FENGNAN GAO

Personal Details

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Professional Appointments

Assistant professor jointly appointed by the School of Data Science of Fudan Uni-Sep. 2016 versity and Shanghai Center for Mathematical Science

Education

PhD student of Prof. Dr. Aad van der Vaart Sep. 2012 -Aug. 2016 Leiden University, The Netherlands

Research Topics: Nonparametric Bayesian Statistics, High-dimensional Statistics in

Networks, Probabilistic Methods in Networks

Expected: Summer of 2016

Master of Science in Industrial and Applied Mathematics Sep. 2010 -

Sep. 2011 Department of Mathematics & Computer Science / EURANDOM

Eindhoven University of Technology, The Netherlands

Master of Science in Industrial Mathematics Aug. 2009 -

Aug. 2010 Department of Mathematics

Kaiserslautern University of Technology, Germany

Aggregate grade: Very good (Sehr Gut)

Sep. 2005 -Bachelor of Science in Statistics Jun. 2009

Department of Mathematics Nanjing University, China

Major GPA 88/100 Rank 4/43

Papers

Posterior contraction rates for deconvolution of Dirichlet-Lapalace mixtures 2015

Eletronical Journal of Statistics

http://projecteuclid.org/euclid.ejs/1457123508

On the Asymptotic Normality of Estimating the Affine Preferential Attachment Net-2015

work Models with Random Initial Degrees

Submitted to Stochastic Processes and their Applications

http://arxiv.org/abs/1603.02625

In preparation

On the Asymptotic Normality of Estimating Parametric Preferential Attachment 2016

On the Consistency of Estimating General Preferential Attachment functions 2015

Modeling and Inference of Networks of the Internet Movie Database with Preferen-2014

tial Attachment Model

Selected Talks & Presentations

Invited talk for the closing workshop of Dynamic Networks Dec. 2016

In the Issac Newton Institute for Mathematical Science, To be given in Cambridge, UK

Jul. 2016 World Congress in Probability and Statistics In Toronto, Canada

	Academic Activities
Sep. 2015	Statistics Mathematics and Applications In Fréjus, France
Jun. 2014	Institute of Mathematical Statistics Annual Meeting In Sydney, Australia
Mar. 2014	Spring School of Structural Inference in Statistics
	In Königs Wusterhausen, Germany
Nov. 2013	STATS IN PARIS STATISTICS & ECONOMETRICS OF NETWORKS
	In ENSAE, Paris, France
Jul. 2013	29th European Meeting of Statisticians In Budapest, Hungary
Jun. 2013	9th Conference on Bayesian Nonparametrics In Amsterdam, The Netherlands
Mar. 2013	Spring School of Structural Inference in Statistics In Bad Belzig, Germany
Sep. 2010	European Summer School in Industrial Mathematics In Milan, Italy

European Meeting of Statisticians In Amsterdam, The Netherlands

10th Conference on Bayesian Nonparametrics In Raleigh, NC, The USA

Invited talk in Shanghai Center for Mathematical Science In Shanghai, China

Master's Thesis

May 2016

Jul. 2015

Jun. 2015

Sep. 2011 Master thesis - Modeling and Inference of Internet Movie Database

http://alexandria.tue.nl/extral/afstversl/wsk-i/gao2011.pdf

Supervisors: Remco van der Hofstad & Rui Castro

We analyzed the dataset from the Internet Movie database (IMDb) with Python, MATLAB, SQL from a network perspective. We proposed a modified version of preferential attachment model for the evolution of the movie-actor network of the IMDb. With parameters estimated by statistical procedures, the simulation results resemble the reality. Using probabilistic inequalities and martingale arguments, we proved rigorously that, in the model described, the (movie) degree sequence converges to a explicit sequence as the network size goes to infinity.

Scholarships & Awards

2016	IMS travel award To facilitate travelling for the World Congress in Probability and Statistics
	to Toronto, Canada
2015	ISBA travel award To facilitate travelling for 10th BNP conference to Raleigh, NC, The USA
2005 - 2008	Three years of Renmin Scholarships from Nanjing University
	Awarded for excellent academic performance

Computer Skills

R, Python, Matlab, SQL, SAS, C++ Experienced user in LaTeX as a contributor in China TeX group

Hobbies

Photography, Amateur Road Biking, Rowing