

Statistical Analysis of Hyperspectral and **High-Dimensional Remote-Sensing Data**

MSCJ LIFE Spring School

Organizer			
GIScience group,	Day 1	Hyperspectral Day	
http://www.geographie.uni-	9:00 - 12:00	Introduction to hyperspectral remote sensing	Marco Peña (Alberto Hurtado University, Chile)
http://www.lifehealthyforest.com http://www.mscj.uni-jena.de	13:00 -14:45	Hyperspectral applications: Forest	Aneta Modzelewska (Forest Research Institute Raszyn)
Date & Location 13 – 17 March 2017 University of Jena Institute of Geography	15:15 – 17:00	Hyperspectral remote sensing for forest	Dr. Henning Buddenbaum (University of Trier)
07745 Jena	Day 2	R: Introduction & Geocomputing	
Places & Pricing)
 Fee: 300 € 25 Places China da una ilable for colorted 	09:00 – 10:00	Introduction to programming and data analysis with R	Patrick Schratz
 Stipends available for selected participants. Please prepare a short motivation letter. 	10:30 - 12:00	Using R as a GIS	Dr. Jannes Muenchow
What to expect	13:00 - 17:00	Handling & Visualization of spatial objects	Dr. Tim Appelhans (GfK Geomarketing)
State of the art statistical analysis of high-dimensional and especially hyperspectral data from leading experts in the	Day 3	R & Hyperspectral Analysis	
respective fields. A mixture of lectures and lab classes / hands-on sessions using the widely used	9:00 - 12:00	Statistical methods for hyperspectral data analysis	Prof. Alexander Brenning
programming language R Networking with other data-	13:00 - 14:45	Spectral data analysis: A physical chemistry perspective	Dr. Thomas Bocklitz (IPC Jena)
Information	15:15 – 17:00	Networking and poster presentations	All participants
 Catering available (not including lunch) Personal lantons needed 	Day 4	High-Dimensional Modelling	
Certificates of participation	9:00 - 12:00	Dealing with high-dimensional data: Feature selection and dimension reduction	Prof. Alexander Brenning
Please use this form [link: http://tinyurl.com/MSCJLIFE] to apply for participation in the MSCJ	13:00 -15:00	Dealing with high-dimensional data: Statistical and machine- learning techniques	Prof. Alexander Brenning
Contact	15:30 - 17:00	Lab class: Applied hyper- spectral data processing in R	Patrick Schratz
patrick.schratz@uni-jena.de			
	Day 5	Field Trip	

Date & Location

Places & Pricing

- Fee: 300 €
- 25 Places
- Stipends available for selected participants. Please prepare a short motivation letter.

What to expect

- State of the art statistical analysis of high-dimensional and especially hyperspectral data from leading experts in the respective fields.
- A mixture of lectures and lab classes / hands-on sessions using the widely used programming language R Networking with other data-

Information

- Personal laptops needed
- Certificates of participation

Registration

Contact





08:00 - 12:00 Thuringian Forest Excursion (to be determined)