

CONTACT INFORMATION	Department of Statistics Spandauer St. 1 Humboldt University of Berlin Berlin 10178 Germany	<i>Phone:</i> +49 30 2093 5728 <i>Mobile:</i> +49 176 3041 4694(Germany)/+1 609 317 6491(US) <i>E-mail:</i> shih-kang.chao@hu-berlin.de <i>WWW:</i> Click here
RESEARCH INTERESTS	Nonparametric regression, high-dimensional regression and inference, functional data analysis, multiple testing	
EDUCATION	Humboldt University of Berlin , Berlin, Germany Ph.D. Candidate, Statistics, October 2011 (expected graduation date: July 2015) <ul style="list-style-type: none"> • Dissertation Topic: "Three essays in quantile regression" • Advisors: Wolfgang Härdle and Markus Reiss National Taiwan University , Taipei, Taiwan M.B.A. Financial Engineering, June, 2011 National Taiwan University , Taipei, Taiwan B.A. Finance; <i>Minor Mathematics</i> , June, 2008	
HONORS AND AWARDS	Scholarship of Berlin Doctoral Program in Economics and Management Science (BDPEMS) (three-year funding), Germany Honorable fellowship of the Phi Tau Phi Scholastic Honor Society (award top 3% student in class), Republic of China (Taiwan)	
ACADEMIC EXPERIENCE	Humboldt University of Berlin , Berlin, Germany <i>Graduate Student</i> October, 2011 - present Current Ph.D. research, Ph.D. level coursework, research/consulting projects, editing and contributing to the content of the book until publication: <i>Basics of Modern Mathematical Statistics: Exercises and Solutions</i> , Springer, 2014, and academic service: <ul style="list-style-type: none"> • Haindorf Seminar, Feb 7-10, 2014, Hejnice, Czech Republic • Haindorf Seminar, Feb 6-9, 2013, Hejnice, Czech Republic • International Research Training Group (IRTG) evaluation, Sep. 2012, Berlin, Germany. • Humboldt-Princeton Conference, Oct. 28-29, 2011, Berlin, Germany. <i>Instructor</i> April, 2013 - August, 2014 Co-taught graduate level courses for the Master of Statistics. Shared responsibility for lectures, exams, supervising term paper, and grades. <ul style="list-style-type: none"> • Statistical programming language, Summer 2014. • Statistical tools in finance and insurance, Winter 2013. • Multivariate analysis, Summer 2013. <i>Teaching Assistant</i> April, 2012 - February, 2013 Gave tutorial lectures of <i>Statistics</i> for undergraduate students in business and economics. Shared responsibility for grades.	

- PUBLICATIONS **Chao, S.-K.**, Härdle, W. and Wang, W. (2014), Quantile Regression in Risk Calibration, in Lee, C.-F., and Lee, J. C. (eds), *Handbook of Financial Econometrics and Statistics*, Springer, New York.
- WORKING PAPERS **Chao, S.-K.**, Proksch, K., Dette, H. and Härdle, W. (2014). Confidence corridors for nonparametric multivariate generalized quantile regression, Arxiv: arxiv.org/abs/1406.4421. Will be resubmitted to *Journal of Business and Economic Statistics*.
- Pham-Thu, H., **Chao, S.-K.** and Härdle, W. (2014). Credit Risk Calibration based on CDS Spreads *SFB 649 Discussion Paper 2014-026*. Submitted to Journal of Empirical Finance.
- PAPERS IN PREPARATION **Chao, S.-K.**, Härdle, W. and Yuan, M. (2014). Nuclear norm regularized large multiple quantile regression. Will be submitted in a few months.
- Chao, S.-K.** (2014). Simple bootstrap confidence bands for nonparametric quantile regression.
- Jirak, M. and **Chao, S.-K.** (2014). Multiple Kolmogorov-Smirnov test for high-dimensional time series data.
- Chao, S.-K.**, Ning, Y. and Liu, H. (2014). On high-dimensional predictive confidence intervals.
- Wang, B., **Chao, S.-K.**, Härdle, W., Sheen, J. and Trück, S. (2015). Asymmetries in demographic impact on subjective inflation forecast.
- CONFERENCE PRESENTATIONS Chao, S.-K., Härdle, W. and Yuan, M. (2015). Nuclear norm regularized large multiple quantile regression. *Humboldt-Aarhus-Xiamen (HAX) Workshop 2014*, Humboldt University Berlin, Berlin, Germany. October 6-8, 2014. <http://sfb649.wiwi.hu-berlin.de/fedc/events/hax2014>
- Chao, S.-K., Proksch, K., Dette, H. and Härdle, W. (2015). Confidence corridors for nonparametric multivariate generalized quantile regression.
- *3rd IMS Asia Pacific Rim Meeting*, Taipei, Taiwan, Jun. 29-Jul. 2, 2014. ims-aprm2014.tw
 - *SFB 823/649 Workshop "Methods and Challenges in Financial Risk Measurement"*, Druebeck, Germany, May 18-20, 2014. www.statistik.tu-dortmund.de/index.php?id=1998
- Chao, S.-K., Härdle, W. and Wang, W. (2014). Quantile Regression in Risk Calibration.
- *3rd XMU-Humboldt workshop*, Xiamen University, Xiamen, China. May, 2012.
 - *CRC 649 Conference*, Motzen, Germany. February, 2012.
- INVITED TALKS Student seminar, Department of Statistics and Biostatistics, *Rutgers University*, NJ, U.S.A., Nov. 2014.
- Seminar, Institute of Statistics, *National Tsing Hua University (NTHU)* and *National Chiao Tung University (NCTU)*, Hsinchu, Taiwan, Mar. 2014.
- Seminar, Department of Applied Math., *National Sun-Yat-sen University (NSYSU)*, Kaohsiung, Taiwan, Mar. 2014.
- Research seminar, chair: Prof. Enno Mammen, *Universität Mannheim*, Germany, Feb. 2014.
- RESEARCH VISITS Department of Statistics, University of Wisconsin-Madison, WI, U.S.A. Mar. 2015-Apr. 2015
- Department of Operational Research and Financial Engineering, Princeton University, NJ, U.S.A. Nov. 2014-Feb. 2015.

Ruhr University Bochum, Bochum, Germany, Aug. 2013.

REFEREEING AND REVIEWING WORKS Computational Statistics and Data Analysis, Statistics: a journal of theoretical and applied statistics.

PROFESSIONAL EXPERIENCE **Yuanta Securities**, Taipei, Taiwan
Summer researcher **July, 2010 - August, 2010**
Project in pricing and development of arbitrage strategies for binary options.

SKILLS Statistical Packages: R, Mathematica; some experience with Matlab.
Applications: L^AT_EX, Bloomberg, Datastream database, MS Office.
Language: Chinese Mandarin (native), English (fluent), German (some).

REFERENCES **Prof. Holger Dette**
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