



King Abdullah University of
Science and Technology

KAUST STATISTICS PROGRAM 5 YEARS ANNIVERSARY 2012-2022

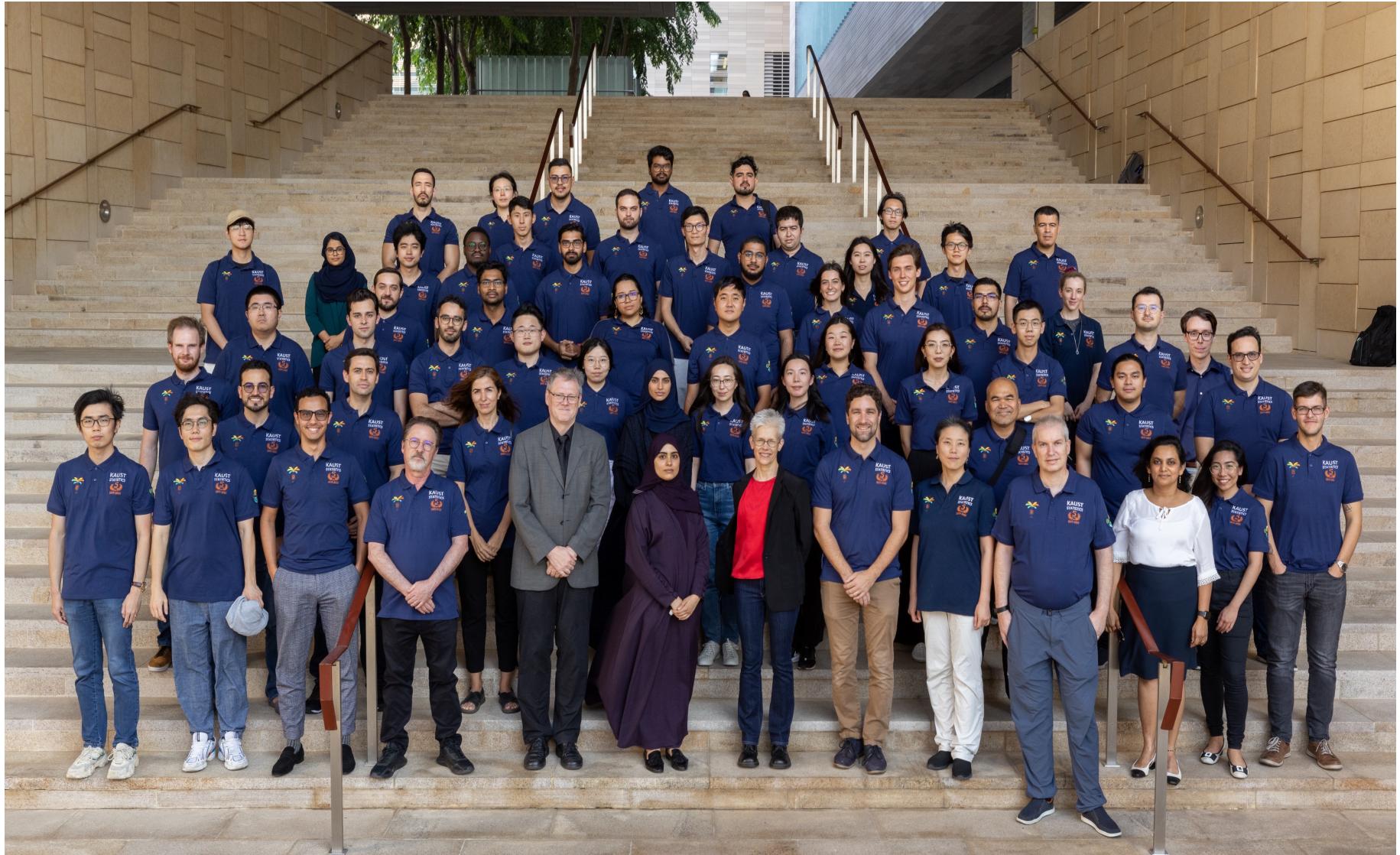


Marc G. Genton

October 31, 2022

<https://stat.kaust.edu.sa>

Statistics Program @ KAUST now!



Statistics @ KAUST in 2012

My research group:



How did I end up at KAUST?

