

Roman Hahn | Curriculum Vitae

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Date and Place of Birth: 16th January 1992, Singen, Germany

Education

Bocconi University

Milan, Italy

Ph.D. in Statistics

Sep. 2017 – Present

My supervisor is professor Emanuele Borgonovo. My current research interests lie in Machine Learning and Sensitivity Analysis, with a particular focus on explainability of black-box models.

University of Pavia / University of Hohenheim

Pavia, Italy / Stuttgart, Germany

Master of Economics / Double M.Sc. Degree Program

Oct. 2014 – Nov. 2016

Major: Econometrics/Statistics and Finance; Average grade: 1.0 (approximate equivalent to a 4.0 GPA)

Master thesis: *Bayesian non-parametric models for species sampling problems*. Thesis supervisor: Prof. Antonio Lijoi (Bocconi University)

University of Hohenheim

Stuttgart, Germany

B.Sc. in Economics

Oct. 2011 – Oct. 2014

Major: Econometrics and Finance; Average grade: 1.6 (approximate equivalent to a 3.4 GPA).

Academic Experience

Working Papers.....

"Computing the mean dimension of neural networks", joint work with E. Borgonovo and C. Feinauer. (work in progress)

"Do neural networks see statistical dependence?", joint work with E. Borgonovo, C. Feinauer and E. Plischke. (work in progress)

"Comparing Neural Networks with Sensitivity Analysis", joint work with E. Borgonovo and C. Feinauer. (work in progress)

"Understanding Deep Networks Hyperparameters Space through Design of Experiments", joint work with E. Borgonovo, C. Feinauer and E. Plischke. (work in progress)

Teaching/Research Activities.....

Bocconi University

Milan, Italy

Teaching Assistant: "Principles of Business Analytics"

A.y. 2019/2020 and 2020/2021

Tutoring (proposing and solving exercises) for master degrees in *Management* and *International Management*.

Bocconi University

Milan, Italy

Teaching Assistant: "Statistics"

A.y. 2018/2019

Tutoring (proposing and solving exercises & scoring exams) for bachelor degrees in *Economics and Management*, *Economics and Management for Arts, Culture and Communication* and *Economics, Management and Computer Science*.

Bocconi University

Milan, Italy

Teaching Assistant: "Applied Stochastic Processes"

A.y. 2018/2019 and 2019/2020

Tutoring (proposing and solving exercises) for all bachelor degrees at Bocconi University.

University of Hohenheim

Teaching Assistant: "Macroeconomics"

Tutoring (proposing and solving exercises & scoring exams) for bachelor degree in *Economics*.

Stuttgart, Germany

A.y. 2014/2015

University of Hohenheim

Research Assistant: "Econometrics"

Supporting the econometrics group in their research, mainly data analysis.

Stuttgart, Germany

April - July 2015

Talks, conferences and workshops.....

9th International Conference on Sensitivity Analysis of Model Output **Barcelona, Spain**

SAMO 2019

Oct. 2019

Data Research Camp

Venice, Italy

Workshop

July 2019

It was a 3-day meeting where small research groups of young scholars, advised by senior researchers, were asked to develop innovative methods and models to analyze a common dataset. I worked in a group supervised by professor Simone Vantini from Politecnico di Milano.

🌟 Funded Research Projects

Campari Group

Milan, Italy

Research Project

Jan. 2020 - May 2020

EBIT Sensitivity and Forecasting using Dynamic Linear Models

🏢 Industry Experience

Horváth & Partners, Steeringlab

Munich, Germany

Data Scientist, Consultant

Dec. 2016 - Aug. 2017

- Big Data Business Analytics
- Projects:
 - sales forecast for worldwide leading pharma company
 - consumption forecast for German energy company
 - transport optimization for a European railway company

Landesbank Baden-Württemberg

Stuttgart, Germany

Intern, Credit Research

Feb. - May 2014

- Supporting department leader in company and industry specific research
- Assisting in publishing weekly Information for investors
- Analyzing financial coefficients

💻 Programming Skills

Advanced: R, LaTeX, Python, Pytorch

Intermediate: Linux, Stata, Matlab

Basic: SQL, Julia

📶 Outreach and Scholarships

DeepLearn

Warsaw, Poland

Summer School

July 2019

Machine Learning Crash Course

Genoa, Italy

Summer School

June 2019

Bocconi University PhD BEAT program <i>Bocconi Excellence in Advanced Teaching program</i> Aim of the program is to support PhD students in exploring new pedagogical methodologies and teaching practices as well as to help them in personal development and to provide enhanced learning experiences in the classrooms.	Milan, Italy Oct. - Dec. 2018
Bocconi Summer School in Advanced Statistics and Probability <i>Summer School (Topic: Graphical Models)</i>	Como, Italy July 2018
Bocconi University PhD Scholarship <i>Scholarship</i>	Milan, Italy Sep. 2017 - Present
Prize for the best Master Degree (University of Hohenheim) <i>Award</i>	Stuttgart, Germany July 2017
Prize for the best Master Degree (University of Pavia) <i>Award</i>	Pavia, Italy March 2017
Prize for the best Double Degree (HERMES) <i>Award</i> Awarded for the best master degree of the HERMES double degree network during a ceremony in Budapest.	Budapest, Hungary June 2018
Erasmus+ Scholarship <i>Scholarship</i> Received by the Erasmus+ program to spend the 2nd year of the Master's degree in Pavia.	Pavia, Italy Sep. 2015 - Sep. 2016
CFA (Chartered Financial Analyst) Institute Competition <i>Competition</i> Elected team member of Pavia University for the CFA institute competition.	Pavia, Italy 2016
Deutschlandstipendium <i>Scholarship</i> Scholarship for outstanding students provided by federal government and private sponsors.	Stuttgart, Germany Sep. 2015 - Sep. 2016
Sport Instructor, Football <i>Extracurricular Activities</i> Organizing the weekly football training at <i>University of Hohenheim</i> as a 'sportsteam member'.	Stuttgart, Germany 2015
3rd Prize for Bachelor Degree <i>Award</i>	Stuttgart, Germany Oct. 2014
Dean's List member of University of Hohenheim <i>Award</i> The Dean's List contains the best 3% students of the faculty.	Stuttgart, Germany 2012 - 2016

Language skills

German: Mother tongue

English: Excellent command

Italian: Fluent

French: Basic