

**Agnes Scott College  
Professional Activities Report (PAR)  
Faculty Annual Review**

**for the period of  
June 1, 2006 – May 31, 2007\***

*\*For this year only, include data from April 1-May 31 2006*

**Deadline for completion of PAR: June 1, 2007**

The vice president for academic affairs/dean of the college annually requests that each full-time faculty member complete a professional activities report to document the faculty member's activities and accomplishments in teaching, scholarship, and service. The PAR should be submitted with an up-dated *curriculum vita*.

*Cells will expand as you type or paste text. Use Tab at end of row to create additional rows as needed*

**Name:** Jim Wiseman                      **Rank:** Assistant Prof.                      **Department** Mathematics

☐ **Department Chair?** (double click in box if "Yes")                      **Dates of Service:**

**Program Director for:**                      **Dates of Service:**

## I. Teaching and Advising

### A. 2006-2007 Teaching: include independent study, special study, internships, etc.

<b>Fall 2006</b>			
Course Name	Credit hours	Course number and section	No. of students per course/section who received a grade
Elementary Statistics	4	MAT 115A	25
Calculus II	4	MAT 119A	17
Abstract Algebra	4	MAT 321A	5
Special Study (Topology)	4	MAT 410	1

  

<b>Spring 2007</b>			
Course Name	Credit hours	Course number and section	No. of students per course/section who received a grade
Elementary Statistics	4	MAT 115A	26
Calculus II	4	MAT 119B	10

**B. Summer 2006 Teaching at ASC or elsewhere: include independent study, special study, internships, etc.**

Summer 2006 Course Name	Credit hours	Course number and section	No. of students per course/section who received a grade

**C. List curriculum and instructional development (development of new course(s), significant course revisions, major new instructional initiatives, material development, team teaching, interdisciplinary teaching, global connections/awareness trips (courses included above), significant pedagogical innovation, development of new experiments/demonstrations, lab manuals, new technology used in teaching). Note extra course load.**

Calculus II, abstract algebra, and the special study in topology were new preparations. Developed a proposal for the Curriculum Committee for a new course, MAT 311 Chaotic Dynamical Systems, which we'll offer in Spring 2008. With Alan Koch, selected and procured Fathom, a software program for statistics education, and incorporated it into my Fall and Spring statistics courses.

**D. List on-campus guest lectures**

"Women in Math and Science: Examining Psychological Barriers to Learning," CTL presentation, 4/07.

**E. General and major advising**

Number of students for whom you are the <b>MAJOR</b> academic advisor	Number of students for whom you are the <b>MINOR</b> academic advisor	Number of <b>SELF-DESIGNED</b> <b>MAJORS</b> for whom you are the academic advisor	Number of <b>UNDECLARED</b> <b>MAJORS</b> for whom you are the academic advisor
3			13

**F. List other on-campus advising roles**

Advisor for dual-degree engineering program with Georgia Tech.  
Faculty advisor for Infinity Club (math club).  
Attended Academic Advising's Pizza and a Major night, 10/06.  
Attended majors fair, 2/07.  
Wrote several letters of recommendation.  
Discussed graduate school options with individual majors.

**G. Professional development related to teaching: Center for Teaching and Learning workshops or activities; ITS workshops, teaching conferences or seminars, etc.**

Attended three-day Kemper Faculty Development Workshop on "Liberal Arts and Experiential Learning: Internships Across the Disciplines," 8/06.
Took a Mathematical Association of America Minicourse on "Directing Undergraduate Research" at the Joint Mathematics Meetings in New Orleans, 1/07.
Attended the following CTL events: "Conversations about Race in the Classroom," 11/06, and follow-up session 1/07; Lesley Coia, "On good authority: An Investigation of the Grounds for Legitimate Authority," 11/06; Laura Palucki-Blake et al., "Writing in First Year Seminars: What do we know about it?," 1/07; Victoria Deneroff and Mel Lasseter, "Focusing on the Individual Learner in the Post-Secondary Classroom," 2/07; Wendy Atkins-Sayre, "Designing and Grading Oral Assignments," 2/07.

**H. Grants received and requested, awards and honors related to teaching and advising.**

**1. Grants received or requested:**

Source and status	Title, purpose	Date begin/end	Amount
Received from CTL	(with Amber Garcia, psychology, now at College of Wooster) "Women in Science and Math: Examining Psychological Barriers to Learning." Analyzing relationship between stereotype threat and learning in math and science. (Project is ongoing.)	6/06-8/06 (summer stipend)	\$2000
Received from Bevier Public Health Initiative (through PDC)	"Mathematical Modeling of the Spread of Disease." Course development stipend for MAT 325, Mathematical Modeling, Spring 2008.	6/07-1/08	\$1500

**2. Awards, honors, and recognition (from college, city, state, national or international professional organizations including fellowships, memberships, tenure, promotion).**

Award or honor	Source	Date

**II. Scholarship**

**A. Scholarly publications (broadly defined), performances, and exhibitions: published, performed, or exhibited between June 1, 2006 and May 31, 2007. Attach a copy of publication (title page only for books and the equivalent for software). List below using complete citation. Following each work, indicate in parentheses the type of review process**

**that resulted in publication, e.g. blind refereed review, editorial board review, invited, selected conference proceedings, etc.**

- 1. Print publications such as articles, books, chapters in books, creative writing, edited text, editorials, monographs, reviews, etc.**

*Following each work, indicate in parentheses the type of review process that resulted in acceptance.*

