

## Jill Hardin Wilson

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### Education

- Ph.D. Algorithms, Combinatorics, and Optimization  
Georgia Institute of Technology, December 2001
- M.S. Operations Research  
Georgia Institute of Technology, May 2001
- B.S. Mathematics, minor in Computer Science  
University of Kentucky, May 1996

### Professional Experience

#### *Northwestern University, Industrial Engineering and Management Sciences*

##### *Assistant Department Chair for Undergraduate Studies*

2017– Professor of Instruction  
2011–2017 Clinical Associate Professor

#### *Virginia Commonwealth University, Statistical Sciences and Operations Research*

2007–2011 Associate Professor  
2001–2007 Assistant Professor

#### *Georgia Institute of Technology, School of Industrial and Systems Engineering*

2002 (summer) Visiting Scientist  
1996–2001 Graduate Teaching & Research Assistant

#### *United Airlines, Elk Grove, IL*

1997 (summer) Intern, United Airlines

#### *University of Kentucky, Department of Mathematics*

1994–1995 Undergraduate Research Assistant

### Honors

1. Charles Deering McCormick Distinguished Professor of Instruction, 2018-2021.
2. Recognition for Teaching and Advising Excellence, Robert R. McCormick School of Engineering and Applied Science, Northwestern University, 2014.
3. ASG Faculty and Administrator Honor Roll, Northwestern University, 2012, 2013, 2014.
4. Faculty Guest Coach, Northwestern University Football, Fall 2013.
5. Distinguished Teaching Award, VCU College of Humanities and Sciences, 2011.
6. Fellow, Achievement Rewards for College Scientists, Atlanta Chapter, Fall 1998–Summer 2001.
7. Presidential Fellow, Georgia Institute of Technology, Fall 1996–Spring 2000.
8. Science and Engineering Education Scholars Program, University of Illinois, Summer 2000.
9. NSF/GEE Fellow, Georgia Institute of Technology, Fall 1996–Spring 1997.
10. Otis A. Singletary Scholar, University of Kentucky, Fall 1992–Spring 1996.

## Professional Memberships

2000– Institute for Operations Research and the Management Sciences (INFORMS)  
2011– Institute of Industrial Engineers (IIE)  
2011– American Society for Engineering Education  
2005–2006 National Council of Teachers of Mathematics

## *Teaching*

### Courses Taught

#### *Northwestern*

- IEMS 202 Probability
- IEMS 310 Operations Research
- IEMS 313 Deterministic Models and Optimization
- IEMS 393-1 Industrial Engineering Design Project
- IEMS 407 Decision Tools for Managers

*VCU*: A variety of courses in statistics and operations research, from introductory through PhD levels; teacher preparation courses to develop K-5 mathematics specialists and highly qualified middle school math teachers.

## Curriculum Development

### Northwestern Curriculum Development

1. Led development of Approved Course Equivalencies for Northwestern exchange partners abroad to increase access to study abroad for industrial engineering majors. Adopted by Global McCormick.
2. Coordinated development of new honors program option for industrial engineering students through the Master of Science in Analytics program.
3. Oversaw curriculum changes to the BS in Industrial Engineering, including changing senior design requirements and introducing stronger computing requirement.
4. Converted IEMS 407 Decision Tools for Managers from a traditional format (one 3-hour lecture per week) to a hybrid format. Video lectures (44 video segments, 535 instructional minutes), associated exercises, and practice problems/solution developed for independent online use, class exercises available for in-class use.
5. Chair of Designing Senior Design Committee, responsible for redesigning student client project experience, AY 2017-2018.
6. Chair of Client Project Experience Implementation Committee, AY 2018-2019.
7. Awarded a \$2000 Murphy Society grant to develop training for McCormick faculty in dealing with students in distress, work together with Dr. Marita Labeledz Poll.

