

Annual Report

2015



MISTI participant Krithika Swaminathan with Prof. Nakamura and the junior professional gymnasts who helped collect data for motion capture experiments.



2015

**FUTI Award** 

Yuki Haba at a party celebrating the

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UTSIP-Kashiwa participant Masahiro Nakanishi in front of a Kabuki display at the National Theater.

# **FUTI** Organization

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Distinguished Research Fellow, Princeton Plasma Physics Laboratory

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### Masako Osako

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### Nobuko Sakurai

Advisor,

Lotus Circle Asia Foundation

#### Masaaki Yamada

Distinguished Research Fellow, Princeton Plasma Physics Laboratory

# Message from the FUTI President



Friends of UTokyo, Inc. (FUTI\*) was established in the fall of 2007 to help the University of Tokyo's globalization efforts and educational/cultural exchange with the United States. We strive to fulfill this mission by supporting students from the University of Tokyo and from universities in the U.S. who participate in educational exchanges and research collaborations. FUTI became a non-profit

organization in 2008 under the state of New York. For more details please visit our website, friendsofutokyo.org. I welcome the continued warm support to help and guide young students such as those listed in this annual report, who have so much potential to becoming the leaders of tomorrow.

Since 2011 FUTI has grown a great deal, and in recent years FUTI has been able to give summer scholarship to around 20 accomplished students a year, gaining recognition among UTokyo and U.S. university students as well. In the last three or four years, we have been giving scholarships to help in research exchanges focused on physics at universities such as University of California, Berkeley and Columbia University. Until 2015 the FUTI awards have been primarily for summer scholarships, but starting in 2016 there will be a new scholarship called the Ito Foundation U.S.A.-FUTI Scholarship which will help several undergraduate and graduate UTokyo students to attend a U.S. university for one or typically more than two semesters. In the future we wish to expand our support to not only UTokyo students but to U.S. university students to take a leap into the world and contribute to the international society.

friendsofutokyo.org/2015excerpt



Read excerpts from reports written by 2015 summer scholarship recipients

Read about the Ito Foundation U.S.A. - FUTI Scholarship



friendsofutokyo.org/itofuti

\* The original name, Friends of Todai, Inc. (FOTI) has been changed in May of 2014 to Friends of UTokyo, Inc. (FUTI) in accordance with the University of Tokyo's decision to update their abbreviated English name from Todai to UTokyo. The funds for FUTI are solely from the donations of UTokyo alumni and friends (those who are not alumni but have shown interest), and corporations (currently the American subsidiary of Shin-Etsu Chemical: Shintech, Inc., and the Ito Foundation U.S.A.). All board members, advisory committee members, and scholarship committee members serve without monetary compensation.

# Report on FUTI Summer Scholarship Programs



humanities or social science majors.

As reported in Newsletter Nos. 13 and 14, nine UTokyo students and 11 U.S. students received the 2015 FUTI Global Leadership Awards (FUTI-GLA). The award program is designed to nurture future global leaders of Japan and the U.S. One of the selection criteria is a demonstration of leadership quality.

Five out of the selected nine UTokyo students participated in various summer programs at U.S. universities such as University of California, Berkeley, Harvard University, University of Michigan, Princeton University, and Stanford University; three attended English language courses at Yale University, Columbia University, and U.C. Berkeley; and one participated in the Global Summer Program (GSP) at Yale. Six were science or engineering majors, while three were

Seven out of the 11 U.S. awardees conducted research as summer interns at UTokyo's laboratories. Five of these recipients participated in the University of Tokyo Research Internship Program (UTRIP), which was hosted by professors in the School of Sciences at UTokyo. Two participated in the University of Tokyo Summer Internship Program in Kashiwa (UTSIP-Kashiwa) hosted by the Graduate School of Frontier Sciences. In addition, two MIT students took internships at UTokyo engineering laboratories. The selection process for FUTI awards was

highly competitive. For instance, the five UTRIP participants had been selected from over 40 U.S. undergraduates, many of whom were top students from leading universities in the U.S. In addition to these internship students, two Yale students were selected to participate in the Global Summer Program (GSP) courses offered by UTokyo. FUTI also awarded travel scholarships to two high school students from California and Oregon who started the PEAK program at UTokyo in October 2015.

