

Saharon ROSSET, Ph.D.

CURRICULUM VITAE

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Date and place of birth: 26/6/1969 Evanston, IL
Date of immigration to Israel: Dec. 1970
ZAHAL (Israeli) Military Service: 1987-1992
Marital status: Married+2
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EDUCATION

1992–1994 B.Sc., Mathematics
Tel Aviv University
Date of award: 1995 (Summa Cum Laude)
1995–1999 MSc., Statistics
Tel Aviv University
Date of award: 2000 (Summa Cum Laude)
Title of Masters Thesis: *Ranking: Methods for Flexible Evaluation
and Efficient Comparison of Classification Performance*
Name of Supervisor: Professor David Steinberg
1999–2003 Ph.D., Statistics
Stanford University, Stanford, CA
Date of award: 2003
Title of Doctoral Dissertation: *Topics in Regularization and Boosting*
Name of Supervisors: Professors Jerome Friedman and Trevor Hastie

ACADEMIC AND PROFESSIONAL EXPERIENCE

1993–1997 Mathematical programmer, Ron Soferman Image Processing Ltd.,
Israel
Developing image processing and fax encryption software.

- 1997–2003 Data Mining researcher/consultant, Amdocs Ltd (USA & Israel).
Developing data mining solutions for the telecommunications industry.
- 1999–2001 Research assistant, Statistics Dept., Stanford University, CA.
Data analysis project funded by Blue Martini Ltd.
- 2001–2003 Teaching assistant, Statistics Dept., Stanford University, CA.
- 2003–2007 Research Staff Member, Mathematical Sciences Dept., IBM T.J. Watson Research Center, NY.
Developing algorithmic and statistical solutions to problems in business and scientific domains.
- 2007–2010 Senior Lecturer, Dept. of Statistics and Operations Research, Tel Aviv University, Israel.
- 2010–present Associate Professor, Dept. of Statistics and Operations Research, Tel Aviv University, Israel.

OTHER ACTIVITIES

- 2005–2006 Participated in Genographic project’s media campaign: interviewed for dozens of media outlets worldwide.
- 2006–2007 Chair of IBM Research’s Knowledge Discovery PIC (Professional Interest Community).
- From Jun. 2006 Action Editor for Journal of Machine Learning Research.
- From Apr. 2008 Associate Editor for Technometrics.
- 2008–2011 Statistics seminar organizer at Tel Aviv University.
- Jun. 2009 Program organizer for the 2009 meeting of the Israeli Statistical Association.
- 2011,2012 Senior program committee member for KDD-2011, the 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining.
- May 2012 Program chair for the 2012 meeting of the Israeli Statistical Association.
- May 2012 Organizing committee chair for the 2012 meeting of the Safra Bioinformatics center at TAU.

INVITED TALKS (since 2008)

- Jun. 2008 Invited talk at IBM Haifa Research Center Machine Learning day, Haifa, Israel.
- Jun. 2008 Invited talk at Israeli Statistical Association meeting, Herzeliya, Israel.
- Nov. 2008 Invited talk at inaugural meeting of the Israeli branch of the European Network for Business and Industrial Statistics (IsENBIS), Tel Aviv, Israel.
- Jun. 2009 Invited tutorial titled *Predictive Modeling in the Wild* given at Fifteenth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining, KDD-09, Paris, France.
(with Claudia Perlich)
- Oct. 2009 Invited talk at CIBB-09, the Sixth Intl. Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics.
- Oct. 2009 Invited talk at TIGEM, Napoli, Italy.
- May 2010 Invited keynote talk at Israeli Statistical Association meeting 2010.
- Dec. 2010 Invited talk at workshop titled *Practical Applications of Sparse Modeling: Open Issues and New Directions* at the Neural Information Processing System conference in Whistler, Canada.
- Oct. 2011 Invited talk at Google 2011 day: Machine learning for massive datasets.
- Dec. 2011 Invited talk at Technion BKU Workshop on Genetic variations in Human populations.
- May 2011 Invited talk at IBM Haifa Research Center Clinical Genomic Analysis workshop 2012.
- Jul. 2012 Invited talk at “Best of Annals of Applied Statistics” session at the Joint Statistical Meetings 2012, San Diego.

OTHER ACADEMIC SEMINARS AND COLLOQUIA (since 2008)

- Sep. 2008 Talk at Workshop on the Future of Theoretical Statistics, Banff, Canada.
- Mar. 2008 Industrial Engineering seminar at Ben Gurion University, Beer Sheva, Israel.
- Nov. 2008 Statistics Seminar at Haifa University, Israel.
- Oct. 2009 Statistics Seminar at Tel Aviv University, Israel.

