

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Richard M. Heiberger	POSITION TITLE Professor of Statistics		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Oberlin College	A.B.	1967	Mathematics
Harvard University	M.A.	1968	Statistics
Harvard University	Ph.D.	1972	Statistics

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Positions and Honors.**ACADEMIC POSITIONS**

1993– Professor, Department of Statistics, Temple University
 1981–1993 Associate Professor, Department of Statistics, Temple University
 1983–1987 Director, Graduate Programs in Statistics, Temple University
 Summer 1991 Faculty Member, Temple University Japan
 1989–1994 Director of the Degree Audit Program, Office of the Provost, Temple University
 1989–1990 Acting Associate Vice Provost, Office of the Provost, Temple University
 1979–1981 Director, Cancer Center Biostatistics Program, School of Medicine, University of Pennsylvania
 1973–1979 Assistant Professor of Statistics, The Wharton School, University of Pennsylvania
 1971–1973 Assistant Professor of Statistics, Iowa State University

HONORS

2003 Elected Fellow of the American Statistical Association

RESEARCH POSITIONS

2003– GlaxoSmithKline, Philadelphia, PA Consultant
 1987–1989 AT&T Bell Laboratories, Murray Hill, NJ Consultant
 1981–1984 P-STAT, Inc., Princeton, N.J. Consultant on Statistical Software
 Summer 1978 Rothamsted Experimental Station, U.K. Visiting Scientist
 1968 Abt Associates, Inc., Cambridge, Mass. Statistician
 1965–1967 E. I. duPont de Nemours & Co., Inc., Philadelphia, Pa. Statistician and Programmer

PROFESSIONAL MEMBERSHIPS

American Statistical Association

The Biometric Society

Royal Statistical Society

International Association for Statistical Computing

Association for Computing Machinery Special Interest Group in APL (SIGAPL)

SERVICE TO THE PROFESSION

National Science Foundation, Panel on Undergraduate Course and Curriculum Development 1993, 1995

Interface Foundation of North America, Inc.

Member, Board of Directors 1987–1994,

Conference Chair, 19th Interface on Computer Science and Statistics, March 1987

American Statistical Association

Candidate for Chair of the Statistical Computing Section

of the American Statistical Association 2006

Associate Editor, *The American Statistician* 1998–2002

Committee on Certification of Statisticians 1992–1994

Local Arrangements Committee, 1984 National Meeting 1983–1984

President, Philadelphia Chapter 1983–1985

Vice-President, Philadelphia Chapter 1982–1983

Treasurer, Philadelphia Chapter 1980–1982

Referee, numerous journals and National Science Foundation.

B. Selected peer-reviewed publications

Books

Heiberger, Richard M., and Burt Holland (2004). *Statistical Analysis and Data Display: An Intermediate Course with Examples in S-Plus, R, and SAS*, Springer-Verlag, New York. With accompanying online files: Springer-Verlag, New York. <http://springeronline.com/0-387-40270-5>

Heiberger, Richard M. (1989). *Computation for the Analysis of Designed Experiments*, Wiley, New York. Software is on a floppy disk bound in with the book.

Heiberger, Richard M., editor, (1987). *Computer Science and Statistics: Proceedings of the 19th Symposium on the Interface*, American Statistical Association, Alexandria, VA.

Chambers, J. M., A. E. Freeny, R. M. Heiberger (1991), "Analysis of Variance; Designed Experiments." Chapter 5 (pp. 145–193) in *Statistical Models in S*, edited by J. M. Chambers and T. J. Hastie, Wadsworth, Monterey, CA. The software is included in in the S-Plus and R packages.

Heiberger, Richard M., and Burt Holland. "Structured Sets of Graphs." In *Handbook of Computational Statistics on Data Visualization*, edited by Chun-houh Chen, Antony Unwin, and Wolfgang Härdle. Springer. I presented this paper at the Compstat Conference in Berlin, August 2006.

