Professional resume of Stephen D. Simon

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Personal

- Born June 22, 1956. Married with one child.

Education

- Ph.D., University of Iowa, Statistics, December 1982
- M.S., University of Iowa, Statistics, December 1978
- B.A., University of Iowa, Mathematical Sciences, July 1977

Experience (in reverse chronological order)

- Full Professor, part-time (currently 75%), Department of Biomedical and Health Informatics, University of Missouri-Kansas City (UMKC), February 2009 to present. In this position, I started the Research and Statistical Consult Service. With a second consultant, we helped with the planning of research studies, analyzed the data coming from these studies, and co-authored research presentations and publications. We helped researchers obtain internal and external grant funding. I left work with the Research and Statistical Consult Service in January 2016 because of the demands of a major research grant, but the service is still being run by another faculty member. In addition to this work, I helped with the introduction of a new Master's degree in Bioinformatics and a graduate certificate in clinical research. I helped develop three new courses (Introduction to R, Introduction to SAS, and Introduction to SPSS) including the preparation of materials for an online version of these classes. I have provided guest lectures for other classes (Responsible Conduct of Research, Clinical Trials).

- Independent Statistical Consultant, P.Mean Consulting, July 2008 to present. In this position, I have provided consulting on research design and data analysis to clients. I have specialized in helping doctoral students who are struggling with the requirements of their dissertations. I have provided webinar classes for The Analysis Factor, Novartis, and the Medical Library Association. When I first started my consulting business, I

could not find much information about the practical aspects of statistical consulting (e.g., contracts, insurance, and billing), so I developed resources on my website and blog and gave presentations and short courses on setting up a consulting practice.

- Research Biostatistician, Office of Medical Research, The Children's Mercy Hospital and Clinics (CMH), May 1996 to October 2008, with a joint appointment as Associate Professor (promoted to Full Professor, September 2007) in the School of Medicine at the University of Missouri-Kansas City. In this position, I provided statistical consulting to the doctors, nurses, and other health care professionals at CMH. Before I arrived, there was no statistical support for researchers, so I developed a consulting system from scratch. This included a series of training classes that helped researchers to become self-sufficient for some of their less complex data analyses. I wrote some informational handouts for clients and placed these on my web (now at www.pmean.com). It started slowly, but averaging one or two handouts per week, I now have a website that has over 1300 pages (over 1600 if you count my blog, blog.pmean.com, started in 2013). This website is regularly cited in both paper and electronic resources for research methodology and pops up high on the list of search engines when technical terms in research are entered. I helped many researchers get funding (both internal and external) through research grants. I worked closely with the Institutional Review Board to ensure that protocols submitted to them addressed concerns about scientific merit and protection of confidentiality. I provided training in the ethical conduct of research. I worked closely with the effort to implement Evidence Based Health Care at CMH and participated in numerous journal clubs. In 2006, I published a book on the statistical issues associated with critical appraisal of research evidence. I was the sole statistician at CMH from 1996 to 2007 and oversaw a massive expansion in the quantity and quality of research conducted there.

- Chief, Statistics Activity, Division of Biomedical and Behavioral Science, National Institute for Occupational Safety and Health, December 1987 to May 1996. I supervised a staff of two research statisticians and two computer specialists. I oversaw the administration of a Local Area Network for more than 100 users, and the maintenance of administrative and research data on a client-server database. I reviewed and approved all project protocols in the Division prior to the start of any experimental work. I worked directly with project officers in designing experiments, analyzing data, and writing results for publication. I was very active in the NIOSH effort to adopt Total Quality Management (TQM), serving as team leader, facilitator, or member of a variety of quality teams. I provided many informal training seminars in TQM for NIOSH employees.

- Research Statistician, Division of Biomedical and Behavioral Science, National Institute for Occupational Safety and Health, July 1987 to November 1987. The person who hired me for this position left shortly after I arrived and I was quickly promoted to her position (see above).

