

SCHOLARLY ACTIVITIES**PART I PROFESSIONAL/CLINICAL SERVICE**

NAME: Stephen D. Simon

Completion of Scholarly Activities- Professional/Clinical Service

Applicants must demonstrate excellence in two (2) of the three (3) recognized areas of scholarly activity. Candidates may elect not to submit data for the optional area, or they may submit information in all three (3) areas and allow the SOM Faculty Appointment and Promotion Committee to independently consider their strengths in those areas. The following areas should be described with sufficient detail to allow the Committee to assess the merit of each listed activity. **All activities described below should occur since the applicant's affiliation with UMKC or applicant's last promotion.** Where applicable, brief narrative descriptions of the professional/clinical service activity should be included.

- 1. ADMINISTRATIVE APPOINTMENTS:** Beginning with present position and in reverse chronological order since affiliated with UMKC or last promotion, list all offices or appointments (section head, director or coordinator of an office). Give dates of appointment(s) and institutions or hospitals where those appointments are held.

Research Biostatistician, Office of Medical Research, The Children's Mercy Hospital, May 1996 to present, with a joint appointment as **Associate Professor** in the School of Medicine at the University of Missouri, Kansas City.

[5 positions, held from June 1979 to April 1996 not listed.]

- 2. COMMITTEES:** List all UMKC, UMKC SOM and affiliated hospital committees in which you are a member. If you hold a specific office on the committee (*e.g.* Chairman), include that position in the listing. For non-UMKC SOM committees please provide a brief narrative description of the committee's function(s) and your contributions. Begin this list with most recent committee activities and continue in reverse chronological order, providing dates of service and location(s) for each item since affiliated with UMKC or last promotion.

Member of the **Kansas University Medical Center Data Safety and Monitoring Board Executive Committee** (January 2002 to present) and vice-chair (January 2005 to present). The Data Safety and Monitoring Board provides on-going review of research projects at the Kansas University Medical Center where there is a conflict of interest for the primary investigator or where early stopping of a trial would be considered for early evidence of efficacy or early evidence of an unacceptable rate of adverse events.

Member of the **UMKC School of Medicine search committee for a M.S. Biostatistics position** (April 2007 to June 2007).

Member of the **UMKC School of Medicine search committee for a Ph.D. Biostatistics position** (July 2006 to April 2007).

Member of **UMKC School of Nursing search committee for a Ph.D. Biostatistics position** (September 2005 to November 2005).

Member of **advisory committee to develop a UMKC Health Outcomes Research Masters Degree program** (October 1999 to February 2000).

Founder and president of the steering committee for the **Childrens Mercy Hospital Internet Users Group** (April 1997 to June 1998). The Internet Users Group provides a forum for individuals to share their expertise on Internet topics. The steering committee identifies speakers and topics for meetings and prepares publicity. As founder, I scheduled and ran an organizational meeting for the group, developed the structure and goals of this group, and recruited volunteers for the steering committee. As a president of the steering committee, I arrange meetings of this group and provide overall guidance.

- 3. PROFESSIONAL ORGANIZATIONS:** Beginning with national/international and proceeding through regional and local levels, list all professional organizations or societies in which you are a member since affiliated with UMKC or last promotion. If you hold an appointive or elective office in one of these organizations, indicate what office you hold and for what period of time. For those organizations that have a specific focus or are specialty/subspecialty oriented, a brief narrative description of the organization and your involvement would facilitate the evaluation process. If membership is selective (*e.g.* performance-based), you may want to briefly describe the selection criteria.

Member of the American Statistical Association (ASA) since 1984. I have held numerous offices in the ASA.

I am a member of the **American Statistical Association (ASA) Traveling Course committee** (August 2004 to present) and chair (August 2006 to present). The Traveling Course committee solicits speakers who are willing to offer a one day short course on an important topic in Statistics. This course is available for three local ASA chapters. The committee reviews applications to host the course and selects three chapters to host the course. The committee then arranges all of the travel and other logistics along with the appropriate local ASA chapter officers.

I was the Chair of the **planning committee for the short course by C Davis on Statistical Methods for the Analysis of Repeated Measurements** (January 2004 to April 2004). This committee made room and refreshment arrangements, prepared publicity, and handled registration (45 attendees).

