BIOGRAPHICAL

Status: Assistant Professor of Statistics at Shiraz University

CEO of Scientific Data Analysis Team (SDAT)

Senior Researcher at Neuroimaging and Analysis Group (NIAG)

Date and place of birth: April 1, 1986; Shiraz, Iran.

Marital Status : Married, one child.

CONTACT
INFORMATION

Address: Department of Statistics, College of Sciences, Shiraz University, Shiraz, Iran.

Email: mnajibi@shirazu.ac.ir and mor.najibi@gmail.com

Homepage: *www.smnajibi.ir*

RESEARCH
INTERESTS

Statistical Shape Analysis, Machine learning, Non-parametric Modeling, Directional Statistics, Bioinformatics.

EDUCATION

Ph.D. of Statistics   Sep. 2010 - Aug. 2015

Department of Statistics, Faculty of Mathematical sciences, Shahid Beheshti University, Tehran, Iran.
- **T**hesis Topic: *Performance Improvement of Protein Alignment using Directional Statistics*
- **S**upervisor: Faghihi M. R.
- **A**dvisors: Golalizadeh M. and Arab S.

Master in Statistics   Sep. 2008 - Sep. 2010

Department of Statistics, Faculty of Mathematical Sciences, Tarbiat Modares University, Tehran, Iran. Ranked 1st with GPA: 17.69/20.
- **T**hesis Topic: *On Protein Alignment via Statistical Shape Analysis*
- **S**upervisor: Golalizadeh M.
- Advisor: Pezeshk H.

Bachelor in Statistics   Sep. 2004 - Sep. 2008

Department of Statistics, Faculty of Sciences, Persian Gulf University, Boushehr, Iran. Ranked 1st with GPA: 17.72/20.
- **T**hesis Topic: *Multivariate Regression and Its Analysis by SAS Software*
- **S**upervisor: Dehghanmonfared M. E.
- Advisor: Lak F.

ACADEMIC POSITIONS	**Assistant Professor**	Sep. 2017 - Present

Assistant Professor   Sep. 2017 - Present
College of Science, Department of Statistics
Shiraz University
Shiraz, Iran

Assistant Professor   Aug. 2015 - Sep. 2017
Department of Statistics, Faculty of Science
Persian Gulf University
Busher, Iran

RESEARCH POSITIONS

Chief Executive Officer   Sep. 2015 - Present
Scientific Data Analysis Team (SDAT),
No.15 13th West Street, North Sarrafan
Apt. No. 1, Saadat Abad, Tehran, Iran

Senior Researcher of Neuro-Statistics   Oct. 2016 - Present
Neuroimaging and Analysis Group(NIAG),
Medical Imaging Center, Imam Khomeini Hospital
Tehran University of Medical Sciences, Tehran, Iran

Visting Research Scholar   Mar. 2014 - Sep 2014
Department of Mathematics, Computer Sciences and Statistics,
Marquette University, Milwaukee, WI, US

Research Assistant   Jan. 2010 - Feb 2014
Department of Statistics,
Shahid Beheshti University, Tehran, Iran
Supervisor: Faghihi M.R.

Non-Resident Researcher   Sep. 2009 - Dec. 2011
Executive of Research Project entitled
"Feasibility of implementation of telephone survey in Iran"
Statistical Research and Training Center,
Tehran, Iran

ADVISOR EXPERIENCES

Special Advisor to the President of University   May. 2017 - Present
Advising in Statistical Evaluation of Strategies,
Performance of Human Resource, and Strategic Planning
President Department, Persian Gulf University, Busher, Iran.

Ph.D. Student Advisor: Masoume Rostampour   Jan. 2017 - Present
Thesis Title: Design and implementation of density imaging protocol and
dispersion of opacity for patients with suspected topical corneal anomalies
(FCD) on functional magnetic resonance imaging (fMRI),
Tehran University of Medical Sciences, Tehran, Iran.

Master Student Advisor: Maryam Shames   Sep. 2016 - Sep. 2017
Thesis Title: The Effect of Outliers on Singular Spectrum Analysis (SSA).
Persian Gulf University, Bushehr, Iran.

JOURNAL
ARTICLES

1. **Najibi S. M.**, M. Maadooliat, L. Zhou, Huang J. Z. and Gao X. (2017). Protein Structure Classification and Loop Modeling Using Multiple Ramachandran Distributions, *Computational and Structural Biotechnology Journal*, **15**, 243-254 DOI: 10.1016/j.csbj.2017.01.011.

2. M. Maadooliat, L. Zhou, **Najibi S. M.**, Huang J. Z. and Gao X. (2015). Collective Estimation of Multiple Bivariate Density Functions with Application to Angular-Sampling-Based Protein Structure Prediction, *Journal of American Statistical Association (JASA)*, **111** (513), 43-56, DOI: 10.1080/01621459.2015.1099535.

