

# Table of Contents

<b>Welcome to the RooStats Wiki.....</b>	<b>1</b>
NEW Opportunity to contribute to RooFit/RooStats development.....	1
What is RooStats?.....	1
How to get it?.....	1
Tutorial Screencasts on.....	1
Organization.....	1
Resources.....	1
Benchmark workspaces and likelihoods.....	2
Talks, meetings, and more information.....	2

# Welcome to the RooStats Wiki

## **NEW** Opportunity to contribute to RooFit/RooStats development

See the Opportunity listing on the LPCC homepage: <http://lpcc.web.cern.ch/LPCC/index.php?page=misc>

## What is RooStats?

This is a wiki for RooStats development. RooStats is a project to create statistical tools built on top of RooFit and distributed in ROOT. It is a joint project between the LHC experiments and the ROOT team. There is an old users guide [here](#). The latest version of the HistFactory documentation (draft 5, under development) is found here: CERN-OPEN-2012-016 [and](#) new C++ and Python bindings described [here](#).

## How to get it?

The current recommended version ships with ROOT 5.30. All you need is the latest ROOT release [and](#) the code is developing quickly, so you may need to Download and Install the RooStats Branch

## Tutorial Screencasts on

In addition to the user's guide, we will be providing some screen casts. The first getting started screen guide is below. And more can be found at <http://www.youtube.com/RooStats>. You will want to choose the HD version to see more clearly.

## Organization

The RooStats project has an oversight committee formed by the heads of the ATLAS and CMS statistics forums. Through several joint ATLAS-CMS statistics meetings we have converged on a structure in which the oversight committee sets goals and priorities for tool development (at a high level), adjudicates any conflicts that might arise, and helps find manpower if needed. The development of RooStats is open in nature, with four core developers:

- Kyle Cranmer representing ATLAS
- Gregory Schott representing CMS
- Lorenzo Moneta representing ROOT
- Wouter Verkerke representing RooFit (on which RooStats is based)

These core developers have access to ROOT's SVN repository.

## Resources

- RooStat tutorial at Desy Statistics school, March 2015 ( [RooStatsTutorialsMarch2015](#) - in preparation)
- Tutorials for the 2013 INFN School of Statistics: [slides](#) and [Twiki](#) page.
- RooStats tutorials at 2012 Bonn school on limit setting and global fits: [slides](#) and [Twiki](#) page for hand-on tutorials.
- RooStats tutorials for LHCb (27/4/2012): [slides](#) and [Twiki](#) page for hand-on tutorials.
- RooStats/RooFit tutorials at Desy 2012 School of Statistics: [RooFit introduction](#) and [exercises](#); [RooStats part 1](#) (introduction), [part 2](#) (exercises on profile likelihood and Bayesian calculators),

part 3 [\(hypothesis tests\)](#), part4 [\(hypothesis tests inversion\)](#) and part 5 [\(model combination and histfactory\)](#).

- The current version of RooStats user's guide is link points to document in svn [\(link\)](#)
- CERN-OPEN-2012-016 [\(link\)](#): Draft of HistFactory Users Guide
- HistFactoryXMLReference
- Proceedings of ACAT2010 conference, February 2010: RooStats paper [\(link\)](#)
- 138 slides of documentation for french School of Statistics, May 2010: RooStats SOS 2010
- ~200 slides of documentation on RooFit for french School of Statistics, 2008: RooFit SOS 2008 [\(link\)](#)
- mailing list: roostats-development -at- cern.ch is hosted via CERN groups [\(link\)](#)
- Bug tracking on savannah [\(link\)](#)
- RooFit User's Guide [\(link\)](#)
- RooFit Tutorials [\(link\)](#)
- RooStats Tutorials [\(link\)](#)
- RooFit Code Documentation [\(link\)](#)
- RooStats Code Documentation [\(link\)](#)
- ROOT's Stat and Math tools forum [\(link\)](#)
- Link to SVN branch [\(link\)](#)
- Version 5.23 release notes [\(link\)](#)
- **NEW** Some RooStats examples using shapes in the CMS Tutorials held on 2-5-2011

## Benchmark workspaces and likelihoods

In the ongoing discussion of publishing likelihood functions, we are collecting some benchmark workspaces representing hypothetical measurements, searches, etc. from the LHC.

## Talks, meetings, and more information

- RooStats talk [\(link\)](#) at EPS 2013, Stockholm
- RooStats for Searches [\(link\)](#), presentation at PhyStats 2011 [\(link\)](#) by G. Schott (a video recording is available here [\(link\)](#))
- Status of RooStats, presentation at CHEP 2010 by L. Moneta
- Some validation work for well studied problems by Adi Ashkenazi, Renaud Bruneliere, Riccardo Bianchi
- Status of RooStats Fall 2009
- Status of RooStats Summer 2009 (production release 5.24)
- April 30, 2009 Presentation about Neyman Construction & Feldman-Cousins
- April 30, 2009 Bernstein Correction presentation
- Kyle's early RooStats talk at ROOT 2007 Workshop [\(link\)](#)
- First ATLAS/CMS meeting: Friday June 29, 5PM, right after PHYSTAT
- PHYSTAT LHC Writeup [\(link\)](#), Kyle's PhyStat talk with a little RooStats [\(link\)](#), Wouter's PhyStat talk [\(link\)](#), Lorenzo's PhyStat talk [\(link\)](#)
- RooStats in CERN courier [\(link\)](#)
- ATLAS/CMS July 17, 2007 [\(link\)](#)
- Wouter's 2007 BaBar talk [\(link\)](#)
- ATLAS/CMS September 4, 2007 [\(link\)](#)
- ATLAS/CMS February 29, 2008 [\(link\)](#)
- ATLAS/CMS July 29, 2008 [\(link\)](#)
- ATLAS/CMS Sept 25, 2008 [\(link\)](#)
- HiggsWGRooStatsCms
- OriginalTwikiLinks
- GoogleSummerOfCode

- roostats\_chep2010.pdf: RooStats presentation CHEP 2010
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This topic: RooStats > WebHome

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