Curriculum Vitae

Personal details

Name: Dr. Saeid Pooladsaz

Date of Birth: 13.01.1961

Current address: Department of Mathematical Sciences, Isfahan University of Technology, Isfahan, 84156-83111, Iran.

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Education

- **B.Sc.:** Statistics, 1986, Shiraz University, Iran.
- **M.Sc.:** Pure Statistics, 1989, Shiraz University, Iran.

  Thesis title: "*Spacing in Uniform and Exponential distributions*"

  Supervisor: Professor Javad Behboodian
- **Ph.D.:** Statistics (Design of Experiments), 2002, University of Sheffield, UK.

  Thesis title: "*Efficient and Optimal Designs for Block-Treatment and Interference Models when Observations are correlated*"

  Supervisor: Professor Richard J. Martin
- **Post-doctoral:** Bayesian Statistics, 2004, University of Sheffield, UK.

  Project title: "The methods to predict the burst rates of water distribution pipes"

  Supervisor: Professor Antony O'Hagan

Work experiences

- **1989 – 1997** Full-time lecturer of Statistics, Department of Mathematical Science, Isfahan University of Technology, Isfahan, Iran.
- **2001 – 2004** Full-time Research Associate of Statistics, Probability and Statistics Department, Sheffield University, Sheffield, UK
- **2004 – 2006** Full-time Assistant Professor of Statistics, Department of Mathematical Science, Isfahan University of Technology, Isfahan, Iran.
- **2006 – 2010** Deputy of Education, Department of Mathematical Science, Isfahan University of Technology, Isfahan, Iran.
- **2010 – 2013** Head of Department, Department of Mathematical Science, Isfahan University of Technology, Isfahan, Iran.
- **2013 – now** Full-time Assistant Professor of Statistics, Department of Mathematical Science, Isfahan University of Technology, Isfahan, Iran.

Publications

- Pooladsaz S. (1998). An algorithm for constructing optimal designs when observations are correlated. *COMPSTATA 1998, Proceedings in Computational Statistics,* 201-202.
- Kunert J., Martin R. J. and Pooladsaz S. (2002). Optimal designs under two related models for interference. *Research Report No*. **520/02**, *Probability and Statistics Department, University of Sheffield, UK*.
- Pooladsaz S. and Martin R. J. (2002). Optimal extended complete block designs for dependent observations. *Research Report No*. **529/02**, *Probability and Statistics Department, University of Sheffield, UK*.
- Kunert J., Martin R. J. and Pooladsaz S. (2003). Optimal designs under two related models for interference. *Metrika*, **57** (2), 137 - 143.
- Pooladsaz S. and Martin R. J. (2005). Optimal extended complete block designs for dependent observations. *Metrika*, **61** (2), 185 – 197.
- Boxall J. B., O'Hagan A., Pooladsaz S., Saul A. J. and Unwin D. M. (2004). Estimation of burst rates in water distribution mains. *Research Report No*. **546/0**4, *Probability and Statistics Department, University of Sheffield, UK*.
- Boxall J. B., O'Hagan A., Pooladsaz S., Saul A. J. and Unwin D. M. (2005). Pipe level estimation of burst rates in water distribution mains. In *8th Computing and Control for the Water Industry (CCWI) Water Management for the 21st Century, Exeter, September*.
- Boxall J. B., O'Hagan A., Pooladsaz S., Saul A. J. and Unwin D. M. (2007). Estimation of burst rates in water distribution mains. *Water Management* **160**, 73-82.
- Doosti M. and Pooladsaz S. (2012). E-Optimal Block Design for Comparing Treatments with a Control and Correlated Observations. *J. of Statistical Sciences*, **5(2)**, 179-188.
- Delshad F. and Pooladsaz S.(2017). Optimal Circular Neighbour-Balanced Designs. *J. of Statistical Sciences*, **10(2)**, 261-280.
- Khodsiani R. and Pooladsaz S. (2017). Universal optimal block designs under hub correlation structure. *J. of Statistics and Probability Letters*, **129**, 387-392.
- Pooladsaz S. and Doosti M. (2018). An algorithm for finding efficient test-control block designs with correlated errors. *Preprint submitted to Computational Statistics.*
- Doosti M. and Pooladsaz S. (2018). E-optimal test-control block designs with unequal block sizes and various correlation structures. Draft.
- Khodsiani R. and Pooladsaz S. (2017). Optimality of block designs under hub correlation structure with two parameters. Draft.

