HUMBOLDT-UNIVERSITÄT ZU BERLIN



Guidlines for Writing a Bachelor or Master Thesis

School of Business and Economics

Ladislaus von Bortkiewicz Chair of Statistics

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Qualifying requirements:

Bachelor:

1.) Twelve credit points (Leistungspunkte) from the voluntary bachelor modules in statistics to be attained before the start of the Bachelor thesis.

Masters:

- 1.) Exam pass in "Multivariate Statistical Analysis I" (6 Leistungspunkte)
- 2.) Exam pass in "Statistical Programming Languages" (3 Leistungspunkte)
- 3.) One satisfactory presentation and regular attendance in "Privatissimum Statistics".
- 4.) A ten-page pilot paper on a given topic with corresponding Quantlets.

Confirmation by the appropriate examination office is required for 1) and 2).

Aim of the thesis:

The purpose of the final thesis is to show that you have the ability to apply statistical methods to a problem in an appropriate manner. For a bachelor thesis this means tackling a problem using mathematical statistical **or** data-analytical methods. In a master's thesis the problem must be tackled in an appropriate manner using both mathematical statistical **and** data analytical methods.

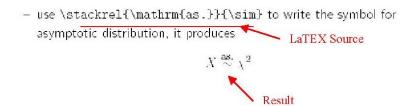
The evaluation of the thesis is orientated towards the following aspects:

- 1.) Form Have the formatting instructions been observed? Is the work legible from a formatting perspective? For example; are all of the graphic elements in the correct place, or are any of the tables outside of the page borders? Are there any typing mistakes, grammatical errors or incomplete sentences?
- 2.) Statistics Have the mathematical statistical aspects been correctly processed? Are the statistical methods used for the problem appropriate?
- 3.) Interpretation Is the work clear in relation to the formulation of the problem? Have the problems presented been adequately answered? Is the sequence of the methods applied clearly described, self-evident and understandable? Is the interpretation of the results correct, complete and understandable?

Requirements of content and form of the pilot paper and thesis:

- 1.) The work should present the author's competence in the subject and their ability to independently handle and process statistical data with the help of statistical software (for example SPSS, Matlab, R, etc.)
- 2.) The thesis should be written in LaTeX. Any variation of these regulations will only be permitted with prior approval.
- 3.) MD*Stat style should be used for the mathematical symbols in presentations and in the thesis.

Here is an example:



The corresponding LaTeX-source (Slides: Beamer Style LaTeX) can be found at:

- https://www.wiwi.hu-berlin.de/de/professuren/quantitativ/statistik/miscellaneous
- 4.) The cover page should contain the Humboldt Universität zu Berlin logo, (see: https://www.wiwi.hu-berlin.de/de/professuren/quantitativ/statistik)
- 5.) Tables should be integrated into the text (not in the Appendix). Each table should not exceed one page.

Here is an example:

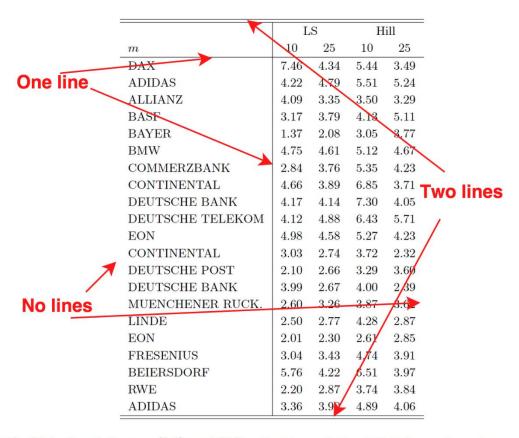
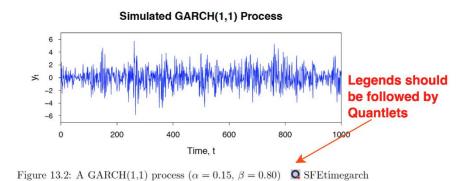


Table 12.1: Least Square (LS) and Hill estimators of the tail index a for returns of the DAX index and selected 20 German stocks with m observations used for the estimation from 2004 to 2014. \square SFElshill

6.) Graphics should be provided with legends, as in the following example:



- 7.) Programs (Quantlets) should be submitted with the thesis. Quantlets must be approved and uploaded by the Q-Net team (see **Quantlet Validators** in http://quantlet.de/index.php?p=submission). Please follow the QuantNet Style Guide. Each program should have a Quantlet logo: http://sfb649.wiwi.hu-berlin.de/quantnet/index.php?p=start
- 8.) All references should be prepared in AMS-style and should be quoted as in the following example: "...

was used from **Bossaerts and Hillion (1993)** ..." The list of references should be compiled in the following way:

Bossaerts, P. and Hillion, P. (1993). Test of a general equilibrium stock options pricing model, Mathematical Finance 3; 311–347.