## Self Development

1. INFORMS Teaching Effectiveness Colloquium VII, November 2004
2. Summer Institute on Teaching and Learning, VCU Center for Teaching Excellence, May 2007.
3. VCU Leadership Development Program, Grace E. Harris Leadership Institute, 2011

4. New Faculty Workshop, Northwestern University Searle Center for Teaching Excellence, Fall 2011.
5. Master Advisor Certification Program, VCU, February 2005, April 2006, May 2008.
6. Poynter Institute Diversity Workshop, VCU, August 2004.
7. QPR Suicide Prevention Gatekeeper Training Program, Northwestern, Fall 2013
8. Northwestern University Educational Technology Teaching Fellow, 2017-2018.

### **Service Contributions to Teaching**

1. VCU Core Competencies Written and Oral Assessment Team, 2003, 2006.
2. VCU Focused Inquiry Implementation Team, Academic Year 2005–2006.
3. Case Discussion Leader, invited, INFORMS Teaching Effectiveness Colloquium VII, “Effective Teaching with Cases,” mock classroom exercise using cases, November 2005.
4. Invited Speaker, Global McCormick Luncheon, Northwestern University, June 2014.
5. Invited Speaker, Murphy Scholars Program Seminar, Northwestern University, Fall 2014, 2017.
6. Sponsor, “When Will I Ever Use this?,” Professional Development Workshop for High School Teachers, July 2015.
7. Invited Lecturer, Northwestern Family Weekend, Fall 2014, 2015, 2016.
8. Invited Panelist, “Navigating Northwestern Academics,” Searle Center Undergraduate Academic Support and Enrichment Program, Fall 2017.
9. Invited Panelist, Northwestern University Learning, Teaching and Assessment Forum, Fall 2017.

## *Service*

### **Service to Department (Northwestern)**

1. Undergraduate Committee, Chair, 2011–present.
2. Strategic Planning Committee, 2011–2014.
3. Faculty Advisor, Northwestern Student Chapter of the Institute of Industrial Engineers, 2011–2016.
4. Program Improvement
  - a. Implemented systematic approach to handling large number of course waitlist requests
  - b. Created dIvErsion, an informal social gathering to foster interaction among IEMS undergraduate students and faculty
  - c. Led development of new pretest assessment plan, including development, deployment, review, and analysis of tests, incentives, IT solutions and outcomes.
  - d. Implemented group advising sessions for all new industrial engineering majors.
  - e. Created new staff advising position and developed innovative advising model to increase student access to faculty and satisfaction with advising.
5. PhD Candidacy Exam Panelist, 2013, 2016, 2017.
6. IEMS Senior Ceremony, planning and oversight, 2011–present.
7. Designing Senior Design, Chair, 2017-2018
8. Client Project Challenge Implementation, Chair, 2018–present.

### **Service to McCormick**

1. NU McCormick Curriculum Committee, 2011–present.
2. NU McCormick ABET Committee, 2011–2017.
3. NU McCormick Undergraduate Council, 2011–2016.
4. Judge, NU Segal Design Institute Design Expo, Fall 2011.
5. Induction Ceremony, NU Order of the Engineer, Spring 2012, 2013, 2014.
6. NU McCormick Advising Task Force, Spring 2013.
7. NU McCormick Freshman Advisor Search Committee, Spring 2013, Spring 2017.
8. Teaching Mentor, Northwestern CIRTL Mentored Discussions of Teaching, Spring 2013, Fall 2014, Spring 2016, Winter 2017.
9. Mickelson Prize Committee, 2012-2016.

### **Service to Northwestern**

1. NU SES Class Planner Requirements Group, 2011–2014.
2. Panelist, Northwestern Kappa Phi Lambda Female Empowerment Panel, April 2013.
3. McCormick Representative, Faculty Appeals Panel, Fall 2016—present.
4. Participant, Undergraduate Lifecycle Forum, Northwestern University, May 2019
5. Undergraduate Lifecycle Committee, Resources: Academic, Co-Curricular, and Community Workgroup, Spring 2019.