- Assistant Professor, Department of Applied Statistics and Operations Research, Bowling Green State University, September 1981 to May 1987. Duties included teaching and research. I taught Business Statistics, Experimental Design, Linear Models, Multivariate

Statistics, Nonparametric Statistics, Regression, and Statistical Packages. I published articles and made presentations in the areas of numerical accuracy, robust statistics, and computer applications. During the Summer of 1986, I served as the Assistant Director of the Statistical Consulting Center.

- Adjunct Instructor, Department of Statistics, University of Iowa, June to August 1981. I taught a three credit hour class, Statistical Computing.

- Research Assistant, Statistical Consulting Center, University of Iowa, June 1979 to August 1981. I was the student director of the Statistical Consulting Center. Under the direction of a faculty adviser, I met with faculty and graduate students and provided guidance and support for the design of research studies and the analysis of the data from those studies.

List of research grants

[15] Lead Impact Study–Kansas City (HHTS20000276, Housing and Urban Development, Principal Investigator: Steve Simon). We propose a data collection effort to show that lead safe interventions can be targeted more effectively and that they can inform decisions about the choices among intervention strategies. Our first aim is to quantify the extent to which remediations to make housing lead safe by HUD standards lead to fewer lead poisoned children among those who move in. Our second aim is to develop an exterior housing-based risk index to cost effectively target homes with higher interior lead dust levels. I am funded at 10% effort from January 2021 through December 2024.

[14] COVID-19 Testing and Linkage to Care with African-American Church and Health Agency Partners (DK124664-01S1, National Institute of Diabetes and Digestive and Kidney Diseases). The primary aim of this study is to fully test a culturally/religiously-tailored, church-based COVID19 testing and linkage to care (LTC) intervention condition against a non- tailored intervention condition on COVID19 testing rates at 6 months with adult AA church members and the community members they serve. Guided by the Theory of Planned Behavior and Socioecological Model, our community- engaged approach includes trained church leaders delivering a culturally, church-appropriate COVID19 Toolkit. Examination of LTC use and contact tracing approval will aid in understanding intervention impact on COVID19 testing by addressing participant essential needs. Potential mediators/moderators related to receipt of COVID-19 testing will be evaluated, and a process evaluation to determine implementation facilitators, barriers, and fidelity related to increasing COVID19 testing rates. I am funded at 10% effort during calendar year 2021 and 5% effort during calendar year 2022.

[13] Development of a telehealth obesity intervention for patients with MS. (Multiple Sclerosis Society, Principal Investigator: Jared Bruce) A cross-disciplinary research team is testing the effectiveness of an MS-specific weigh loss/healthy living program delivered by phone, since obesity can profoundly worsen MS severity. I am funded at 2% effort starting in October 2019, increasing to 5% effort from October 2023 through September 2024.

12 additional grants not shown.

List of awards

[11] Honorable mention in the R programming contest sponsored by Revolution Analytics, for R functions to predict the completion date for a prospective clinical trial, May 2014.

[10] Co-author of a research presentation (Nopper A, Wright T, Tee R, Horii K, Simon S, Popovic J, Alon U. Bone Density in Children With Hemangiomas Treated With Systemic Glucocorticoids) which received the ISSVA "R Schobinger Award" for best clinical paper presented during the 16th International Workshop on Vascular Anomalies, June 2006, Milano, Italy.

[9] Co-author of a research paper (Miller-Hansen DR, Nelson PB, Widen JE, Simon SD. Am J Audiology 2003;24(1);16-18) which received the Editor's Award for the American Journal of Audiology for the most outstanding publication in the calendar year 2003.

8 additional awards not shown.

Professional organizations and special committee assignments

[31] President of the Kansas City R Users Group (December 2014 to present). This group meets monthly to share information and experiences with the R programming language. When I took over, the group was threatening to fold because meetings had as few as three or four people attending. I converted the group's publicity from a proprietary email notification system to meetup.com, changed the format of the meetings to alternate between beginner and advanced sessions, found an alternate meeting site with better seating and audiovisual equipment, and recruited new speakers for the meetings. The group has increased its membership and now has 10 to 20 attendees at most meetings.

