

FENGNAN GAO

Personal Details

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Education

- Sep. 2012 - present PhD student of Prof. Dr. Aad van der Vaart
Leiden University, The Netherlands
Research Topics: *Nonparametric Bayesian Statistics, High-dimensional Statistics in Networks, Probabilistic Methods in Networks*
Expected: Summer of 2016
- Sep. 2010 - Sep. 2011 Master of Science in Industrial and Applied Mathematics
Department of Mathematics & Computer Science / EURANDOM
Eindhoven University of Technology, The Netherlands
- Aug. 2009 - Aug. 2010 Master of Science in Industrial Mathematics
Department of Mathematics
Kaiserslautern University of Technology, Germany
Aggregate grade: Very good (*Sehr Gut*)
- Sep. 2005 - Jun. 2009 Bachelor of Science in Statistics
Department of Mathematics
Nanjing University, China
Major GPA 88/100 Rank 4/43

Papers

- 2015 Posterior contraction rates for deconvolution of Dirichlet-Laplace mixtures
Eletronical Journal of Statistics
<http://projecteuclid.org/euclid.ejs/1457123508>
- 2015 On the Asymptotic Normality of Estimating the Affine Preferential Attachment Network Models with Random Initial Degrees
Submitted to Stochastic Processes and their Applications
<http://arxiv.org/abs/1603.02625>
In preparation
- 2016 On the Asymptotic Normality of Estimating Parametric Preferential Attachment functions
- 2015 On the Consistency of Estimating General Preferential Attachment functions
- 2014 Modeling and Inference of Networks of the Internet Movie Database with Preferential Attachment Model

Talks & Presentations

- Dec. 2016 Invited talk for the closing workshop of *Dynamic Networks*
In *the Issac Newton Institute for Mathematical Science*, To be given in *Cambridge, UK*
- Jul. 2016 World Congress in Probability and Statistics To be given in *Toronto, Canada*
- May 2016 Invited talk in Shanghai Center for Mathematical Science In *Shanghai, China*
- Jul. 2015 European Meeting of Statisticians In *Amsterdam, The Netherlands*
- Jun. 2015 10th Conference on Bayesian Nonparametrics In *Raleigh, NC, The USA*

Academic Activities

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

Master Thesis

Sep. 2011	Master thesis - Modeling and Inference of Internet Movie Database http://alexandria.tue.nl/extra1/afstvers1/wsk-i/gao2011.pdf Supervisors: REMCO VAN DER HOFSTAD & RUI CASTRO <i>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.</i>
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Scholarships & Awards

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

Computer Skills

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

Hobbies

Photography, Amateur Road Biking, Rowing