3. **Najibi S. M.**, Faghihi M. R., Golalizadeh M., Arab S. (2015). Bayesian Alignment of Proteins Using Delaunay Tetrahedralization. *Journal of Applied Statistics*, **42** (5),1064-1079, DOI: 10.1080/02664763.2014.995605.

4. Hamedani, G.G., Ahsanullah, M., **Najibi, S.M.** (2015), Characterizations of Levy Distribution via Sub-Independence of the random variables and Truncated Moments, *Pakistan Journal of Statistics*, **31** (4), 417-425.

5. **Najibi, S. M.**, Golalizadeh, M., Faghihi M.R. (2015). Bayesian Modeling of Protein Alignment, *Journal of Iranian Statistical Society*, **9**(2), 253-267, in Persian.

6. **Najibi S. M.**, Javadi M., Noorini N., Mousakazemi, N. and Hemmati M. (2012). Using Telephone in Surveys, *Iranian Journal of Official Statistics Studies*, **23** (2), 159–178, in Persian.

7. **Najibi S. M.**, Golalizadeh M. (2011). Statistical Analysis of directed wind angles. *Neda Journal of Iranian Statistics Society*, **8** (2), 40–49, in Persian.

8. Tazikeh N., **Najibi S. M.** (2010). Functions Family of apply in Splus: Simplicity and Speeding up the execution. *Neda Journal of Iranian Statistics Society*, **8** (1), 44–50, in Persian.

REFEREED
CONFERENCE
PAPERS

1. **Najibi S. M.**, Batouli S.A.H. Strategies for Application of Directional Statistics in Probabilistic Machine Learning. *Modern Method in Insurance Pricing and Industrial Statistics*, Bu-Ali Sina University, Hamedan, Iran, 2017.

2. Saleh E., Zare-Sadeghi A., **Najibi S. M.**, Applications of Statistical Machine Learning in Neuroimaging. *Modern Method in Insurance Pricing and Industrial Statistics*, Bu-Ali Sina University, Hamedan, Iran, 2017.

3. **Najibi S. M.**, Collective Density Based Clustering with application to Bioinformatics. *The 10th Conference Statistical PNU* , University of Payamenoor, Shiraz, 2017.

4. **Najibi S. M.**, Faghihi M. R., Golalizadeh M., Arab S., Maadooliat M., Bayesian Alignment of Proteins Using Delaunay Tetrahedralization. *Second International Conference on Mathematics and Statistics*, American University of Sharjah, Shajah, UAE, 2015.

5. **Najibi S.M.**, Maadooliat M., Faghihi M.R., *Nonparametric Joint Estimation of Multiple Bivariate Densities of Protein Backbone Angles Using Spherical Spline, Joint Statistical Meeting*, Boston, MA, US, 2014.

6. **Najibi S.M.**, Javadi M., Noorini N., Mousakazemi, N. and Hemmati M., Feasibility of implementation of telephone survey in Iran, *11th conference of Statatics*, Tehran, Iran, in Persian, 2012.

7. **Najibi S.M.** and Golalizadeh M., Bayesian Matching in structural alignment of protein, *8th Seminar on Probability and Stochastic Processes*, Rasht, Gilan, Iran, in Persian, 2011.

8. Golalizadeh M. and **Najibi S.M.**, On Matching in Structural Bioinformatics via Statistical Shape Analysis, *The 3rd conference and workshop on Mathematic Chemistry*, Tarbiat Modares University, Tehran, Iran, 2010.

9. **Najibi S.M.** and Golalizadeh M., Statistical Analysis of directed wind angles, *10th conference of Statistics*, Tabriz university, Tabriz, in Persian, 2010.

10. Goalizadeh M. and **Najibi S.M.**, On Statistical Shape Analysis in Bioinformatics, *5th Conference of Statistics, University of Payamnoor, Toiserkan, appeared in conference proceeding, pp. 237-239, in Persian, 2010.*

11. **Najibi S.M.** *and Goalizadeh M., Review the History of Statistical Shape Analysis, 5th Conference of Statistics, University of Payamenoor, Toiserkan, appeared in conference proceeding, pp. 411-413, in Persian, 2010.*

12. **Najibi S.M.***, Mazarei H., Hosseinpouri M., Stochastic Processes on Spheres, 7th Seminar on Probability and Stochastic Processes, Isfahan University of Technology, Isfahan, appeared in conference proceeding, 103, in Persian, 2009.*

13. **Najibi S.M.***, Tazykeh N. and Qytuly A., Framework, Environment and Scope in R and Splus, 4th Conference of Statistics, University of Payamenoor, Tehran, appeared in conference proceeding (extended abstract), pp.10-12, in Persian, 2009.*

14. *Tazykeh N.,* **Najibi S.M.***, Movaghari H., Functions Family of applyin Splus: Simplicity and Speeding up the execution, 4th Conference of Statistics , University of Payamenoor, Tehran, appeared in conference proceeding (extended abstract), pp.17-20, in Persian, 2009.*

Teaching Experience	**Assistant Professor**	Sep. 2017 - present

Shiraz University,
Shiraz, Iran
Teaching:
- Statistics and probability II for Geography
- Probability and Mathematics for Engineering sciences
- Advanced Statistical Computing Lab