The UTokyo students who spent the summer in the U.S. unanimously commented, "We learned a great deal inside and outside the classroom. The summer experience helped us expand our intellectual horizon regarding both the world and Japan, and gave us opportunities to rethink our career plans." Many of them further said that "classroom and lab

FUTI Scholarship Committee Chair, Shigenori Matsushita (center) with FUTI award recipients. From left: Kenneth Wu, Susanna Elledge, Yuka Esashi, and Hsu (Indy) Liu.

works were intensive" and "were able to establish close friendship with students coming from many countries." The students from U.S. universities invariably reported that they gained valuable research skills and experience at UTokyo. Many expressed their desire to go back to Japan because of their positive impression of the Japanese culture and society.

We sincerely hope that these U.S. and UTokyo students grow into global leaders and make important contributions to the future of the world. We would like to take this opportunity to thank the professors and staff at UTokyo and U.S. universities for their contribution to the programs. We are also grateful to the individual donors in the U.S. and Japan whose generous donations to FUTI made our scholarship programs possible.

The roster of 2015 award recipients with their portraits, schools, majors and the summer programs they attended are shown in the next pages (pp.3-4). Their "reports from the scenes" can be found on the FUTI Facebook page (see link on next page), and their full reports on the FUTI website, www.friendsofutokyo.org

# Roster of FUTI Global Leadership Award Recipients

# University of Tokyo Students



Natsuki Furukawa

University of Tokyo, Junior Pharmacology

Harvard Summer School



Yuki Haba

University of Tokyo, Master 1st Year Arts and Sciences

Columbia University Language Course



Sayumi Miyano

University of Tokyo, Senior Law and Political Science

University of Michigan, Inter-university Consortium for Political and Social Research (ICPSR)



Hiroya Sato

University of Tokyo, Sophomore Economics

GSP at Yale University "Moral Foundations of Politics"

### Students from U.S. Universities



Susanna Elledge

University of California, Berkeley, Junior Chemistry, Chemical Biology

UTRIP Internship Prof. Takeaki Ozawa, Chemistry, UTokyo



Elbegduuren Erdenee

Princeton University, Sophomore Molecular Biology/Neuroscience

UTRIP Internship Prof. Takeaki Ozawa, Chemistry, UTokyo



Hsu (Indy) Liu

Reed College, Junior Physics

UTRIP Internship Prof. Hirofumi Sakai, Physics, UTokyo



Claudia See

Yale University, Sophomore Biomedical Engineering

GSP at UTokyo, "Nanoscience"



Kyle Smith

Summit High School, Oregon

University of Tokyo Programs in English at Komaba



Maki Tohmon

Pomona College, Sophomore Biology

UTokyo Summer Internship Program (UTSIP)



Kenneth Wu

U.C. Berkeley, Sophomore Molecular Toxicology

UTRIP Internship Prof. Shu Kobayashi, Chemistry, UTokyo Note: Affiliation, major, and year at school are as of the time of application.

# University of Tokyo Students



Tokuyou Li

University of Tokyo, Sophomore Science I

U.C. Berkeley Summer Sessions (Regular courses)



Takato Masuda

University of Tokyo School of Law Juris Doctor Program 2nd Year

Yale English Language Institute "English for Law"



Haruaki Tamura

University of Tokyo, Master 1st Year Information Technology Management

U.C. Berkeley "Summer English Language Studies"

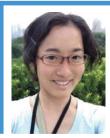


Daichi Tsuna

University of Tokyo, Sophomore Science II

Stanford Summer International Honors Program, Stanford University

### Students from U.S. Universities



Yuka Esashi

Reed College, Sophomore Physics

UTRIP Internship Prof. Kazuki Koketsu, Earth and Planetary Science, UTokyo



Qiaochu Li

Massachusetts Institute of Technology Ph.D. Program 1st Year Material Science and Engineering

Internship with Prof. Takuzo Aida Chemistry and Biotechnology, UTokyo



Masahiro Nakanishi

Brown University, Sophomore Science, Applied Math and Economics

UTokyo Summer Internship Program (UTSIP)



Krithika Swaminathan

Massachusetts Institute of Technology Sophomore Mechanical Engineering

Internship with Prof. Yoshihiko Nakamura, Mechano-Informatics, UTokyo



Carolyn Zhang

Yale University, Sophomore Electrical Engineering

GSP at UTokyo, "Nanoscience"



Alexander Taniguchi (Wiegman)

Modesto High School, California

University of Tokyo Programs in English at Komaba



Visit the FUTI Facebook page

facebook.com/
friendsofutokyo



### FUTI Research Grants to the Columbia-UTokyo Team and

The Award Selection Committee of FUTI has continued their support of Columbia-UTokyo's joint curricular development and student exchanges in the area of condensed matter physics. The committee also decided to renew the research grant for UC Berkeley and UTokyo's research on "physics and mathematics for the universe," specifically their exchange program of graduate students and their outreach program for the general public.