Council of Chapters Representative (July 2001 to June 2004), President (July 1998 to June 2000), and Vice President (July 1997 to June 1998) for the **Kansas/Western Missouri chapter of the American Statistical Association**. The Kansas-Western Missouri chapter provides statistics seminars and other presentations from local and national experts for locations in Western Missouri and in Kansas. As Council of Chapters representative, I served as a liaison between the local ASA chapter and the national office. As president, I provided support and guidance to all the other officers of the chapter and represented the club to the parent organization (the American Statistical Association). As vice-president, I recruited speakers and organized the time and location of statistics presentations.

4. **PROFESSIONAL/CLINICAL SERVICE:** Identify the type of professional/clinical service in which you are engaged: private practice, solo or group, hospital-based or university-based. Briefly describe the nature of your practice and the types of patients you see.

None

5. **COMMUNITY SERVICE:** In reverse chronological order for dates of service, list any community organizations in which you are a member or participant since affiliated with UMKC or last promotion. These need not necessarily be medically related. Brief narrative descriptions may be necessary to clarify your role and contributions to these organizations. If you hold elected or appointed positions within these service groups or the community, identify those positions and briefly describe your role.

I am the head of the **St. Paul's Movie Group** (December 2004 to present), a group that offers a social outlet for members of St. Paul's United Methodist Church in Lenexa, KS. The Movie Group meets on the second Friday of each month to see a first run movie and afterwards visits 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 also hosts an Academy Awards party every year.

I was a dancer 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.

I served as the 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 room for each meeting and provided refreshments. I was selected as the winner of the Bluejacket Toastmasters international speech contest for my speech "I married a dog nut," March 2003. I was also the winner of the Bluejacket Toastmasters humorous speech contest for my speech "The one thing that can gross out a doctor," September 2001. This speech also won at the Area K-1 contest, and the Division K contest.

I tutored for the **Adult Basic Literacy program**, March 2000 to December 2001, two hours per week. I provided assistance to adults who were studying for their GED degree.

I tutored a student at **Longfellow Elementary School**, November 1999 to March 2000, one hour per week. I provided assistance to a third grade student in various academic areas, mostly math.

I edited the **Red Oak Hills Homeowners Association** newsletter, November 1998 to April 2002. This newsletter appears four or more times a year and highlights information of interest to the 275 home owners in Red Oak Hills.

6. CLINICAL TEACHING: If you have students/residents/fellows who spend time in your practice/clinic, please describe their role in your practice and the frequency with which they attend. If you teach these trainees clinical practice issues (beyond diagnosis and treatment), please describe those activities (*e.g.* practice management).

None

7. INNOVATION: Describe recent changes in your area, and identify their use in your work. Identify how those activities have been incorporated into your practice and how they have impacted patient care. If you provide clinical care for a specific subset of patients (within your specialty/subspecialty), describe those efforts and the unique innovative clinical aspects of this practice. If your practice participates in phase III or post-marketing clinical trials, please identify those trials by name and describe your involvement.

I do not have specific patient care responsibilities. I have, however, participated as a consulting statistician in more clinical trials and other forms of clinical research than can be enumerated here. One particular research effort, however, development of a Bayesian model for patient accrual deserves special mention, because it is an effort whose value to clinical practice cannot be underestimated. Too many clinical researchers overpromise and underdeliver on patient accrual, leading to clinical trials that end up far behind schedule and/or with far fewer patients than originally planned. We want to promote better planning and monitoring of accrual, which will improve the conduct not just for a single clinical trial, but for all clinical trials. We propose a process for eliciting a Bayesian prior distribution for accrual. The prior distribution produces a range of completion times for the research which can be presented during the scientific and ethical review of the study. As patients enter the trial, the Bayesian model allows an update on the distribution of estimated completion times. If the model indicates that a study is falling seriously behind schedule, a researcher can take corrective action by changing the protocol to loosen some of the entry criteria or hiring additional support staff to speed up recruitment of new patients. In some cases, the best remedy might be to shut down the trial to avoid throwing good money after bad.

The Bayesian model provides a rigorous framework for planning and an effective model for monitoring. This work, if it is widely disseminated, could have a major impact on the quality of clinical research throughout all medical disciplines. A grant that supports the work on Bayesian accrual models is described in Research, Section 1, and a research poster about this work is described in Advancement of Knowledge (Research), Section 6. A detailed description of the Bayesian accrual model appears on the web at www.childrensmercy.org/stats/accrual.asp.