Box, G. F. P. and Jenkins, G. M. (1976). Time Series Analysis: Forecasting and Control, Holden-Day, San Francisco.

Book

- 9.) All sources, quotes, graphics, tables and so on should be clearly identified. The thesis will be checked for plagiarism, and if found the work will graded as "failed".
- 10.) Cases falling outside of the above rules are to be referred to the Examination Office (Prüfungsamt).

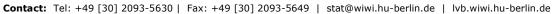
Guidelines for thesis submission:

- The duration of the thesis preparation (writing) period is defined by the current study regulations; the submission deadline must not be exceeded.
- Two printed (hardcopy) versions of the work must be submitted to the examination office (Prüfungsamt) before the deadline, with the title of the work and the author's name clearly visible on the cover (front) page.
- The work is also to be submitted to the LvB Chair of Statistics (LvB Lehrstuhl für Statistik) in a PDF-Form format by the author, thereby enabling the grading process to start as soon as possible.
- The following steps are also to be strictly observed for the online publication of the thesis on the HU's edoc-server, for which the student would have already given his/her written consent when applying to the LvB Chair of Statistics to write the thesis:
 - The author is responsible for checking that the entire text of his/her work which when complete will be graded – fulfills all the formal criteria stipulated under https://edoc.hu-berlin.de/e autoren/was-diplom.php.
 - Access to Adobe Acrobat Professional can be obtained through the media-PCs at the HU
 Grimm-Zentrum to help you check the PDF version of your thesis. Please see:
 https://www.cms.hu-berlin.de/de/dl/oecap/pcsaal/copy of softwarelisten/medien-pcs-imgrimm-zentrum-raum-2.307) or by opening an account at our Research Data Center:
 https://sfb649.wiwi.hu-berlin.de/quests/quests/guests/
 - The author is to send a signed Publication Contract (Veröffentlichungsvertrag), which can be downloaded from: https://edoc.hu-berlin.de/e autoren/download/Vertrag Erstv.pdf, in duplicate per standard post or fax to the Workgroup for Electronic Publications (Arbeitsgruppe Elektronisches Publizieren, AGEP). Full information about "Creative Commons Licences" can be found at: https://edoc.hu-berlin.de/e autoren/download/info cc license.pdf.
 - Once the contract has been submitted, the author is to transfer the thesis to the AGEP using the upload-form at http://edoc.hu-berlin.de/e autoren/doku upload.php.
 - Once the work has been uploaded the AGEP will receive an automatic electronic notification that the work has been submitted. The AGEP will then verify that all formal criteria have been complied with and any necessary queries will then be followed up via the contact details provided by the author in the upload-form.
 - The work will be published on the edoc-server once all criteria have been fulfilled and the AGEP has obtained approval for the publication of the thesis from the LvB Chair of Statistics; the author will receive a message informing him/her when the process has been completed.
 - o Once a thesis has been published on the edoc-server it cannot be removed.
- The examination office will only be notified of the final grade of the thesis by the LvB Chair of Statistics when all of the required steps for the publication of the work on the edoc-server have been fully carried out.

Application Form for Masters or Bachelor Thesis

School of Business and Economics

Ladislaus von Bortkiewicz Chair of Statistics





This form is to be kept in the secretariat of the LvB Chair of Statistics. All signatures for submission dates can be obtained either in the secretariat or through the supervisor.

Sub	mission of thesis by author:				
Family Name:		Forename:			
Field of Study:		Student ID Nr:			
Tel:		E-Mail:			
Add	ress:	Future Employer:			
Submission of thesis:		Bachelor thesis	Master thesis		
Titl	e:				
Sta	rt Date:				
Sup	pervisor:				
I co	onfirm that:				
0	I have obtained and read the guidelines for writing a bachelor and master thesis in full.				
0	I consent to my thesis being publicly available on the Internet.				
0	I consent to subscribing to the ALUN	ent to subscribing to the ALUMNI email group.			
0	I consent to providing the secretariat with the address of my new employer or new position after completion of my studies, as soon as it is known.				
Date			Signature		
<u>Con</u>	firmation of qualifying requireme	ents and submission of th	esis:		
		Comment/Grade	Date	Signature	
0	Ten-page (pilot) paper submitted				
0	RDC Account set up				
0	Exam pass in "Multivariate Statistics" (Master/Diplom)				
Ο	Exam pass in "Statistical programming languages (Master/Diplom)"				
0	Presentation in "Privatissimum Statistics"				
0	Twelve points (Leistungspunkte) in Bachelor module(s)				
Ο	Online version submitted				