



# Cosmology and Statistics Days

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Jean-Luc Starck



[www.cosmostat.org](http://www.cosmostat.org)



ARGOS

➔ ARGOS-CDS, EU HORIZON-INFRADEV (2868 kEuros, 2023-2025)

**ARGOS** is a concept **TRL2** for a leading-edge, low-cost, sustainable radio interferometer

**A leading-edge European radio telescope for multi-messenger astrophysics**



TITAN

Artificial Intelligence  
in Astrophysics

➔ TITAN, EU HORIZON-WIDERA (2500 kEuros, 2023-2027), ERA Chair

**Frugal Artificial Intelligence and Application in Astrophysics, ERA Chair in Astro-Informatics at ICS-FORTH and IA-FORTH**



TOSCA

Weak lensing for optical and radio surveys

➔ TOSCA, ANR (500k, 2023-2028)

**New weak Lensing statistics: optimizing the synergy between Euclid and SKA**



# CosmoStat Team



## Staff



J.-L. Starck



S. Farrens



M. Kilbinger



F. Lanusse



**M. Pierre**



**N. Porqueres**

## Postdocs



H. Leterme



**E. Ayçoberry**



**C. Daley**



**C. Murray**

## PhD Students



E. Centofanti



S. Guerrini



F. Hervas Peters



H. Simonfroy



V. Tinanneri Sreekanth



Utsav Akhaury, EPFL

## Software Engineers



**C. Chawak  
(2025)**



N. Moukaddem



J. Pollack



# TITAN TEAM at FORTH (IA & ICS)



## Staff

J.L. Starck  
ERA Chair



P. Tsakalides  
Coordinator



## ICS

G. Tsagkatakis.



G. Tzagkarakis



## IA

V. Charmandaris



V. Vasiliki



T. Diaz-Santos



## Postdocs



A. Aidini



A. Gkogkou



V. Bonjean

## Admin & Technical



M. Papadaki



S. Roumpakis

## PhD



A. Tersenov



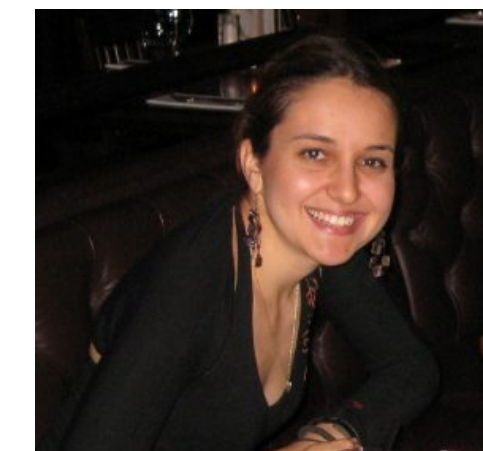
P. Gorbachev



A. Lahiry



Silke Rice ?  
UBC Vancouver



K. Panayidou, Cyprus



FORTH Staff position

<https://spl.ics.forth.gr/titan>



## Former CosmoStat Members

Florent Sureau



Christophe Kervazo



Tobias Liaudat



## CosmoStat Friend

E. Bertin



R. Ansari



Marion Savanier

PhD

Jordy Ram

Master's student



## 2024

- ✓ **Complete the hiring**
- ✓ **2024 Scientific Events**
  - ➔ **COSMO21 conference in May 2024 (Chania, Arsenal conference center).**
  - ➔ **Seminar Serie (six seminars)**
  - ➔ **June 6-7: Joint ARGOS-TOSCA-TITAN meeting in Crete**
  - ➔ **Summer School in July 2024 in Heraklion.**
- ✓ **TITAN review in June**
- ✓ **Research activity started (first TITAN paper submitted this week)**

## 2025

- ✓ **2025 Scientific Events**
  - ➔ **Summer school in Sept (TBD)**
  - ➔ **Seminar Serie (six seminars)**
  - ➔ **July 6-7: Next Joint ARGOS-TOSCA-TITAN meeting in Crete**
  - ➔ **More papers !**



# Program

<https://indico.in2p3.fr/event/34507/>

- January 16 morning: Cosmological inference - High Order Statistics ¶
- **lunch at ROTONDE restaurant**
- January 16 afternoon: Inverse Problems and Incertainties - TITAN update - galaxies - clusters
  
- January 17 morning: Source Separation
- **Lunch (plateau repas at CEA, same room)**
- January 17 afternoon: Discussions
  
- **Jan 17 evening, 20h: social dinner , 71 Rue Mouffetard, 75005 Paris**