### **Service to Professional Societies**

1. Organized visit by Karla Hoffman, George Mason University, to present at a meeting of the Richmond-Tidewater chapter of INFORMS, September 2002.
2. Chair's Designee, Association of Chairs of Operations Research Departments (ACORD), March 2003–March 2005.
3. Vice-President/Meetings, INFORMS Forum on Women in OR/MS (WORMS), March 2003–March 2005. Planned and raised sponsorship funds for welcome reception and business luncheon at the INFORMS 2004 Annual Meeting.
4. Nominee, President-elect, WORMS, March 2005.
5. Senior Mentoring Award Selection Committee, WORMS, 2005, 2006.
6. President-elect, WORMS, March 2006–March 2007.
7. President, WORMS, March 2007–March 2008.
8. Vice-President/Programs, INFORMS Forum on Education (INFORM-ED), November 2005–November 2007.
9. Invited Chair, INFORMS Computing Society Education Committee, 2007.
10. Chair, INFORMS Combined Colloquia, Fall 2007–Fall 2009.
11. Nominee, INFORMS Vice President for Membership and Professional Recognition, for Term 2012.
12. Search Committee for Editor-in-Chief of *INFORMS Transactions on Education*, 2012.
13. Board of Directors, INFORMS Computing Society, November 2011–November 2014.
14. Panelist, AAUW Selected Professions Fellowship Selection Panel, March 2013, 2014, 2016, 2017.
15. Membership Committee, INFORMS, January 2014–April 2016.
16. Vice President-Education, INFORMS Board of Directors, January 2015–December 2018.
  - a. INFORMS Combined Colloquia Committee (ex officio)
  - b. INFORMS Education Strategy Committee (Chair)
  - c. INFORMS Education Outreach Committee (ex officio)
  - d. INFORMS Education Programs Database Committee (ex officio)

- e. INFORMS University Analytics Committee (ex officio)
- f. INFORMS Continuing Education Committee (ex officio).
- 17. Co-chair, Ad Hoc Committee on Scholarships, INFORMS, 2016; ex officio 2018.
- 18. Analytics Program Directors' Meeting Committee, INFORMS, 2016-2017.
- 19. Committee on the Board, INFORMS, 2016-2017.
- 20. Organizing Committee, 2017 INFORMS Student Operations Research and Analytics Competition.
- 21. Panelist, NSF Graduate Research Fellowships Program, 2017-2018.
- 22. *INFORMS Transactions on Education* review committee, spring 2019.

### Service to Academic Conferences

- 1. Cluster Chair, WORMS, INFORMS Annual Meeting, October 2004.
- 2. Session Chair, *Use of Technology in OR Education*, invited, INFORMS Annual Meeting, October 2004.
- 3. Session Chair, *Decision-Making in Supply Chains I*, INFORMS Annual Meeting, November 2005.
- 4. Cluster Chair, INFORM-ED, INFORMS Annual Meeting, November 2006.
- 5. Session Co-Chair, *Academic and Industry Collaboration: Education and Training*, invited, INFORMS Annual Meeting, November 2006.
- 6. Session Co-Chair, *Academic and Industry Collaboration: Research and Development*, invited, INFORMS Annual Meeting, November 2006.
- 7. Cluster Chair, INFORM-ED, INFORMS Annual Meeting, November 2007.
- 8. Cluster Chair, WORMS, INFORMS Annual Meeting, November 2007.
- 9. Session Chair, *ICS Education Committee*, INFORMS Annual Meeting, November 2007.
- 10. Session Chair, *ICS Education Committee*, INFORMS Annual Meeting, October 2008.
- 11. Session Chair, *Innovative Uses of Technology in the OR/MS Classroom*, INFORMS Annual Meeting, October 2008.
- 12. Session Chair, APORS 2009, Jaipur, India.
- 13. Session Co-Chair, *Feature Articles from Recent Issues of INFORMS Transaction on Education and Discussion of the ITE Review & Publication Process*, INFORMS Annual Meeting, October 2012.

## Research

### Refereed Publications

- 1. Hardin, J., J. Lee, and J. Leung. "On the Boolean-Quadric Packing Uncapacitated Facility-Location Polytope," *Annals of Operations Research* 83 (1998), 77-94.
- 2. Campbell, A.M., and J.R. Hardin. "Vehicle Minimization for Periodic Deliveries," *European Journal of Operational Research* 165 (2005), 668-684.
- 3. Hardin, J.R. and A.J. Ellington. "Using Multimedia to Facilitate Software Instruction in an Introductory Modeling Course," *INFORMS Transactions on Education* 5 (2005).
- 4. Norback, J.S., and J.R. Hardin. "Integrating Workplace Communication into Senior Design," *IEEE Transactions on Professional Communication* 48 (2005), 413-426.
- 5. Hardin, J.R., G.L. Nemhauser, and M.W.P. Savelsbergh. "Analysis of Bounds for a Capacitated Lot-Sizing Problem," *Computers and Operations Research* 34 (2007), 1721-1743.