# Frontiers of Condensed Matter Physics (F-CMP): Columbia-UTokyo cooperation on education and research

Organized by Prof. Yasutomo Uemura of Columbia University, the Columbia-UTokyo educational collaboration on condensed matter physics has been carried out over the past several years with partial support from FUTI, generating important scientific results.

In Fiscal Year 2014-2015, Columbia-UTokyo continued their joint teaching activities, for the fourth year in a series of the F-CMP (Frontier of Condensed Matter Physics) course, as well as their active research collaboration between graduate students of both institutions. In this fiscal year, two activities were organized using Japanese research facilities: KEK Photon Factory and the laser facility of the Institute of Solid State Physics (ISSP) located at the UTokyo Kashiwa Campus. This year, Prof. Hiroshi Kageyama and his student Mr. Yasumasa Nozaki of Kyoto University were invited to Columbia. Based on this collaboration, one of the students at U. Tokyo, Mr. H. Suzuki recently published his work in Phys. Rev. B, Rapid Communications, which was selected as the Editor's Suggestion. Dr. Suzuki graduated with PhD in 2015, thanks to his international collaboration work.

Organized by the Prof. Uemura, the FCMP Workshop in 2015 was held in Vancouver, Canada during May 16-22, participated by many world's leading CMP physicists. In the 2015 FCMP Workshop, a new attempt was made to provide hands-on training to participating graduate students by utilizing the local facility. The FUTI fund was used to support some of the travel funds for the graduate students.

For 2015-16 period, to increase involvements of Tokyo University students in the FCMP course activities, a new seminar course is planned at the Kashiwa Campus, thanks to the cooperation of Prof. Takasada Shibauchi. The Kashiwa campus has a newly built Graduate School of Frontiers of Science (Shin-Ryouiki Sousei-Kagaku Kenkyuu Ka) as well as the Institute of Solid State Physics (Bussei Kenkyusho). We expect many motivated graduate students and post-docs in these branches of Tokyo University to participate in the seminar activities. It is also planned to have 2016 FCMP Workshop in Rio de Janeiro of Brazil, pending on approval of a fund requested by Prof. Uemura to the US National Science Foundation.



# Berkeley's BCTP-UTokyo's Kavli IPMU Renewed for 2015-16

# Collaboration, Exchanges and Outreach at the Kavli IPMU-Berkeley Campuses

The collaboration between the Kavli IPMU at UTokyo and the Berkeley Center of Theoretical Physics (BCTP) at UC Berkeley has a unique environment where mathematicians, astronomers, and physicists work together. Having both research and cultural exposure has been proven to be crucial for the development of the careers of young researchers in the global scientific community. This has been particularly important for the UTokyo graduate students and the collaboration should also boost the international visibility of the University of Tokyo.

In FY2014-2015, three Berkeley students visited the Kavli IPMU for a month. Brian Hennings helped Prof. Murayama teach the course from Japan, titled "From the Big Bang to Dark Energy," for the second year. It attracted approximately 25,000 registrations worldwide. Mr. B. Hennings acted as the Teaching Assistant for this course, ran the discussion forum, and wrote homework problems for automated grading by the server. He helped boost the international visibility of the University of Tokyo as well as its close relationship with UC Berkeley. Mr. C. Chiang, a new Berkeley student, visited Kavli-IPMU to take over this role after Brian Hennings graduates with his Ph.D. degree. The FUTI fund also supported local expenses for one Kavli IPMU student for a semester in Berkeley. Prof. Murayama gave a successful public lecture at Fermi National Laboratory in Illinois, which drew nearly 1,000 people. In addition, he was invited to speak at the United Nation Headquarters in New York on how basic scientific research promotes peace in the world. www.ipmu.jp/node/2049

Having learned that longer stays make exchanges more meaningful and productive, Prof. Murayama plans to follow the same approach this year. As for the research objectives, the common interests between Berkeley and Kavli IPMU students are in four major areas: Higgs and new physics searches at the LHC (Large Hadron Collider), large scale structure and dark energy studies in large astronomical surveys, dark matter searches in underground experiments, and building unified theory and new mathematics based on the string theory. They try to match up visiting students with local researchers in the similar interest areas, and guide them to attend relevant seminars and lectures.