- KAUST construction started in Fall 2007, opened for classes on Sept. 23, 2009
- KAUST Global Research Partnership centers: awarded to Oxford, Cornell, Stanford, Texas A&M in 2008
- TAMU: Institute for Applied Mathematics and Computational Science (IAMCS; involved 3 departments: Applied Mathematics, Computer Science, Statistics)
- Jim Calvin (Director) and Raymond J. Carroll (Statistics Deputy Director)
- 2009-2012: Jim Calvin taught a course at KAUST then hired to become VPAA; Raymond J. Carroll became Director of IAMCS; Marc G. Genton became Statistics Deputy Director of IAMCS
- After several KAUST-IAMCS workshops, Marc G. Genton hired at KAUST in the Applied Mathematics and Computational Science (AMCS) program; first working day on October 16, 2012

Beginning of Statistics @ KAUST

- Introduced new course AMCS 243 (now STAT 220) Probability and Statistics
- Statistics first as track in AMCS
- First PhD student in Fall 2013: Sabrina Vettori (from University of Padova), PhD 2017, now CEO of KAUST startup Edama Organic Solutions



- Second Postdoc in Fall 2013: Raphael Huser (from EPFL)

My research group in 2014



Ying Sun's research group in 2014



Genton-Huser-Sun groups in 2015



Deepa Pinto joins in 2016 as business coordinator

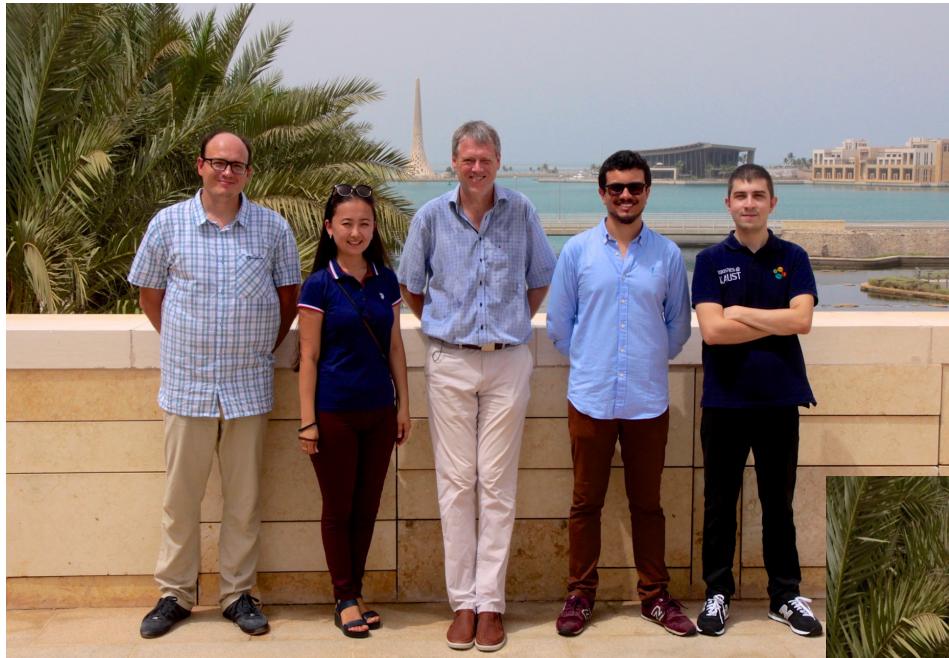


...and as a problem solver!

Genton-Huser-Sun groups in 2016



Haavard Rue and Hernando Ombao join in Spring 2017



Haavard Rue and Hernando Ombao join in Spring 2017



Fall 2017: start of new Statistics Program (STAT)