Conference Presentations

- Pooladsaz S. (1998). Efficient Experimental Designs under Dependence. *Research Statistics Postgraduate Students Conference, March* 31 – *April 2,* 1998*, University of Lancaster, UK.*
- Pooladsaz S. (1998). An Algorithm for Constructing Optimal Designs when Observations are correlated. *The* 13th *COMPSTAT Conference, August* 24 – 28, 1998*, University of Bristol, UK.*
- Pooladsaz S. (2000). Optimal Generalized Binary Block Designs with Block Size k under AR(1). Iranian Researchers Conference in Europe, IR*CE* 2000*, May* 21, 2000*, Manchester, UK*.
- Pooladsaz S. (2000). Optimal Generalized Binary Block Designs for AR(1) Dependence Structure. *Probability and Statistics Department, University of Sheffield, UK*.
- O'Hagan A., Pooladsaz S., Saul A. J., Boxall J. B. and Unwin D. (2004). Predicting mains failure. *UK Water Industry Research meeting*, *May* 14 2004, *London*, *UK*
- O'Hagan A., Pooladsaz S., Saul A. J. and Boxall J. B. (2004). Uncertainty in deterministic models. *International Society for Bayesian Analysis*, ISBA, May 23–27, 2004, Chile.
- Boxall J. B., O'Hagan A., Pooladsaz S., Saul A. J. and Unwin D. M. (2005). Pipe level estimation of burst rates in water distribution mains. *Eighth international conference on Computing and Control in the Water Industry, CCIW* 2005, 5 - 7 September 2005, *University of Exeter, UK*.
- Pooladsaz S. (2006*).* Optimality of block designs for correlated data. *8th Iranian Statistical Conference, 22 – 24 August 2006, Shiraz University, Iran*
- Pooladsaz S. and Doosti M. (2012). A new algorithm for finding optimal test-control block designs with correlated observations. *11th Iranian Statistical Conference, August 28 – 30, Iran University of Science and Technology,Tehran, Iran.*
- Doosti M. and Pooladsaz S. (2016). Robust A_{tc} optimal test control block designs with correlated observations. *13th Iranian Statistical Conference, August 24 – 26, Kerman University, Iran.*
- Khodsiani R. and Pooladsaz S. (2017). Optimality of incomplete block designs under hub correlation. *48th Annual Iranian Mathematics Conference, August 22 – 25, Bu-Ali Sina University, Hamedan , Iran*
- Doosti M. and Pooladsaz S. (2018). E-optimal test-control block designs with correlated errors. 49th *Annual Iranian Mathematics Conference, August 22 – 25, Iran University of Science and Technology, Tehran, Iran.*

Teaching

I have taught the following courses at Isfahan University of Technology:

PhD Courses:

1. Advanced Statistical Inference
2. Advanced Statistical Design of Experiments
3. Special topics

MSc Courses:

1. Statistical Inference I
2. Statistical Inference II
3. Advanced Experimental Design
4. Advanced Statistics for Engineering

BSc Courses:

1. Elementary Probability and Statistics
2. Statistical Methods
3. Design and Analysis of Experiment I
4. Design and Analysis of Experiment II
5. Probability I
6. Probability II
7. Mathematical Statistics I
8. Mathematical Statistics II
9. Introduction to Decision Theory
10. Non-Parametric Statistics
11. Probability and Statistics for Engineering
12. Statistics for Engineering

Statistical Programming

I am teaching S-Plus (or R) to my students for presenting their projects. I have essentially used the software MATLAB and WINBUGS during my PhD and Postdoctoral.

Research interests

- Design and Analysis of Experiments
- Statistical Inference
- Bayesian Statistics
- Algorithms and Computer Programming