This year, there is a plan to send Kavli-IPMU student Masataka Watanabe to spend a semester in Berkeley. He is a student of an American professor Simeon Hellerman at Kavli IPMU who is working on string theory. He is already well-experienced with discussions in English. Prof. Murayama will continue to speak for the values of basic science in public outreach as well as to policymakers.

# Ito Foundation U.S.A.-FUTI Scholarship Launched

A new scholarship named "Ito Foundation U.S.A.-FUTI Scholarship" has been launched and scheduled to be awarded for the 2016 fall semester. This new scholarship will triple FUTI's total scholarship amount and will be awarded primarily to several UTokyo undergraduate and graduate students expecting to study at universities in the U.S. for more than a semester, typically more than two semesters. Some U.S. university students wishing to study in UTokyo will also be considered.

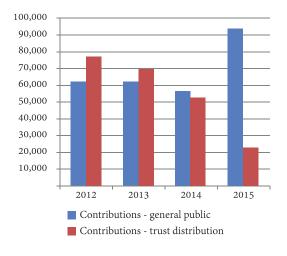
The Ito Scholarship Foundation (Japan) and Ito Foundation U.S.A. were established and headed by Mr. Masatoshi Ito, the honorary Chairman of the retailing giant, Seven & I Holdings Co. Ltd in Japan. The Ito Scholarship Foundation was established in 1994 and has been awarding scholarships extensively in Japan. FUTI shall be responsible for operation and management of this scholarship program.

These scholarships are aimed at UTokyo students in all academic fields who either would like to study in the U.S.A. for one or two semesters but would like to earn degrees from UTokyo, or would like to earn degrees from a university in the U.S.

FUTI expects that this new scholarship will expand FUTI's role in contributing to the two countries, their societies, their universities and promising students.

### Fundraising Results of FY 2014-2015, and Revenue and Expenses

The annual fundraising campaign in FY 2014/15 (July 1, 2014 – June 30, 2015) concluded with a total revenue of approximately \$116,000. This result did not significantly reverse the continuing downward trend of contribution revenues in recent years with \$139,000, \$131,000, and \$110,000 in FY 2011/12, FY 2012/13, and FY 2013/14, respectively (see figure below). New measures must be taken to persuade more alumni and friends to join us in helping our younger generation to gain global experience and prepare for the increasingly competitive global economy and complex world politics.



The reduction of revenue was caused by the decline of trust fund earnings and by the reduced contribution from the general public (mostly alumni). The number of individual donors has decreased to 52 this year, in comparison to 73 two years ago and 59 last year.

In the midst of these challenges however we did receive delightful news. Two generous individual donors granted us \$30,000 and \$20,000. Thanks to the two donations, we were able to maintain a revenue level equivalent to that of last year.

"Over the past several years, we have made great strides to nurture our scholarship programs. UTokyo would deeply appreciate your support of FUTI, which enables us to send many highly qualified students into the global community. We are sincerely thankful to Shintech Inc. for agreeing to extend the Trust agreement for the next five

### Summary of Financial Statement FY 2014-2015

Fixed Assets	332	Fixed Liabilities	(
Laptop PC (Undepreciated portion)	332		
Liquid Assets	191,147	Liquid Liabilities	
Checking & Savings Accounts	191,147		
Prepaid Asset	0	Total Liabilities	(
Undetermined Loss	0	Unrestricted Net Assets	191,47
Total Assets	191,479	Total Unrestricted Net Assets and Liabilities	191,479
ofit and Loss Statement (Unit: US Dollar)			
Expenditures	100,283	Revenue	116,88
Grants (Research Grants, Awards)	85,750	Donations	116,47
Operating Expenses	14,543	Event Income	130
Reversal of Undetermined Loss	-10	Interest Income	28
Increase in Net Assets	16,604		
T . 1	174,875		
Total Asset at Start of FY 2014-2015	1/4,0/3		

years. We greatly appreciate many loyal donors who continue to support our activities. We also cannot emphasize enough the positive impact that the large donations from the two individuals had on FUTI. Their benevolence allowed us to avoid a revenue crisis. Without such generous donations, FUTI would have had to scale back our programs significantly," remarked President Masaaki Yamada.

