CONTACT

- 🧧 jeffrey@my-sh.ch
- in Linkedin

Website

Orcid

Google Scholar

SKILLS

Python	1+ yrs
R	6+ yrs
Matlab	6+ yrs

TEACHING

Teaching Assistant Fundamentals of Mathematical Statistics

ETH Zürich Lecturer Fundamental Pro

Fundamental Probability for Finance

University of Zurich

Teaching Assistant Introductory Econometrics

University of Zurich

AWARDS

Rigour and Relevance Research Award Swiss Academy of Marketing Science

Prize for outstanding Master Thesis University of Zurich



2022

JEFFREY NÄF

Researcher - Statistician

RESEARCH INTERESTS

nonparametric statistics, kernel methods, probabilistic modeling, uncertainty quantification, missing values

EDUCATION

PhD in Statistics, ETH Zurich Supervisor: Nicolai Meinshausen

My thesis is centered around Random Forest (RF) and various applications. In particular, we developed non-parametric two-sample tests and a measure of quality of imputation methods for missing data. We finally developed a natural generalization of the RF that allows for an efficient non-parametric estimation of the whole conditional distribution.

Master of Science in Statistics ETH Zurich Final GPA – 5.85 out of 6

2015 - 2017

2018 - 2023

Master Thesis: *Review of Asymptotic Results in Empirical Process Theory*, with Prof. Dr. Sara van de Geer.

Master of Arts in Business Administration University of Zurich

Final GPA – 5.80 out of 6

Master Thesis: New Generalized Student t Distribution with Differing Tail Indexes for Each Margin, with Prof. Dr. Marc Paolella.

Bachelor of Arts in Economics, University of Zurich *Final GPA – 5.35 out of 6*

2010 - 2014

2023

May 18 - Feb 23

2013 - 2018

Bachelor Thesis: *Re-evaluating Takahashi Korekiyo's Role in Japan's Recovery from the Great Depression*, with Prof. Dr. Mathias Hoffmann, Dr Alexander Rathke.

WORK EXPERIENCE

Postdoc PreMeDICaL Team, Inria Montpellier, France

Full time researcher

Doctoral Student and Group Coordinator of the Seminar for Statistics

ETH Zurich, Switzerland

Research combined with teaching and organizing the courses and exams at the Seminar for Statistics at ETHZ, as the Group Coordinator.

Research Assistant at the Chair of Empirical Finance University of Zurich, Switzerland

Jun 15 - May 18

Working on research projects, such as the development of new multivariate distributions for portfolio applications.



2017/18

2018-21

OUTREACH

Author and Contributor to various Medium articles in Towards Data Science, such as

- DRF: A Random Forest for (almost) everything
- CLVTools: A powerful R package to evaluate your customers
- I-Scores: How to choose the best method to fill in NAs in your data set
- Nonlinear Shrinkage: An Introduction
- Deep Dive into HPLBs for A/B Testing using Random Forest
- Random Forests in 2023: Modern Extensions of a Powerful Method

SOFTWARE

CLVTools R package

ongoing

ongoing

ongoing

Part of the developer community of the CLVTools R Package for customer evaluation. The package contains efficiently implemented versions of some of the most important models for customer lifetime evaluation.

Iscores R package

Package to rank Imputation

drf R package

methods

Package implementing Distri-

butional Random Forests

HPLB R package

ongoing

Package implementing High Probability Lower Bounds for the Total Variation Distance

Research Assistant at the Chair of Marketing and Market Research

University of Zurich, Switzerland

Working on research projects such as the extension of the Pareto/NBD model to allow for time-varying covariates and implementation of the derivations in R.

Assistant at the Chair of Microeconomics/Industrial Jun 14 - May 18 Organization

University of Zurich, Switzerland

Administrative tasks and programming in Mathematica and LATEX.

PUBLICATIONS



Authors: S. Hediger, L. Michel, J. Näf

MISCELLANEOUS

First Dan (Black Belt) Shotokan Karate

Coffee lover with advanced Barista skills



Presenting "Distributional Random Forests"

EcoSta 5th International Conference on Econometrics and Statistics, Japan

Presenting the working paper "Combining the MGHyp Distribution with Nonlinear Shrinkage in Modeling Financial Asset Returns"

Invited Seminar Talk University of Montpellier

May 2022

June 2022

Presenting the paper "Imputation Scores"

EcoSta 3rd International Conference on Econometrics and Statistics, Taiwan

June 2019

Presenting the paper "On the Use of Random Forest for Two-Sample Test-ing"

REFERENCES