[30] Co-organizer (with M Gerkovich) of Secondary Data Analysis working group (January 2014 through June 2015). This group meets monthly and members take turns sharing information about interesting data sources they have used. In the fall semester of 2015, this group was folded in with the graduate student seminar.

[29] Member of the Complementary and Alternative Medicine (CAM) Statisticians committee within the American Statistical Association (ASA) (August 2012 to present). This group meets annually at the Joint Statistical Meetings and conducts additional business by email and telephone. The members share experiences and concerns about statistical issues associated with CAM research studies, learns about research developments at the National Center for Complementary and Integrative Health, and provides outreach to CAM practitioners who wish to study their therapies in a rigorous and controlled fashion.

28 additional committees not shown.

List of computer skills

- Bibliographic software: EndNotes, Knowledge Finder, Zotero.
- Database software: Microsoft Access, Microsoft SQL Server, Oracle, PC-File, SQLite.
- Graphics software: ACDSee, Metafile Companion, Photoshop Elements, SigmaPlot.

- Internet systems: File Transfer Protocol, Gopher, Telnet, USENET, WordPress, World Wide Web.
- Mathematical software: MathCAD, Mathematica, MathType.
- Presentation software: Powerpoint.
- Programming languages: BASIC, C, FORTRAN, Pascal, Perl, PL/1, Visual BASIC.
- Spreadsheets: Excel, Lotus 1-2-3, SuperCalc.
- Statistical software: AMOS, BMDP, IMSL, JMP, LogXact, MINITAB, nQuery Advisor, OpenBUGS, R, RATS, S-Plus, S-Plus/Wavelets, SAS, Stan, SPIDA, SPSS, STATA, Statgraphics, StatXact, Systat, WinBUGS.
- Utility software: DBMS/COPY, Norton Anti-virus, TextPad, WinZip.
- Word processing: Word, Word Perfect.
- Other experience: I have supervised the implementation of a Novell Local Area Network and Microsoft SQL Server, a client-server database, both for a division of 100+ employees. I have authored web pages using Adobe Acrobat, Adobe Dreamweaver, Camtasia Studio, and Microsoft Front Page. I have used and taught IBM mainframe Job Control Language, including tape and disk I/O.

List of volunteer efforts

[11] Head of the Second Friday Movie Group, December 2004 to present, a group that offers a social outlet formerly just for members of St. Pauls United Methodist Church in Lenexa, but now open to anyone. We meet on the second Friday of each month to see a first run movie and afterwards visit a nearby restaurant to discuss the movie. As head of the group, I maintain a mailing list of members, select an appropriate movie, announce the choice, and collect RSVPs. The Movie Group hosts an Academy Awards party every year.

[10] Performer with the Back Porch Cloggers, December 1999 to May 2006, a group that performed Appalachian Clogging. We would regularly entertain at various local retirement homes and nursing facilities.

[9] Served as Vice President Education (July 2001 to June 2003), President (July 2000 to June 2001) and Sergeant-at-Arms (February 2000 to June 2000) for the Bluejacket Toastmasters Club. Toastmasters provides a mutually supportive and positive learning environment for the development of communication and leadership skills. As Vice President Education, I prepared a program of speakers and evaluators for each meeting and reviewed credentials of members applying for Competent Toastmaster, Able Toastmaster, and Distinguished Toastmaster certifications. As president, I provided support and guidance to all the other officers of the club and represent the club to the parent organization (Toastmasters International) and to outside groups. As Sergeant-at-Arms, I prepared the room for each meeting and provided refreshments. I was selected as the winner of the speech contest for my speech "I married a dog nut," March 2003, humorous speech contest for my speech "The one thing that can gross out a doctor," September 2001, and also won at the Area K-1 contest, and the Division K contest.