We spent \$85,750 on the summer scholarships and research grants this year, which was a decrease of \$6,200 (6.7%) from \$91,950 of last year. the amount of \$6,200 includes \$4000 which was not given out due to the award recipient not being able to obtain a visa in time for the summer study. With the operating expenses of \$14,543, the total expenses amounted to \$100,283, slightly lower than \$108,122 of FY2013-2014. The operating profit (that is Increase in net Assets) of FY 2014-2015 was \$16,604.

### FUTI Lecture Series

FUTI started a lecture series in 2014-15. The objective of the FUTI Lecture Series is to provide UTokyo alumni and others with an opportunity to explore, challenge and debate salient issues with visiting UTokyo scholars and distinguished alumni in an informal setting. The events take place generally 4 times a year in a mid-Manhattan location.

Lecture Theme	Lecturer and Affiliation	Date	Supporting Organizations
On Ebola Hemorrhagic Fever	Yuichiro Kuwama, MD (Medical Director, the Japanese Medical Practice, Division of Mount Sinai Beth Israel and Vice President, FUTI)	Nov. 14, 2014	New York Ichokai Satsuki-kai America
From Free World to Rivalry: Power and Competition in World Affairs: The Middle East, Russia and China	Prof. Kiichi Fujiwara, Graduate Schools for Law and Politics, Policy Alternative Research Institute, UTokyo	May 20, 2015	New York Ichokai Satsuki-kai America
The Gifts of the Ocean and Its Future	Prof. Ken Furuya (Director and Executive Vice President of U Tokyo, a Professor in the Graduate School of Agricultural and Life Sciences, and Director of FUTI)	Sept. 19, 2015	New York Ichokai Satsuki-kai America
Challenges of Abenomics Stage II	Prof. Takatoshi Ito (Columbia University, School of International Public Affairs, and National Graduate Institute for Policy Studies)	Oct. 29, 2015	Satsuki-kai America





# FY 2014 - 2015 List of Donors

CORPORATION	Shunichiro Kishioka \$1000	Friends (\$250-\$499)	Names only (in alphabetical order)
<b>Sponsor</b> (\$10,000 - \$24,999)	Chiaki Kusuhara	Ruth Jin	Tetsunosuke Fujisaki
Shintech Inc.† \$21,634	\$1,000 Iwao Ojima	\$250 Kenichiro Yamada	Koichi Hamada
†Dividend income from a	\$1,000	\$250	Yoshio Hiramoto
\$5 million trust fund created for the benefit of FUTI.	Kennichi Sugiyama \$1,000	Masako Yamada \$250	Sakae Igarashi
INDIVIDUALS	Kazuhiro Takeuchi	Tsutomu Yoshida	Kenji Kasahara
Benefactor	\$1,000	\$250	Hyun Yong Kim
(\$25,000 or more)	Fumiko Tamura \$1,000	Anonymous \$250	Shigeru Mori
Anonymous \$30,000	Shunpei Yamazaki	Donations under \$250	Thong Nguyen
Donor	\$1,000	Jotaro Hamada	Kyota Omori
(\$1,000-\$9,999)	Anonymous \$1,000	\$200	Junji Takegami
Hisashi & Masae Kobayashi \$5,000	Anonymous	Keiichiro Hayashi \$200	Yosuke Tanigawa
Shigenori & Sumie Matsushita	\$1,000	Anonymous	Mami Terai
\$5,000	Anonymous* \$1,000	\$200	
Yuichiro & Chika Kuwama	+ - /	Anonymous	
\$2,500	Supporting Member (\$500-\$999)	\$200	
Yasuo Okamoto	(10)	Jung-Kook Hong	
\$2,500	Geeta Mehta \$500	\$100	
Motoatsu & Nobuko Sakurai		Yoshiyuki Kawashima	
\$2,500	Hiroshi Suehiro \$500	\$100	
Sumiko Ito*		Anonymous	
\$2,000	Ko-Yung Tung \$500	\$100	
Hirokazu Miura		Anonymous	
\$2,000	Yasuhide Watanabe \$500	\$100	
Masako Osako		Anonymous	
\$1,500	Yoichi Yoshida \$500	\$20	
M 1.: W 1.			

Total: 3 corporations\*\*, 52 individuals; \$116,472\*

Masaaki Yamada

Haruo Kawahara

\$1,500

\$1,000

<sup>\*</sup> Total including matching gift

<sup>\*\*</sup> Matching gift from State Street Bank Foundation, and White and Case LLP.