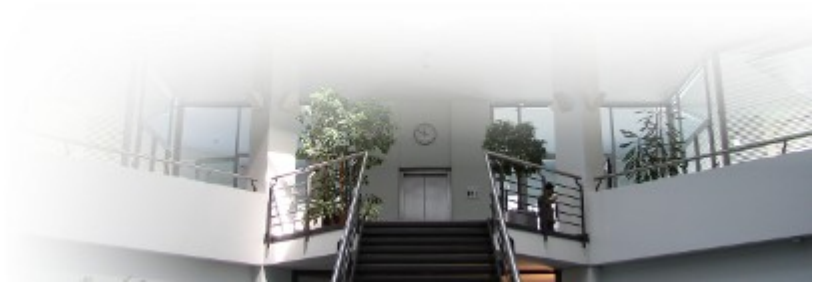




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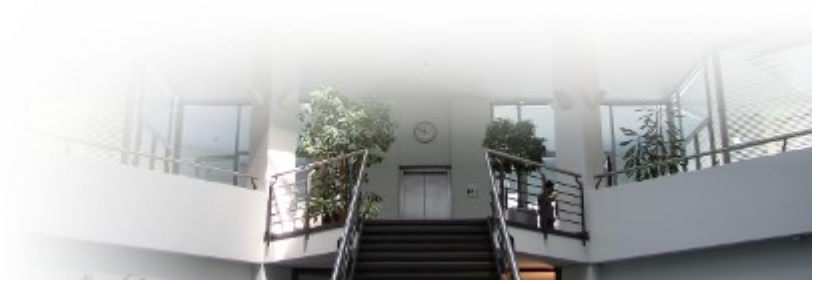


# Share Your Code?

@ReinhardFurrer

I·Math-ICS, UZH

EBPI Colloquia, 2019-06-05



# Remember S+ ?

<http://user.math.uzh.ch/furrer/dmawww.epfl.ch/leman/>

<http://user.math.uzh.ch/furrer/dmawww.epfl.ch/SIC97/>

## Robust Spatial Data Analysis of Lake Geneva Sediments with S+ SpatialStats

Reinhard Furrer, Marc G. Gerber

### Abstract

This paper discusses the use of robust geostatistical methods on a multivariate data set of detrended via non-parametric estimation penalized with a smoothing parameter. The optimal validation. Then variograms are estimated by a highly robust estimator of scale. The paper

### S-Plus functions

Download of the functions for highly robust variogram estimation and generalized least squares fitting. This software may be used, copied and modified freely for scientific and/or non-commercial purposes, provided reference is made.

- Highly robust variogram estimation: [READ.ME](#)  
[variogram.qn.tar](#)
- Generalized least squares fitting: [READ.ME](#)  
[glse.fitting.tar](#)

The authors decline any responsibility of the correctness of the functions and any damages that may occur by using them. The authors appreciate all comments on the functions.



# Move to a package

<http://user.math.uzh.ch/furrer/software/KriSp/>



spam

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**About KriSp**

[KriSp Home](#)

[Tutorial \(html\)](#)

[Tutorial \(pdf\)](#)

[Contents \(html\)](#)


[Contents \(pdf\)](#)

[History/Versions](#)

**Related Software**

[Fields](#)

[SparseM](#)



## KriSp

A collection of functions based in R/Fortran for interpolation of large datasets using covariance tapering. Written by [Reinhard Furrer](#).

The package **KriSp** (**K**riging with **S**parse matrices) is considered as an add-on to the package [fields](#). **KriSp** has a similar class to one of [fields](#) and uses some of its methods. Further, **KriSp** uses the package [SparseM](#) to handle the sparse matrix techniques. Thus the package is not exhaustive in its functionality compared to other geostatistical packages like [geoR](#). Also, most functions are not fully optimized in order to enhance readability of the code.

**Current development version:**

[KriSp\\_0.4.tar.gz](#) (November, 22, 2006)

**Availability:**

Currently, **KriSp** was successfully installed and tested on the following platforms and versions.

- R-2.4.0, i4686-pc-linux-gnu.
- R-2.2.1, i486-pc-linux-gnu.
- R-2.1.0, i386-pc-linux-gnu.

If you run **KriSp** on other platforms, let [me](#) know.

**The major methods include:**

[Krig.simple.sparse](#) Simple kriging

[Krig.sparse](#) Univariate kriging (with a backfitting procedure)

[predict.sparse](#) Spatial process prediction



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## Why to post:

- + Student leaves, Professor stays
- + Bare minimum of testing
- + Visibility for student
  
- Overhead
- Potential exposure (from student's side only)
  
- ? Force to do so



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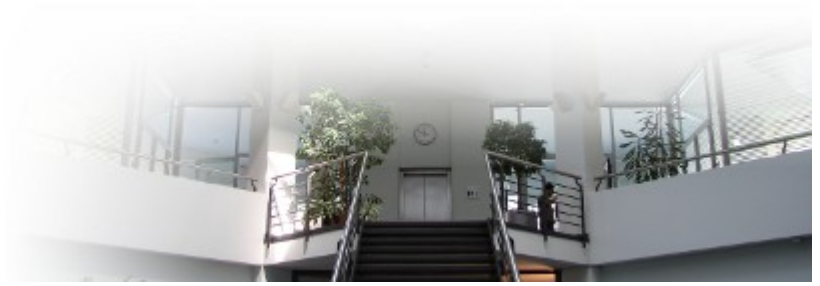


## What to post:

- + Structured, self-contained and tested code
- + Projects (Semester/MSc thesis, papers, ...)
- Single functions
- Untested/undocumented code
- ? Massive data, output, images, ...
- ? Licence



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## Where to post:

+ Git-repo:

<https://about.gitlab.com/>      <https://git.math.uzh.ch>

<https://r-forge.r-project.org/>      <https://github.com/>

+ CRAN, Bioconductor

- personal homepage

? Who should provide the repos?