CODEJAM

1st Workshop on Computational Biology

Sorbonne University, Faculty of Sciences and Engineering
Master of Integrative Biology and Physiology

Paris France

National and Kapodistrian University of Athens, School of Science
Departments of Biology, Mathematics & Computer Science
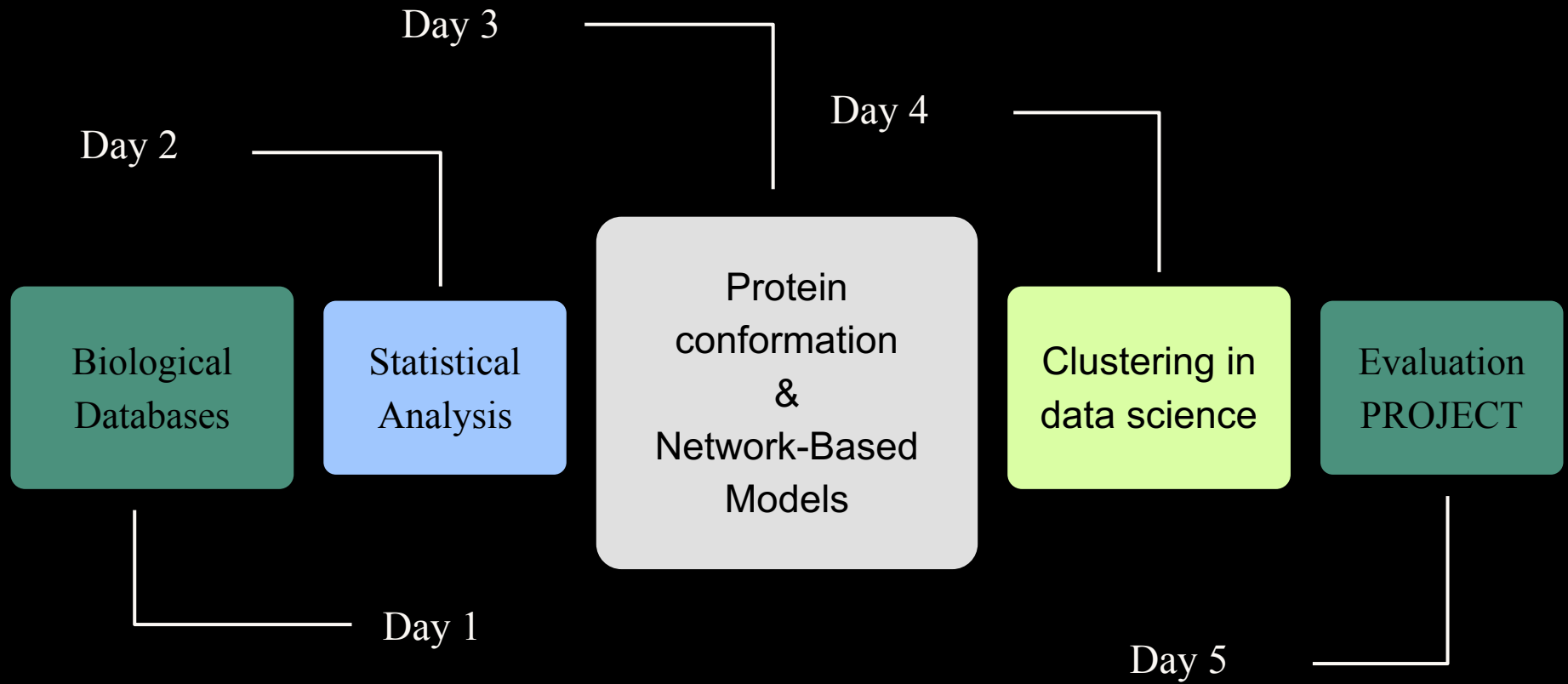**MSc of "Bioinformatics-Computational Biology"**

Athens Greece

With the Participation of Harvard

Supported by **REAL@SU**

6-11th APRIL 2025 Athens GREECE

Program

Keynote speaker

Dr Kalotina MACHINI
Harvard Medical School/Mass General Brigham
Personalized Medicine

Day 1 Biological databases

Dr. Nikolaos PAPANDREOU, Dr. Zoi LITOU, Dr. Ourania KONSTANTI & Assoc. Prof. Vassiliki ICONOMIDOU *(Dept. of Biology, NKUA, GR)*

9-12am Introduction to Biological databases and ontologies
2-5 pm Lab applications of biological databases and ontologies

Day 2 Statistical analyses
Assist. Prof. Fotios SIANNIS, PhD Cand. Stylianos TZORTZAKIS
(Dept. of Mathematics, NKUA, GR)

9-12am Main approaches on linear model
2-5 pm Lab applications

Day 3 Protein Conformation Clustering & Network-Based Models

Dr. Ioannis CHAMODRAKAS & Prof. Ioannis EMIRIS
(Dept. of Computer science, NKUA, GR)

9-11am Protein conformation clustering

Dr. John VAXEVANAKIS & Prof. Vassilis ZISSIMOPOULOS
(Dept. of Computer science, NKUA, GR)

11-1am Biological Network-Based Models for Disease Pathway Detection
3-4 pm Lab Network x Python Library

Day 4 Clustering
Pr. Hedi SOULA *(Sorbonne University FR)*

9-12 am Clustering in biological data
2-5 pm Lab Clustering

Day 5 Evaluation
9am - 5pm Project sessions and grading