8. HONORS/AWARDS: In reverse chronological order, beginning with the most recent, list those awards or honors recognition received for public, professional or institutional service activities. Please list the name of the award, awarding agency/department, what the award recognizes and the date it was received. This list should be limited to those awards/honors received since affiliated with UMKC or last promotion.

None. Please note, however, award under Teaching, Section 4 and awards under Advancement of Knowledge (Research), Section 8.

- 9. CONTINUING MEDICAL EDUCATION:** In reverse chronological order, beginning with the most recent, list all CME hours per year in which you have participated since your affiliation with UMKC or since your last promotion. Please identify if you were a presenter.

As a professional statistician, I am not required to acquire any number of continuing medical education hours per year. I have presented numerous CME classes and these are noted in Teaching, Section 3. My continuing education efforts (separated by professional conferences and individual classes) are listed below. Note that one hour seminars are not included in this list.

Professional conferences attended

- * Joint Statistical Meetings, July/August 2007, Salt Lake City, UT.
- * Joint Statistical Meetings, August 2006, Seattle, WA.
- * Eighteenth Annual Applied Statistics in Agriculture, April 2006, Manhattan, KS.
- * Fifth Annual Kansas City Life Sciences Research Day, April 2006, Kansas City, MO.
- * Joint Statistical Meetings, August 2005, Minneapolis, MN.
- * Fourth Annual Kansas City Life Sciences Research Day, April 2005, Overland Park, KS.
- * Joint Statistical Meetings, August 2004, Toronto, CA.
- * Bridging the Gap Between Eastern & Western Medicine, January 2004, Kansas City, MO.
- * Joint Statistics Meetings, August 2003, San Francisco, CA.
- * ENAR Biometric Society Meeting, March 2003, Tampa FL.
- * Second Annual Kansas City Life Sciences Research Day, March 2003, Kansas City, MO.
- * A Higher Standard: The Ethics of Clinical Research, September 2002, Kansas City, MO.
- * Seventh Annual Clinical Research Symposium: Focus on Pediatric Pain, September 2002, Kansas City, MO.
- * Joint Statistical Meetings, August 2002, New York NY.
- * Joint Statistical Meetings, August 2001, Atlanta GA.
- * Joint Statistical Meetings, August 2000, Indianapolis IN.
- * Fourth Annual Clinical Research Symposium, June 2000, Kansas City MO.
- * NIH Regional Seminar on Program Funding and Grants Administration, June 2000, Kansas City MO
- * Conference on Applied Statistics in Agriculture, May 2000, Manhattan KS
- * The 7th National Research Utilization Conference: Evidence-Based Interventions for Symptom Management, April 2000, Iowa City IA
- * Toastmasters District 22 Spring Conference, April 2000, Kansas City MO
- * Joint Statistical Meetings, August 1999, Baltimore MD
- * NIH Regional Seminar on Grants Administration, July 1999, Madison WI
- * Third Annual Clinical Research Symposium, June 1999, Kansas City, MO
- * Research Involving Infants, Children, and Adolescents: Issues and Ethics for the 21st Century, April 1999, Kansas City MO
- * The Elements of Clinical Research: An Overview, October 1998, Kansas City, MO
- * Joint Statistical Meetings, August 1998, Dallas TX
- * Global Statistical Challenges and Strategies in the Pharmaceutical Industry, March 1998, Hilton Head SC
- * Joint Statistical Meetings, August 1997, Anaheim CA
- * Fourth International Applied Statistics in Industry conference, June 1997, Kansas City MO
- * Second Annual Clinical Research Symposium, June 1998, Kansas City, MO

- * Eastern North America Region Biometric Society Meeting, March 1997, Memphis TN
- * SAS Users Group International Conference, March 1997, San Diego CA
- * Joint Statistical Meetings, August 1996, Chicago IL

[20 conferences from 1984 to 1995 not listed]

Training classes attended (classes with one contact hour or less are not listed).