Journal Articles

- Richard M. Heiberger and Burt Holland (2006), "Mean--Mean Multiple Comparison Displays for Families of linear Contrasts". *Journal of Computational and Graphical Statistics*.
- Ohad Amit, Peter W. Lane, and Richard M. Heiberger (2006), "Graphical Approaches to the Analysis of Safety Data from Clinical Trials" has been accepted for publication by *Pharmaceutical Statistics*, to appear.
- Rossini, A.J., Richard M. Heiberger, Rodney Sparapani, Martin Mächler, and Kurt Hornik (2004) "Emacs Speaks Statistics (ESS): A Multiplatform, Multipackage Development Environment for Statistical Analysis," *Journal of Computational and Graphical Statistics*, **13**, 1, pp. 247–261. The ESS software described here is available at <http://ESS.R-project.org>.
- Heiberger, Richard M. and Paulo Teles, (2002). "Displays for Direct Comparison of ARIMA Models," *The American Statistician*, **56**, 131–138, 258–260. The software is in <http://lib.stat.cmu.edu/S/ARIMA-trellis>.
- Heiberger, Richard M., Dulal K. Bhaumik, and Burt Holland (1993). "Optimal Data Augmentation Strategies for Additive Models," *Journal of the American Statistical Association*, **88**, 926–938.
- Heiberger, Richard M., and Richard A. Becker (1992). "Design of an S Function for Robust Regression Using Iteratively Reweighted Least Squares," *The Journal of Computational and Graphical Statistics*, **1**, 3, 181–196. The software rreg is included in the S-Plus and R packages.
- Raghavarao, Damaraju, and Richard M. Heiberger (1993). "Variance Balanced Generalized Nested Row-Column Designs with Empty Diagonal Cells," *Journal of Combinatorics, Information & System Sciences*.
- Heiberger, Richard M., Paul F. Velleman, and M. Agelia Ypelaar (1983). "Generating Test Data with Independently Controllable Features for Multivariate General Linear Models," *Journal of the American Statistical Association*, **78**, 383, 585–595.
- Heiberger, Richard M., Clifford L. Miller, Polly Feigl, Warren W. Lane, Gwen Glaefke (1983), "A Novel Method of Assessing Completeness of Tumor Registration," *Cancer*, **51**, 12, 2362–2366.
- Elder, David E., DuPont Guerry IV, Richard M. Heiberger, Donato LaRossa, Leonard I. Goldman, Wallace H. Clark, C. Jean Thompson, Isabel Matozzo, Marie Van Horn (1983). "Optimal Resection Margin for Cutaneous Malignant Melanoma," *Plastic and Reconstructive Surgery*, **71**, 1, 66–72.
- Cassileth, Barrie R., Richard M. Heiberger, Vicki March, and Katherine Sutton-Smith (1982), "Effect of Audiovisual Cancer Programs on Patients and Families," *Journal of Medical Education*, **57**, 54–59.

Software

- Heiberger, Richard M. and Holland, Burt (2004). **Statistical Analysis and Data Display**: Accompanying Online Files. Springer-Verlag, New York. <http://springeronline.com/0-387-40270-5>.
- Chambers, J. M., A. E. Freeny, R. M. Heiberger (1991), Linear regression and analysis of variance functions (lm and aov) in the S-Plus and R packages.
- Heiberger, Richard M. and Holland Burt. (2004), "Innovative Statistical Graphics Using S-PLUS, Web seminar, Insightful Corporation, August 25, 2004. http://insightful.com/news_events/webcasts/pharm04/heiberger.asp

Short Courses

Heiberger, Richard M. and Holland Burt. ``Statistical Analysis and Data Display".

Joint Statistical Meetings 2004 and 2005

Deming Conference on Applied Statistics 2005,

GlaxoSmithKline 2004 and 2005

Refereed Proceedings

Richard M. Heiberger and Burt Holland (2003). ``Trellis Extensions," *Third International Workshop on Distributed Statistical Computing*, Vienna, Austria, March 22, 2003.

<http://www.ci.tuwien.ac.at/Conferences/DSC-2003/Proceedings/HeibergerHolland.pdf>, ISSN 1609-395X.

Thomas Baier, Richard Heiberger, Kerstin Schinagl, Erich Neuwirth (2006). ``Using R for teaching statistics to nonmajors." <http://www.r-project.org/useR-2006/Slides/BaierEtAl.pdf>. I presented the paper in at the R User's Conference in Vienna, organized by the Austrian Association for Statistical Computing (AASC) in cooperation with the Wirtschaftsuniversität Wien (Business University of Vienna).