(with David Richeson) Positively expansive dynamical systems, <i>Topology and its Applications</i> 154 (2007), no. 3, 604-613. (Blind refereed review)
(with Danielle Silverman, Swarthmore '04) Noting the difference: musical scales and permutations, <i>American Mathematical Monthly</i> 113 (2006), no. 7, 648-651. (Blind refereed review)
Reviewed for <i>Mathematical Reviews</i> (all invited): MR2189545 (2006i:37035) Kalies, W. D.; Mischaikow, K.; VanderVorst, R. C. A. M. An algorithmic approach to chain recurrence. <i>Found. Comput. Math.</i> 5 (2005), no. 4, 409--449. MR2197074 (2006i:37033) Athanassopoulos, Konstantin. Remarks on the region of attraction of an isolated invariant set. <i>Colloq. Math.</i> 104 (2006), no. 2, 157--167. MR2218816 (2007a:37022) Wang, Xiaoxia; He, Zuguo. The recurrence and the gradient-like structure of a flow. <i>J. Appl. Math. Comput.</i> 21 (2006), no. 1-2, 469--475.

- 2. Conference/meeting papers or posters. List date, meeting, conference or association name, location, title of presentation.**

*Following each work, indicate in parentheses the type of review process that resulted in acceptance.*

"Positive expansiveness," Carolinas Dynamics Symposium, Davidson, NC, 4/06. (invited)
"Chain transitivity and mixing," Summer Conference on Topology and its Applications, Statesboro, GA, 7/06. (invited)
"What was it you wanted? The art of counting ballots," ACME talk, 11/06. (invited)
"Recurrence and chain recurrence dimension," Joint Mathematics Meetings, New Orleans, LA, 1/07. (peer review)

- 3. Performances, exhibitions, productions, recitals, etc. List title, date, location, and attach a program if available.**

*Following each work, indicate in parentheses the type of review process that resulted in acceptance.*

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- 4. Non-print publications such as software, film, video, or slide package.**

*Following each work, indicate in parentheses the type of review process that resulted in acceptance.*

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- 5. Other types or categories of publication, not listed above.**

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**B. Publications, performances, or other works accepted for publication, performance, exhibition, etc. between June 1, 2006 and May 31 2007.**

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**C. Collaborative research with students**

Molly Roza and Jaxen Solseng, "Can you tell? The chocolate project," SpARC presentation, 4 / 07 (review by SpARC committee)

(This doesn't really go here, but I couldn't figure out where else to put it:)  
(with Alan Koch) Statistical analysis of genetic data for Doug Fantz's research, 6 / 06 - 8 / 06

**D. Professional development related to scholarship**

1. Sabbaticals or pre-tenure leave. Describe (1) sabbatical or leave awarded with synopsis of intention or (2) as completed with synopsis of accomplishment.

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2. Professional meetings attended [no presentation], special study, travel, etc. related to your discipline or to interdisciplinary work.

Co-author David Richeson visited Atlanta, 10 / 13 - 10 / 16 / 06.

Attended American Mathematical Society Spring Southeastern Section Meeting, Davidson, NC, 3 / 07.

**E. Grants received and requested, awards, honors related to scholarship.**

1. Grants received or requested:

Source and status	Title, purpose	Date begin/end	Amount

2. Awards, honors, and recognition (from college, city, state, national or international professional organizations including fellowships, memberships, tenure, promotion).

Award or honor	Source	Date

### III. Service to the Department, College, Students, Profession, Community

- A. Faculty and college committee assignments, departmental service (chair, hiring committees, etc.), activities related to admission (help with recruitment and admission), student-related activities such as FYI groups, and other committee work. Define role if necessary.**

Professional Development Committee  
 Library Advisory Group  
 SpARC Committee (publicity subcommittee co-chair)  
 Natural and Mathematical Sciences Conference co-convenor  
 New faculty mentoring  
 Math Dept. Problem of the Week (wrote problems, maintained website, graded solutions), Fall 2006  
 Helped Katherine Smith host welcome party for new faculty, 8/06  
 Scholars Weekend interviewing, 2/07  
 Basketball guest coach, 12/06  
 Played in faculty / staff vs. students basketball game, 4/07  
 Announcer for Scottie Math Bowl, 4/06 and 4/07  
 Attended Promise Scholar planning meetings, 8/06, 11/06, 12/06  
 Helped plan inauguration greetings from faculty, 3/07 - 4/07

- B. Professional activities for non-college audiences or organizations (judging, juries, consulting, organizing events, etc.)**

- C. Service to the profession, e.g. committee work for or offices held in professional associations**

Co-organized special session in dynamical systems at American Mathematical Society Spring Southeastern Section Meeting, Davidson, NC, 3/07.

- D. List conferences attended, panels chaired or participated in, etc.**

Carolinas Dynamics Symposium, Davidson, NC, April 2006.  
 Summer Conference on Topology and its Applications, Statesboro, GA, July 2006.  
 Joint Mathematics Meetings, New Orleans, LA, January 2007.  
 American Mathematical Society Spring Southeastern Section Meeting, Davidson, NC, 3/07.

- E. Community service**

Packed meals for Project Open Hand for Community Day, 5/06.  
 Planted grass at United Methodist Children's Home for Inaugural Outreach Day, 4/07.  
 Gardened with Trees Atlanta for Community Day, 5/07.

Donated 6 pints of blood.
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**F. Professional development related to service: workshops or seminars, etc.**

Attended SpARC oral assessment training, led by Laura Palucki-Blake and Wendy Atkins-Sayre, 4/07.
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**G. Grants received and requested, awards, honors related to service.**

**1. Grants received or requested:**

Source and status	Title, purpose	Date begin/end	Amount

**2. Awards, honors, and recognition (from college, city, state, national or international professional organizations including fellowships, memberships, tenure, promotion).**

Award or honor	Source	Date