual meeting (Fall) of Astronomical Society of Japan, Okayama, Japan, September 2008 (Oral)
22. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “ *Preliminary Results of Stellar populations of Lyman-alpha Emitters at  $z = 4.8$*  ”, The Forefront of Galaxy Formation Research: Visions of Young Researchers, Tokyo, Japan, February 2008 (Oral)
23. **S. Yuma**, K. Ohta, K. Yabe, K. Shimasaku, M. Yoshida, M. Ouchi, I. Iwata, and M. Sawicki, “ *Preliminary Results of Stellar populations of Lyman-alpha Emitters at  $z = 4.8$*  ”, Subaru Users Meeting 2008, Tokyo, Japan, January 2008 (Poster)
24. **S. Yuma**, “ *Lyman Alpha Emitters at various redshifts* ”, Summer School for Young Astronomers, Nara, Japan, July 2007 (Oral)