Jan. 2010	Statistics Seminar at Hebrew University, Israel.
Apr. 2010	Statistics Seminar at Technion, Israel.
May 2010	School of Mathematical Sciences Colloquium at Tel Aviv University, Israel.
May 2011	School of Computer Science Colloquium at Tel Aviv University, Israel.
Jul. 2012	Statistics Seminar at Stanford University.
Jul. 2012	Computational Biology seminar at UCLA.

GRANTS, ACADEMIC AND PROFESSIONAL AWARDS

1999	Nimrod Lapid award for best MSc thesis in Statistics at Tel Aviv university.
1999	Arik Peretz award for best MSc thesis with applications in Biostatistics.
1999	Headed team that won the knowledge discovery task of KDD-Cup 99, the yearly international data mining competition.
2000	Advised team that won two of five sub-competitions at KDD-Cup 00.
2002	IBM Graduate Fellow, Frontiers of Engineering meeting, September 02, Irvine, CA.
2002	Primary author of best application paper award winner at KDD-2002.
2005–2008	NSF grant DMS-0505432 for \$115,597 (co-PI with Ji Zhu of Univ. of Michigan).
2006	IBM Research Outstanding Technical Achievement Award.
2007	IBM Research Outstanding Technical Achievement Award.
2007–2011	EU FP7 International Reintegration Grant for 100,000 Euros (sole PI).
2007	Headed team that won one of two sub-competitions at KDD-Cup 07.
2008	Participated on team that won both sub-competitions at KDD-Cup 08.
2008	Participated on team that won one of two sub-competitions at INFORMS 2008 data mining challenge.
2008–2011	Alon Fellowship for young faculty.

2009–2012	ISF grant 1227/09 for \$95,000 (sole PI).
2010–2011	One-year grant for functional genetics research from IBM Research Israel for \$66,000 (co-PI with Ron Shamir, Eran Halperin).
2011–2012	Second-year renewal of grant for functional genetics research from IBM Research Israel for \$66,000 (co-PI with Ron Shamir, Eran Halperin).
2011	Awarded Sackler chair for advancement of young faculty at TAU.
2011	Best Research Paper award at KDD-2011
2012–2016	ISF grant 1487/12 for \$175,000 (sole PI).

REFEREEING AND PROGRAM COMMITTEE MEMBERSHIP

Journals	Journal of the Royal Statistical Society; Journal of the American Statistical Society; Journal of Computational and Graphical Statistics; Statistica Sinica; Journal of Machine Learning Research; Machine Learning Journal; Data Mining and Knowledge Discovery Journal; AI in Medicine; Journal of Statistical Planning and Inference; Technometrics; Annals of Applied Statistics; Journal of Interactive Marketing; PLoS ONE; Theoretical Population Biology; Transactions on Pattern Analysis and Machine Intelligence
Conferences	Neural Information Processing Systems (NIPS); Intl. Conf. on Knowledge Discovery in Databases (KDD); Intl. Conf. on Machine Learning (ICML); IEEE Conf. on Data Mining (ICDM); Conf. of the American Assoc. of Artificial Intelligence (AAAI); International Symposium on Molecular Biology (ISMB)

STUDENTS SUPERVISED

Postdoctoral researcher

1. Ronny Luss (PhD 2009, Princeton): advised 2009-2011
Area: Isotonic modeling with applications in Genetics

PhD Students

1. Shlomi Lifshits: started in 2007; jointly advised with Yaniv Assaf of Tel Aviv University
Area: Computational Neuroscience
Topic: Brain segmentation from MRI images

2. Aya Vituri: Started in 2009
Topic: Statistical modeling of speciation processes
3. David Golan: Started in 2010
Topics: Applications of random effect models for estimating heritability; Statistical modeling of next generation sequencing data
4. Ehud Aharoni: Started in March 2012
Area: Theory and applications of multiple comparison procedures
5. Amichai Painsky: Started in April 2012; jointly advised with Meir Feder of Tel Aviv University
Area: Statistical models in information theory
6. Shachar Kaufman: Started in April 2012 Topic: Statistical modeling of gene-gene interactions

Master's Students

Graduated:

1. Giora Simchoni: Completed thesis in December 2010
Topic: Canonical correlation analysis with applications to text corpora
2. Adi Sarid: Completed thesis in September 2011
Topic: Testing monotonicity in empirical distributions, with applications in genetics
3. Amichai Painsky: Completed thesis in March 2012
Topic: Bi-clustering using combinatorial auctions
4. Shcahar Kaufman: Completed thesis in March 2012
Topic: Paradoxes of model optimism in model selection
5. Slava Borodovski: Completed thesis in June 2012)
Topic: Applications of the negative Binomial distribution in A-B testing and beyond

Current:

1. Philip Zlatsin: Started thesis work in 2011
Topic: Microsatellite mutation models in the genome
2. Aviad Klein: Started thesis work in 2011
Topic: Models for estimating recidivism in released convicts
3. Roe Eilat: Started thesis work in 2011
Topic: Alternatives to the min-HG test in genetics

Date: September 2012