

**Statistical Challenges in Astronomy  
Draft Program (6 October)**

**Day 1:**

**8:50 Welcome**

**9:05 – 9:50 Keynote: Daniel Foreman-Mackey, Gaussian processes**

**10:00 – 10:30 Invited talk: Sanjib Sharma, Bayesian methods**

**10:30 – 11:00: Morning tea**

**11:00 – 1:00 Workshop session 1: introduce projects, discuss methods, start working**

**1:00- 2:00 Lunch**

**2:00 - 3:00 Contributed talks: Astrophysics**

**3:00 - 3:30: Afternoon tea**

**3:30 - 5:00: John Ormerod: Tutorial on MCMC using R / STAN**

**5:00 - 6:00 Discussion: methods for current astrophysical problems, adjustments to projects**

**(Workshop Dinner)**

**Day 2:**

**9:05 – 9:55 Keynote: Inge Koch**

**10:00 – 10:30 Invited talk: Minh Ngoc Tran**

**10:30 – 11:00 Morning tea**

**11:00 - 12:30 Tomasz Bednarz: data visualization tutorial**

**12:30 - 2:00 lunch**

**2:00 – 3:30 Invited/contributed talks: Stats**

**3:30 – 4:00 Afternoon tea**

**4:00 - 5:30 Workshop session 3: work on projects, present methods and progress**