

**Solicitud BECA JAE Intro (CONEXIÓN CSIC AIHUB)**

**Tutor del proyecto:**

Dr. Adrià Colomé Figueras (<http://www.iri.upc.edu/staff/acolome>)

**Nombre del Grupo:**

RobIRI: Robot Perception and Manipulation at IRI

**Ubicación del centro:**

Institut de Robòtica i Informàtica Industrial. C/ Llorens i Artigas 4-6. 08028 Barcelona (Barcelona)

**Título del proyecto:**

Latent variable models for dynamic cloth representation and control

**Descripción del proyecto:**

The aim of this project is to work on latent variable models to represent the dynamic behaviour of cloth garments for robotic manipulation. In particular, statistical inference based methods that can project the cloth state into a much smaller dimensional space, allowing a controller to control a more manageable space.

The candidate should be familiar with robotics and statistical inference methods such as Gaussian Processes, and have a good level of mathematics and programming skills.