Assistant Professor   Aug. 2015 - Sep. 2017

Persian Gulf University,

Busher, Iran

Teaching:

- Statistical computing with R
- Simulation methods
- Statistics and probability I and II
- Probability and Mathematics for Engineering sciences
- Introduction to Matrices and Linear Algebra

Workshop Lecturer   March 2016

Persian Gulf University, Busher, Iran

- Application of data mining in Biology (clustering and classification techniques)
- The basic of R for researchers

Workshop Lecturer   March 2016

Shahid Beheshti University, Tehran, Iran

- Advanced Statistical method in Cognitive Science Workshop Series, Movement 1-3, Website: sdat.ir/statcog95

Lecturer   Feb. 2010 - Feb. 2014

Shahid Beheshti University,

Tehran, Iran

Teaching:

- Statistics and probability II for Computer Sciences students
- Basic of probability for Mathematics students
- Probability I for Mathematics students
- Probability II for Computer Sciences students
- Statistical software for Statistics students
- Probability and Mathematics for Engineering sciences students
- Descriptive Statistics for Psychology students

Honors &
Awards

13th National Scientific Olympiad for Master Students

- Ranked 2nd among Iranian student of statistics   Apr. 2008
  in six & seven geographic zone of Iran,
  Shiraz university, Shiraz, Iran
- Ranked 5nd among all Iranian student of statistics,   Jun. 2008
  Shahid Beheshti University, Tehran, Iran.

Outstanding Graduate Award

- Ranked 1st among B.Sc. students in statistics   Sep. 2008
  with GPA of 17.72/20,
  Persian Gulf University, Boushehr, Iran
- Ranked 1st among MSc. students in statistics   Sep. 2008
  with GPA of 17.69/20,
  Tarbiat Modares University, Tehran, Iran.

Talk & Presentations	• Non-Parametric Joint Estimation of Neighbor-Dependent Ramachandran Distributions

- MSCS Department Colloquium, Marquette U.; Milwaukee, WI, US, Sep 2014
- IPM - Institute for Research in Fundamental Sciences,Tehran, Iran, Oct. 2014
- Monthly Seminar at Department of Statistics, Shahid Beheshti University, Tehran, Iran, Oct. 2014

- *Statistical Bioinformatics via Statistical Shape Analysis*, Journal Club Meeting, Apr. 2014, Marquette University, Milwaukee, WI, US.
- *Directional Statistics in Bioinformatics*, Weekly seminar, Jun. 2010, Tarbiat Modares University, Tehran, Iran
- *Could Statistical Shape Analysis Play a Role in Bioinformatics?*, joint work with Dr. Goalizadeh M., Monthly seminar, Feb.2010, IPM - Institute for Research in Fundamental Sciences, Tehran, Iran.

Workshop Attendance

- *Risk Management with Big Data and Applications in Industry* Workshop by David Rios Insua in Modern Method in Insurance Pricing and Industrial Statistics conference, Bu-Ali Sina University, Hamedan, Iran, 4th Sep. 2017.
- *IPM - NUS Workshops on Bioinformatics and Computer Science*, April 2011,IPM, Tehran, Iran
- *The 1st workshop in Phylogeny tree, April 2010, IPM, Zirab, Mazandaran, Iran*

Computer Skill

- Statistical Programming: R (Expert), Python, Matlab(Intermediate)
- Web Programming (intermediate): HTML, Php, and SQL.
- Statistical and Mathematics Software Abilities: SPSS, AMOS, Minitab, Excel, Maple, Mathematica.
- Typesetting: Latex , Xetex and Xepersian.
- Applications: Microsoft Office, Photoshop, and FrontPage.

Professional Memberships

- Regular member of International Statistical Institute (ISI) 2016 - present
- Permanent member of Iranian Statistical Society   2006 - present
- Member of Iranian Mathematical Society   2008 - 2010

Community Service

Member of executive committee of Conference Jan. 2017 - Sep. 2017
- Modern Method in Insurance Pricing and Industrial Statistics, Bu-Ali Sina University, Hamedan, Iran.

Administrator of cluster server of SBU   Sep. 2010 - Sep. 2015
Shahid Beheshti University,
Tehran, Iran

Editor of website   Sep. 2008 - Sep. 2012
the official website of Iranian Statistical Society,
Tehran, Iran.

Member of executive committee   2009 - 2010

Tarbiat Modares University,

Tehran, Iran.

- The Third conference and workshop on Mathematic Chemistry, Feb. 2010
- 33th Mathematics Students Contest in Iran, Aug. 2009

Persian Gulf University   Sep. 2006 - Sep. 2008

- The head of Student society of Statistics
- Director of The Scientific Student Journal
- Redactor of Student Society of Statistics Newsletter

Blogging   2007 - 2012

blogging at Danesh Amari,

a weblog for statistic enthusiastic

in Persian language.

Last Update: Sep. 2017