

Hamed Haseli Mashhadi

PhD in Statistics

A hard-working, determined, organised, and creative researcher who is capable of working independently and as part of a team.

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Key features and attributes

- Submitted doctoral thesis in less than three years.
- Fully funded student during the PhD and Bachelor programs.
- I have been awarded five months off in the compulsory military service for performing a research on face recognition methods.
- Completed and compiled three extensive R packages during doctoral program.
- Confident in understanding and implementing *both* Bayesian and frequentists methods in statistics.
- I have collaborated a book in statistics and forecasting which contains both qualitative and quantitative methods.
- I have experienced in presenting statistical concepts in conferences, meetings and the research missions.
- I am a fast and independent learner with a keen eye for detail and can-do-it attitude.

Education & Research

- 2013- 2016 (Scholarship)** PhD in statistics (Brunel University London). I have worked on penalised inference in the time-dependent framework
- See paper on arXiv ([link](#))
 - See the corresponding R package ([link](#))
- Bayesian inference for count/discrete data,
- See Paper on arXiv ([link](#))
 - See the corresponding R package ([link](#))
- Novel regularisation methods
- See paper on arXiv ([link](#))
 - See the corresponding R package ([link](#))
- ([Link](#)) to the contents of my doctoral thesis.
- 2008 -2010** Masters of statistics (Azad University of Tehran)
Modules included: Inferential statistics, Probability, Time series and Multivariate data analysis. **Dissertation on active voice recognition using [Hidden Markov Models](#).**
- 2004-2007 (Scholarship)** International University of Qazvin, Iran
Modules included: Mathematical analysis, Probability, Stochastic process, operational research, Design of experiments (I & II), Linear & generalised linear models, Time series, Categorical data analysis, Multivariate data analysis and Non-parametric methods. **Dissertation on [handwriting recognition](#).**

Research Projects

- 2016** Joint research with Professor [Ernst Wit](#) on developing a model selection criterion for high-dimensional penalised models at [University of Groningen](#), Netherlands
- 2009-2010** Collaborated in writing a time series book in statistical methods in forecasting (Book “Forecasting Methods, 491 pages, May 2011”) ([link](#) to ABRAR Institute)
- 2009** Undertook research on the ranking of all libraries in Tehran municipality, sponsored by Tehran municipality

Conferences

- 2015** Research Students conference 2015, University of Leeds (August 2015) ([link](#))
- 2014** Statisticians meeting, University of Bristol (June 2014)

Courses & workshops attended

- Course: Convex optimisations (June 2014) (Special guest, [Prof. Stephen Boyd](#) Stanford University, US)
- Course: Complex system dynamics (January-February 2014)
- Course: Applied Bayesian methods (January-February 2014)
- Course: Factor models in time series (November 2014)
- Meeting: Statistical inference of networks (May 2014)
- Workshop: Bayesian computation (February 2014)
- Workshop: Signal processing (November 2014)
- Workshop: Astrostatistics workshop, RSS London, (December 2014)
- Workshop: Nonlinear time series (June 2015) (Presented by [Prof Nicholas Stergiou](#) University of Nebraska, US)

Analysis & Research

- Doctoral thesis on high-dimensional time series regression models
- Completed a research on face recognition systems based on robust PCA (with a simulation using R) (2012).
- Completed MSc dissertation on AVR (Active Voice Recognition) using Hidden Markov Models.
- Developed a semi-automatic system to rank libraries in Tehran (2009).
- Undertook a short research on Speech Recognition Systems (SRS) (2009).
- Wrote a short report on Handwriting Recognition Systems (HRS) (2008).
- Wrote a short essay on how the theory of Fuzzy numbers can explain the perception of the real numbers by humans (in *Persian*).
- Completed different analytical coursework projects during my study at the university.

Team player & Membership

- Member of the Iranian Science Association of Information Management (ISAIM) (2012 - present) ([Link](#) to the website)
- Member of the scientific core of the statistical society, and have been responsible for its IT support (2004-2005)

- Member of the team that completed a survey at “PAND” company (2006)

Research interest

I deeply enjoy research and application of statistical methods including both frequentist and Bayesian methods for high-dimensional models/data with the application in biGdata, machine-learning, modern statistics and genetics. I highly enjoy scientific programming and developing algorithms in particular with R.

IT Skill

Highly experienced in:

- Programming in **R** and **S+** ([link](#) for the first R package or [link](#) and [link](#) for more. See more on [my page](#))
- **Latex** ([link](#) to a presentation template by me and [Pawełkupkowski](#))
- Programming in **Visual Basic 6** ([link](#) to my business page or [link](#))
- Using **SPSS** ([link](#) to the book - in *Persian*)
- I have written computer programs for several years (search Hamed.H.M on [this](#) website)
- Developed a software called Picture2Text (2006)
- Developed a security software called USB_Terminator ([Download](#) – Not updated since 2010) (2008-2010)
- Designed a simple computer hardware that can switch on or off a device (2006)

Familiar with:

- Statistical software such as SAS, Minitab
- PHP, SQL, HTML, CSS and JavaScript ([link](#) or [link](#) to some sample websites)
- Pascal and Basic programming; (Microsoft Office (Excel, Word, PowerPoint, and using the internet for research purposes)
- Microsoft operation systems (see, for example, [link](#) to invigilation clock and [time stamping](#) software)

Employment History

Dec 2014- Jan 2015

Part-time computer assistant at Brunel University London ([link](#) to reference)

November 2012-May 2013

Statistician at the National Iranian Oil Company (NIOC) ([link](#) to the website)

February 2010 - May 2011

Collaborated in writing a time series book for forecasting some violent situations in societies ([link](#) to ABRAR institute)

April 2009 - June 2009

Part-time analyst in Tehran municipality and undertook research on the ranking of all libraries in Tehran ([link](#) to the company website).

September 2006 - January 2007

Part-time tutor at International University of Qazvin, Iran ([IKIU](#)), and taught SPSS and Probability.

February 2006 - March 2006

Fixed-term contract Statistician – “PAND” (one of the largest national scale producing companies) ([Link](#) to company website).

I was a member of the team that completed a survey (in Tehran) about people’s level of satisfaction of PAND and its productions. We conducted the statistical analysis of the information that was aimed to be used for the design of a new generation of scales and accessories.

July 1998 – September 1998

School summer break: I worked as a computer repair person and shop-assistant.

July 1996 - September 1996

School summer break: I worked as a mechanic (bicycle and motorbike repair person).

Additional information

Co-ordinator

- I had the responsibility of coordinating a group of fellow students who wanted to improve their knowledge of statistics and physics (2006).

Communicator

- I have been working as a software tutor since 2006 and have the ability to pass messages across to people of different ages and abilities.
- I lectured some general concepts of statistics to my colleagues (2006).

Training courses completed

- Sign language course (to be able to communicate with people with hearing impairment).

Others

- I was a member of the university chess club (2002).
- See me [here](#)

Personal interests

I enjoy computer programming, designing electrical instruments, reading history books and writing short stories (see [here](#) for a short story – *Persian* ([Google translate](#))). Swimming, mountaineering, cycling, ping-pong, chess and photography ([see some examples](#)) are my favourite activities.