8 additional volunteer efforts not shown.

Hobbies and Interests

- Appalachian Clogging, Bridge, Cats, Chess, Computers, Contra Dancing, Crossword Puzzles, Languages, Travel, Volleyball, Walking.

List of publications

The definitive list of publications is available at https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/48071026/?sort=date&direction=descending

[109] Younis M, Elkaryoni A, Williams GW, Jakhar I, Suman S, Simon S, Salzman G. The Use of Direct Oral Anticoagulants in the Management of Venous Thromboembolism in Patients With Obesity. Cureus 2020-08-25, 12(8): e10006. doi:10.7759/cureus.10006.

[108] Simon SD. Centers for Disease Control and Prevention. In Encyclopedia of Big Data. Schintler LA, McNeely CL (eds.). In press.

[107] Simon SD. Census Bureau (U.S.). In Encyclopedia of Big Data. Schintler LA, McNeely CL (eds.). In press.

[106] Berkley-Patton J, Bowe Thompson C, Goggin K, Catley D, Berman M, Bradley-Ewing A, Derose K, Resnicow K, Allsworth J, & Simon S. A religiously-tailored, multilevel intervention in African American churches to increase HIV testing rates: rationale and design of the Taking It to the Pews cluster randomized trial. Contemporary Clinical Trials 2019; 86: 105848.

[105] Simon SD. Getting Paid: How to Determine Your Fee. Amstat News. 2017 (August 1). This article was not peer-reviewed.

104 additional publications not shown.

List of regional/national presentations (first author only)

[61] Simon SD. "Ebenezer Scrooge, Data Scientist," a poster presentation for the UMKC Faculty Research Symposium, Apri 2019.

[60] Simon SD. "Mining the Electronic Health Record," a 10 minute presentation for the Midwest Bioinformatics Symposium, April 2019.

[59] Simon SD. "What's the best statistical package," a 90 minute webinar presented for The Analysis Factor, February 2018.

[58] Simon SD. "Design and analysis of a meta-analysis," a 90 minute webinar presented for The Analysis Factor, November 2018.

[57] Simon SD. "Finding customers for your independent consulting practice," a 90 minute webinar presented for the Statistical Consulting Section of the American Statistical Association, November 2018.

56 additional presentations not shown.

List of research conferences attended

[87] Joint Statistical meetings, July 2019, Denver, CO.

[86] Statistics and Data Science Symposium, May 2019, Bellevue, WA.

[85] Midwest Statistical Machine Learning Colloquium, May 2019, Ames, IA.

[84] Midwest Bioinformatics Conference, April 2019, Kansas City, MO.

[83] Innovations in Design, Analysis, and Dissemination: Frontiers in Biostatistical Methods, April 2019, Kansas City, MO.

82 additional conferences not shown.

List of training classes

[99] Geospatial Analysis Using SAS Software, 2 contact hours, August 2019.

[98] Bootstrap Learning Python with R, 8 contact hours, July 2019.

[97] Data Visualization: Principles and Applicationsin R, Tableau, and Python (S Begren, T Iverson), 4 contact hours, May 2019.

[96] Introduction to Deep Learning (K Kuo, J Luraschi), 4 contact hours, May 2019.

[95] Winning Federal Research Grants: SBIR/STTR Workshop, 2 contact hours, January 2019.

94 additional classes not shown.

Note: This resume was created using RMarkdown and was printed on Thursday, March 25, 2021. With RMarkdown, you lose some of the fancy formatting available in other programs, but the layout is clean and simple and (most importantly) easy to maintain. Some lists were abbreviated to keep the length of this resume reasonable. You can find a resume with the complete lists at

https://github.com/pmean/resume/blob/master/results/full-resume.pdf

You can find the latest version of THIS resume at

https://github.com/pmean/resume/blob/master/results/resume.pdf