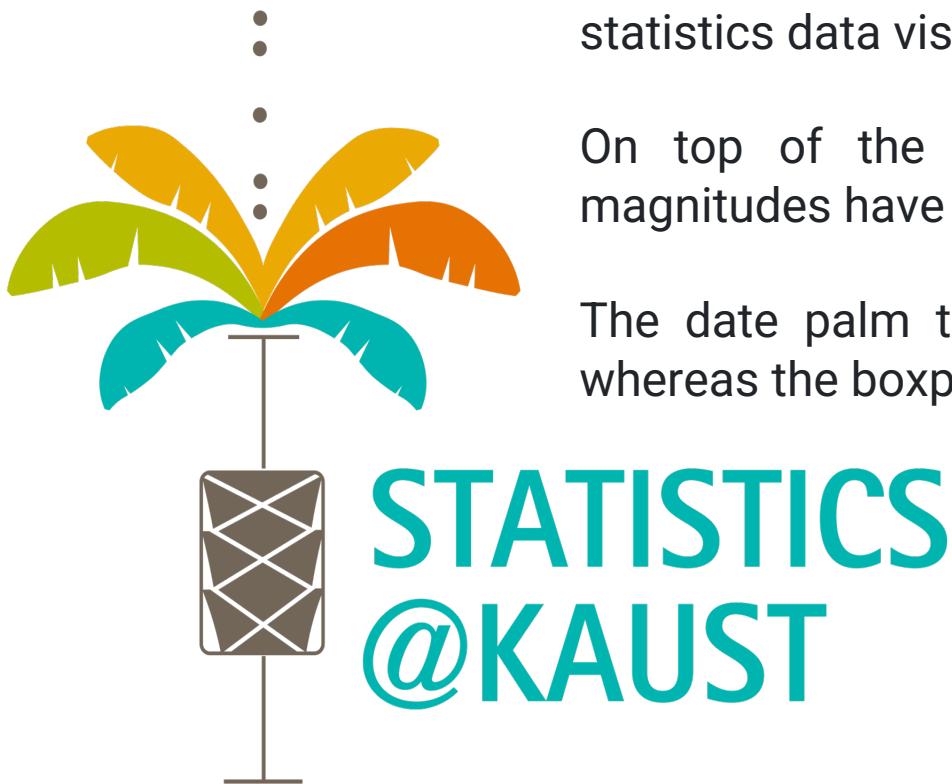
with the support of Dean Mootaz Elnozahy

and with Marc G. Genton as Founding Program Chair

The STAT program "logo" represents a date palm tree whose branches have the KAUST colors and whose brown trunk is a symmetric boxplot, a key tool for statistics data visualization

On top of the palm, five outliers with different magnitudes have been detected and visualized

The date palm tree represents vitality and growth, whereas the boxplot represents statistics



Statistics Program in 2018



Joaquin Ortega and David Bolin join in Fall 2019



Statistics Program in December 2019



Graduation ceremony in December 2019



Paula Moraga joins in Fall 2020



Hernando Ombao takes over as Statistics Program Chair in Fall 2020

... covid ... Statistics Program in 2022!



Statistics Program @ KAUST now!

- 8 core STAT faculty (2 additional open positions!)
- 11 affiliated faculty (3 AMCS; 4 CS; 3 ECE; 1 ErSE)
- 5 Research Scientists (2 alumni)
- 10 Postdocs (24 alumni)
- 35 PhD students
- 10 MS/PhD students
- 3 MS students

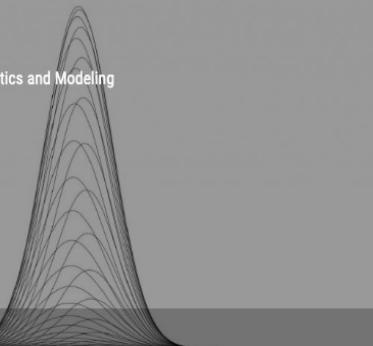
Delivered so far:

- 13 PhD degrees (another 10 expected during the next year)
- 21 MS degrees

Statistics Program Core Research Groups

BAYESCOMP

Bayesian Computational Statistics and Modeling



Professor Haavard Rue

BIOSTATS

Biostatistics



Professor Hernando Ombao

ES

Environmental Statistics

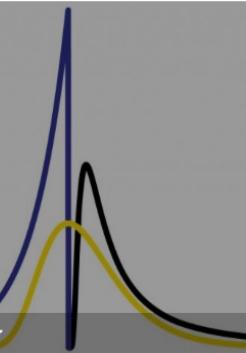


EnvStat

@ KAUST

extSTAT

Extreme Statistics



Professor Raphael Huser

GeoHealth

Geospatial Statistics and Health Surveillance

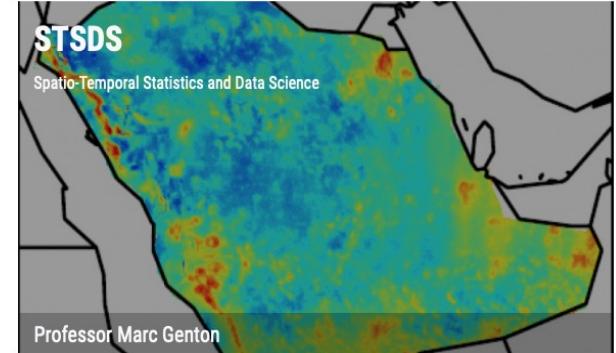


GeoHealth

Professor Paula Moraga Geospatial Statistics and Health

STSDS

Spatio-Temporal Statistics and Data Science



Professor Marc Genton

StochProc

Stochastic Processes and Applied Statistics

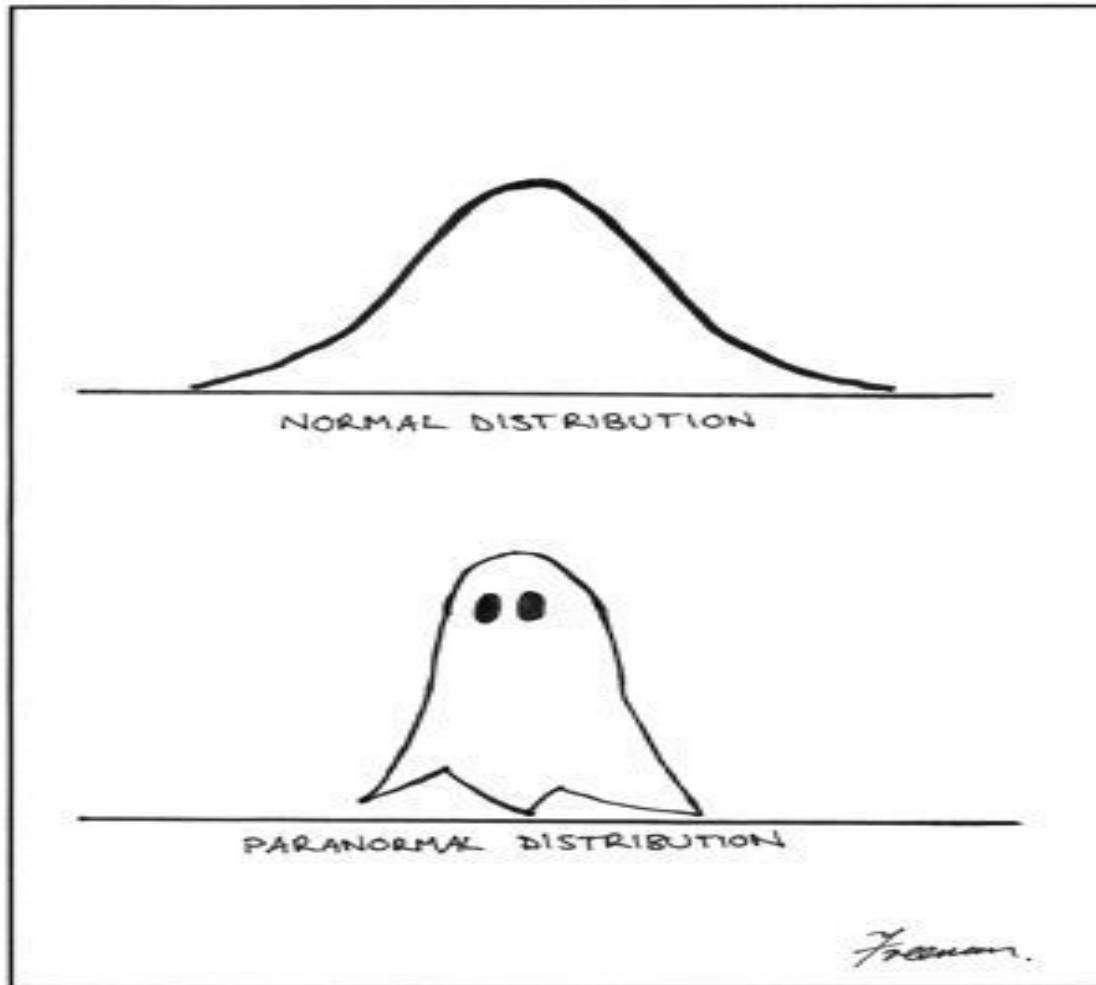


Professor David Bolin

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Happy Halloween. . .



. . . and enjoy the workshop!