

**Prof. Olivier FOURMAUX - Sorbonne University - Lip6 lab**

**2026 - Invitation by Dr. CHENEVIER - support Oka-Dai Budget**

Invited researcher @ Okayama University

**Objectives:: SU - Oka-Dai interactions - Computer systems / Informatics**

- Students / Faculty / Staff mobilities in both ways (including ERASMUS with Sorbonne from 2028)
- Summer School at Sorbonne
- Future perspectives of joint Ph-D
- Various initiatives of HORIZON EUROPE research projects and other supports // NOGAMI suggestion
- Yearly Invitation of a SU Faculty (10 days) @ Computer System Dpt of Okayama University

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## Previously

**1 - Monday - December 12 - 2022**

**Pr. Olivier FOURMAUX - Sorbonne University - Paris**

**Head of the "Informatics" Master Course LIP6 laboratory (CNRS and Sorbonne University)**

**@Okayama University - ----Room: 岡山大学創立五十周年記念館 ----- 50th Anniversary Hall- 2nd FL.**

**<https://lip6.fr/Olivier.Fourmaux/>**

**2 - Friday-January-24th-2025**

**Visit O. FOURMAUX et Evridis BAMPIS - "Computer Systems Dept - Sorbonne University"--- OKAYAMA University -**

olivier.fourmaux@gmail.com, olivier.fourmaux@lip6.fr

evripidis.bampis@lip6.fr

*Preliminary Program of the 3rd visit (as for Wednesday-May-27th)*

## Arrival Okayama - Thursday-28th of May in the afternoon

**Meeting point: Okayama University Tsushima Campus, Honbu bld. 1F URA office**

**14:15 Bernard and Emi**

14:30-15:00 @Tsushima Campus Honbu Building. 5F, Prof. ABE's office

**Meeting Pr. ABE Masanobu and Pr. NOGAMI Yasuyuki**

Executive Director for Digital Transformation and Green Transformation  
Senior Vice President

16:00-17:00 Tsushima Campus@L-Cafe

Visit to Cafe Francais

## Friday-29th @Okayama University Tsushima Campus, Kibinove Building

9:00-12:00

**Meeting with Pr. ISHINO Hirokazu and Pr. SUZUKI Takayoshi**

Computer - Sc. Lectures - i-ELST

14:00 - 16:00

**Meeting Pr. Norikazu TAKAHASHI**

Program details

## Sat-30th

**Cross-Cultural Exchange Program - 1 --- Study, Observation and Excursion --**

Pr. FUJIMOTO Masumi and GDP and International students

\*\*\* Fukiya @Takahashi city

<https://www.okayama-japan.jp/en/spot/10745>

## Sun-31<sup>st</sup>

**Cross-Cultural Exchange Program -2 --- Study, Observation and Excursion --**

Pr. FUJIMOTO Masumi and GDP and International students  
\*\*\* Bitchū Matsuyama Castle@Takahashi city  
<https://www.bitchumatsuyamacastle.jp/en/>

## Mon-June-1st @Okayama University, Tsushima Campus, Kibinove Building

14:00 - 16:00

Meeting Pr. Norikazu TAKAHASHI,

Hiroyuki NAKAGAWA - autonomous systems, self-adapted systems,

Takahiro OKABE - Grad.: Univ. of HYOGO -- image processing

\*\* To contact within 2 weeks for **new Research Internship topics**

\*\* .....

\*\* EXPLORATION FRANCE from the French Embassy in Tokyo

Dead-Line: 30th Dec

## Tues-June-2nd @Okayama University, Tsushima Campus, Kibinove Building

10:00 - 12:00 TAKAHASHI, GOTOH Yusuke, FUKUSHIMA, MIURA, .....

**Talk by Pr. O. FOURMAUX**

**Title: " Internet Measurements "**

**Abstract ---**

The Internet is opaque by nature: paths between networks are not exposed and must be actively discovered.

The classical **Traceroute** tool exploits the TTL field to reveal routers hop by hop, but it performs poorly in load-balanced networks - a limitation addressed by Paris Traceroute (LIP6, 2006).

Reconstructing the true topology then requires alias resolution to group the multiple interfaces of a single router. At scale, IPRS performs 4 IPv4 surveys/day; BGP collectors (RouteViews, RIPE RIS) complement this with a real-time view of prefix announcements, useful for detecting hijacks.

The main open challenge is the temporal gap between the speed of routing changes (seconds) and survey frequency (days), and this is our challenge.

**\*\* Participation of Oka-Dai in a Internet World Experimental Platform**

- Oka-Dai only in Japan

Experimental Platforms for instance TESTBED of INTERNET control

Benefit -

International visibility

Integration improvement

14:00 - 16:00

**Meeting - Development of Students Mobilities (both ways)**

Local financial support

ERASMUS from January-2028

HOSTS at LiP6 - Sorbonne

Mobilities from Oka-Dai ??? How many ??

HOSTS at "computer systems" dept. - Okayama

New HOSTS:

HOST-1 - NAKAGAWA

HOST-2 - OKABE

HOST-3 - FUKUSHIMA

HOST-4 - MIURA

HOST-5 - GOTOH Yusuke

**Wed-June-3st ----- Break**

**Thu (木) -June-4st @Okayama University, Tsushima Campus,  
Kibinove Building**

10:00 - 12:00

**Meeting - Development of Students / Staff Mobilities (both ways)**

NOGAMI, TAKEUCHI, KODERA, ....MORI, FUKUSHIMA, MIURA

\*\* Joint Ph-D - Perspectives

**\*\* KITADAI Yuto go to SU on next September-2026 -**

Discussion with Pr. FOURMAUX from 14:00 today

HOST at SU for 6 months

14:00 - 16:00

**Meeting - Development of Joint Research (HORIZON EUROPE, others)**

TAKAHASHI Norikazu, NOGAMI, TAKEUCHI, KODERA, ....MORI, WATANABE Minoru

1 - EXPLORATION FRANCE from the French Embassy in Tokyo

KODERA, other young Oka-Dai

Initiate a Consortium with French Partners (up to 3 or 4)

SU-Lip6 / POLYTECH (up to 3 or 4)

2 - EXPLORATION JAPON from the French Embassy in Tokyo

Initiate a Consortium with Japan Partners (up to 3 or 4)

3 - NOGAMI sensei research project including mobilities (ERASMUS and others)

4 - JSPS P-Doc - SU candidate - TO Oka-Dai

Yoshida san in a company presently - Wishes to come back to Academic (NOGAMI group) as Ph-D student.

4' - KAKENHI international

5 - Yearly Invitation program (10 Days): SU Faculty supported by Oka-Dai

**Fri (金) - June-5th @Okayama University, Tsushima Campus, Kibinove Bldg**

10:00 - 12:00

**Debriefing-I - Drafting a WorkPlan as a follow-up of Pr. FOURMAUX meetings**

14:00 - 16:00

**Debriefing-II - Drafting a WorkPlan as a follow-up of Pr. FOURMAUX meetings**

**Sat (土) -6th / Sun (日) -7th**

6th - SHIKOKU Excursion from Onomichi to Imabari (bicycle)

7th - Free

**Mon-June-8th @Okayama University, Tsushima Campus, Kibinove Bldg**

10:00 - 12:00

**Technical Meeting - Final Discussion and Implementation of the WorkPlan**

**Tues-June-9<sup>th</sup>**

**Morning Visit to Osafune Sword Museum**

14:00 - 15:00

**Afternoon - Departure to Osaka** (KIX Airport)

**Flight to Europe Wed-Jun-10th ---- 11:00 AM**