

# Workshop: High dimensional and dependent functional data

Dates: Monday 10. - Wednesday 12. September 2012

Venue: Goldney Hall Orangery

Schedule:

Monday pm		Tuesday	
12h15 - 13h20	:	08h45 - 09h00	: <i>Coffee</i>
13h20 - 13h30	:	09h00 - 09h30	: Łukasz Kidziński
13h30 - 14h20	:	09h30 - 10h20	: <b>Denis Bosq</b>
14h20 - 14h50	:	10h20 - 10h50	: Jairo Cugliari
14h50 - 15h20	:	10h50 - 11h15	: <i>Break &amp; posters</i>
15h20 - 15h45	:	11h15 - 11h45	: Maurice Berk
15h45 - 16h35	:	11h45 - 12h35	: <b>Victor Panaretos</b>
16h35 - 17h05	:	12h35 - 13h45	: <i>Lunch</i>
17h05 - 17h35	:	13h45 - 14h15	: Valentin Patilea
17h35 - 19h30	:	14h15 - 14h45	: Davide Pigoli
		14h45 - 15h15	: Nicole Augustin
		15h15 - 15h45	: <i>Break &amp; Posters</i>
		15h45 - 16h15	: Elizabeth Sweeney
		16h15 - 17h05	: <b>Haipeng Shen</b>
		17h05 - 17h35	: Ci-Ren Jiang
		19h00 - end	: <i>Conference dinner</i>
Wednesday			
09h15 - 09h30	:		<i>Coffee</i>
09h30 - 10h20	:		<b>Laura Sangalli</b>
10h20 - 10h50	:		Laura Azzimonti
10h50 - 11h20	:		Bree Ettinger
11h20 - 11h45	:		<i>Break &amp; posters</i>
11h45 - 12h15	:		Jan Johannes
12h15 - 13h05	:		<b>Jian Qing Shi</b>
13h05 - 14h15	:		<i>Lunch</i>
14h15 - 14h45	:		Surajit Ray
14h45 - 15h35	:		<b>Frédéric Ferraty</b>
15h35 - 16h05	:		Carlo Sguera
16h05 - 16h40	:		<i>Close and coffee</i>

## Detailed version

### Monday

- 12h15 - 13h20 : *Lunch and Registration*
- 13h20 - 13h30 : Welcome
- 13h30 - 14h20 : **Hans-Georg Müller**, “Modeling repeatedly observed functional data”
- 14h20 - 14h50 : Fabian Scheipl, “Additive mixed models for correlated functional data”
- 14h50 - 15h20 : Jan Gertheiss, “Longitudinal scalar-on-functions regression with application to tractography data”
- 15h20 - 15h45 : *Break*
- 15h45 - 16h35 : **John Moriarty**, “Gaussian process regression on a phylogeny”
- 16h35 - 17h05 : Alessandra Menafoglio, “Universal kriging prediction for spatially dependent functional data of a Hilbert space”
  
- 17h05 - 17h35 : Poster preview session
- 17h35 - 19h30 : *Reception and posters*

### Tuesday

- 08h45 - 09h00 : *Coffee*
- 09h00 - 09h30 : Łukasz Kidziński, “Estimation in Hilbertian linear models”
- 09h30 - 10h20 : **Denis Bosq**, “Constructing functional linear filters”
- 10h20 - 10h50 : Jairo Cugliari, “Conditional autoregressive Hilbertian process”
- 10h50 - 11h15 : *Break & posters*
- 11h15 - 11h45 : Maurice Berk, “Multi-level functional principal components analysis models for replicated genomics time series data sets”
- 11h45 - 12h35 : **Victor Panaretos**, “Fourier analysis of stationary functional data”
- 12h35 - 13h45 : *Lunch*
- 13h45 - 14h15 : Valentin Patilea, “Projection-based nonparametric goodness of fit testing of regression models with scalar response and functional covariates”
- 14h15 - 14h45 : Davide Pigoli, “Distances and inference for covariance functions”
- 14h45 - 15h15 : Nicole Augustin, “Modelling fat mass as a function of weekly physical activity profiles measured by Actigraph accelerometers”
- 15h15 - 15h45 : *Break & Posters*
- 15h45 - 16h15 : Elizabeth Sweeney, “Automatic lesion incidence estimation and detection in Multiple Sclerosis using multisequence magnetic resonance images”
- 16h15 - 17h05 : **Haipeng Shen**, “Nonparametric independent component analysis for colored sources with mixed spectra”
- 17h05 - 17h35 : Ci-Ren Jiang, “Nonparametric response function estimation via FPCA with application to dynamic PET data”
  
- 19h00 - end : *Conference dinner*

## Wednesday

- 09h15 - 09h30 : *Coffee*
- 09h30 - 10h20 : **Laura Sangalli**, “Spatial regression models with differential regularization”
- 10h20 - 10h50 : Laura Azzimonti, “PDE regularised blood velocity estimation”
- 10h50 - 11h20 : Bree Ettinger, “Spatial regression models over two-dimensional Riemannian manifolds”
- 11h20 - 11h45 : *Break & posters*
- 11h45 - 12h15 : Jan Johannes, “Adaptive estimation in functional linear models”
- 12h15 - 13h05 : **Jian Qing Shi**, “Gaussian process regression analysis of large functional data”
- 13h05 - 14h15 : *Lunch*
- 14h15 - 14h45 : Surajit Ray, “Reconstructing trajectories of correlated functional data”
- 14h45 - 15h35 : **Frédéric Ferraty**, “Nonparametric variable selection and FDA”
- 15h35 - 16h05 : Carlo Sguera, “Spatial depth-based classification for functional data”
- 16h05 - 16h40 : *Close and coffee*

## Poster contributions

- Pantelis Hadjipantelis, “Functional phylogenetic Gaussian process regression”
- Sophie Dabo, “Classification and change points detection in functional data”
- Michelle Carey, “A generalised smoother for linear ODEs”
- Manuel Oviedo de la Fuente, “Functional response models in R”
- Haochang Shou, “Structured functional principal components analysis”
- Shahin Tavakoli, “On mixing conditions for asymptotics in functional time series”
- Jona Cederbaum, “Functional linear mixed models for sparsely or irregularly sampled data”
- AhYeon Park, “Principal fitted components for functional regression”
- José Luis Torrecilla, “Variable selection for classification of functional data”
- Javier Gonzalez, “Estimating structured networks using iterative  $l_1$ -penalty approaches”
- Rachid Ali Radi, “Extraction semantic data in multimedia”