- * Writing Winning Grants Workshop (K Gary and D Morrison), 4 contact hours, April 2006.
- * Bayesian Clinical Trials (S Berry), 8 contact hours, April 2006.
- * Analysis of Gene Expression Data (T Speed, B Bolstad, YHJ Yang, J Wettenhall), 16 contact hours, August 2005.
- * Exploration and Analysis of DNA Microarray Data (J Cabrera), four week web based class with approximately 5-15 hours per week of work, October 2005.
- * Advanced Excel for the Power User, 8 contact hours, June 2005.
- * Excel: Beyond Mere Basics, 8 contact hours, June 2005.
- * Bootstrap Methods and Permutation Tests for Doing and Teaching Statistics (T Hesterberg), 4 contact hours, August 2004.
- * Successful Data Mining in Practice (R De Veaux), 16 contact hours, August 2003.
- * Linear Mixed Models in SPSS, 2 contact hours, August 2003.
- * Statistical Methods and Software for the Analysis of DNA Microarray Experiments (S Dudoit, R Irizarry), 4 contact hours, March 2003.
- * Introduction to Molecular Biology and Bioinformatics Studies for Analysts (E Lazaridis), 4 contact hours, August 2002.
- * Statistical Methods for Microarray Studies (E Lazaridis), 4 contact hours, August 2002.
- * How to Practice Evidence Based Medicine, 16 contact hours, September 2001.
- * Model Based Clustering (A Raftery, C Fraley), 16 contact hours, August 2001.
- * Research Principles III (Corporate Compliance and Genetic Testing), 2 contact hours, May 2001.
- * Research Principles: Part I, 4 contact hours, September 2000.
- * Conversational Database: A Traveler's Guide to Database Theory and Common Query Languages (R Grasser), 4 contact hours, August 2000.
- * Wavelets in the Real World: Concepts and Applications (R Ogden), 4 contact hours, August 2000.
- * Statistical Searches for Disease Genes (B Weir), 8 contact hours, August 1999
- * An Introduction to Generalized Linear Mixed Models (C McCulloch), 16 contact hours, August 1999
- * The Basics of Web Site Design, 8 contact hours, November 1999
- * Writing Winning Grants Workshop (D Morrison), 5 contact hours, April 1999
- * Sample Size and Power Determination in Medical Research and Clinical Trials (JD Elashoff), 3.5 contact hours, March 1998
- * Microsoft Outlook 97, 8 contact hours, November 1997
- * Early Stopping of Clinical Trials (G Lan), 4 contact hours, August 1997
- * Analysis of Functional Data (B Silverman and JO Ramsey), 16 contact hours, August 1997
- * Advanced Access 7.0, 8 contact hours, June 1997
- * Intermediate Access 7.0, 8 contact hours, April 1997

- * Access 7.0: Tables, 4 contact hours, March 1997
- * Bayes and Empirical Bayes Methods for Biostatistical Data Analysis (B Carlin and T Louis), 8 contact hours, March 1997
- * Great Explanations: Listening Skills, 2 contact hours, January 1997
- * Sampling-Based Methods for Bayesian and Likelihood Inference (M Tanner and I Hoeschele), 16 contact hours, August 1996
- * Learning to Fly with Mixed Models, 8 contact hours, February 1996

[38 training classes from 1983 to 1995 not listed]

10. PRESENTATIONS AND PUBLICATIONS: In reverse chronological order list all publications and/or presentations relevant to your clinical practice since affiliated with UMKC or your last promotion. These activities may include visiting lectureships, consultation arrangements, books/book chapters and clinical reviews. Published manuscripts should be cited in standard bibliographic format (authors, title, journal, volume, page(s) and date). Presentations should include the title of the presentation, date, who presented to and where presented.

This material is more appropriately cited under Advancement of Knowledge (Research), Sections 2 and 6.

11. OTHER CLINICAL PRACTICE: In this section, the faculty member may list other innovative or scholarly professional/clinical service activities. The applicant is referred to Appendix B, *Guidelines for Promotion of SOM Full-Time Non-Regular (Non-Tenure) Non-Physician and Non-Clinical Physician Faculty* for suggestions on the types of other or innovative activities which may be included. These suggestions are not all-inclusive however. Faculty members who have other unique or innovative teaching activities are encouraged to describe those in this section. Each activity must be listed by title, date(s) of activity, location and with a narrative description as mentioned above. Candidates may attach additional documentation which clarifies the faculty member's activities for up to two (2) of these activities.

None.