6. Merrick, J.R.W., J.R. Hardin, and Walker, R. "Partnerships in Training." *Interfaces* 36 (2006), 359-370.
7. Ellington, A.J., and J.R. Hardin. "The Use of Video Tutorials in a Mathematical Modeling Course Taken by Pre-service Teachers," *Mathematics and Computer Education*, Spring 2008.
8. Hardin, J.R., G.L. Nemhauser, and M.W.P. Savelsbergh. "Strong Valid Inequalities for the Resource-constrained Scheduling Problem with Uniform Resource Requirements," *Discrete Optimization* 5 (2008), 19-35.
9. Grossman, T.A., J.S. Norback, J.R. Hardin, and G.A. Forehand. "Managerial Communication of Analytical Work," *INFORMS Transactions on Education* 8 (2008).
10. Ellington, A.J. and J.H. Wilson. "Use of Tablet PCs to Enhance Instruction and Promote Group Collaboration in a Course to Prepare Future Mathematics Specialists," *Math and Computer Education* (2011).
11. Hardin, J., A. Holder, J.C. Beck, K. Furman, A. Hanna, D. Rader and C. Rego. "Recommendations for an Undergraduate Curriculum at the Interface of Operations Research and Computer Science," *INFORMS Transactions on Education* 12 (2012), 117-123.
12. Campbell, A. and J. Hardin Wilson. "Forty Years of Periodic Vehicle Routing," *Networks* 63 (2014), 2-15.
13. Srinivasan, S., J. P. Brooks, and J. Hardin Wilson. "Batching-based Approaches for Optimized Packing of Jobs in the Spatial Scheduling Problem," *Optimized Packings and Their Applications*, Eds. J. D. Pintér and G. Fasano.

#### Non-refereed Publications

1. Norback, J., D. Llewellyn, and J.R. Hardin. "Integrating Workplace Communication Into Undergraduate Engineering Curricula," *ORMS Today* 28:4 (2001), 33-35.
2. Street IV, W.S., and J.R. Hardin, "A Writing Intensive Course in Statistics & Operations Research," *2003 Proceedings of the American Statistical Association*, Section on Statistical Education [CD-ROM], Alexandria, VA: American Statistical Association, 2003.
3. Hardin, J., E. Akcali, A. Campbell, and J. Lowe. "2008 INFORMS Combined Colloquia," *OR/MS Today* 35:3 (2008).
4. Hardin, J., J. Lowe, D. Rader, and D. Llewellyn. "Teaching Colloquium," *OR/MS Today* 35:3 (2008).
5. Cochran, J., J. Hardin, A. Ingolfsson, and G. Zaric. "Online Journal in Transition," *OR/MS Today* 35:4 (2008).
6. Drake, M., J. Hardin and C. Ragsdale. "Teaching Colloquium," *OR/MS Today* 36:3 (2009).
7. Wilson, Jill Hardin. Review of *Probability* by Lawrence Leemis. *INFORMS Journal on Computing* 24 (2012), BR1-Br13.

#### Invited Presentations

1. "Using Integer Programming Techniques to Solve Scheduling Problems," Richmond-Tidewater chapter of INFORMS, October 2001.
2. "Using Integer Programming Formulations to Solve Scheduling Problems," Department of Computer Science Colloquium, The College of William and Mary, February 2002.
3. "A Writing Intensive Course in Statistics and Operations Research," joint presentation with W. Scott Street IV, Department of Biostatistics Colloquium, March 2002.
4. "A Writing Intensive Course in Statistics and Operations Research," Fall INFORMS Meeting, San Jose, CA, November 2002.

5. "Facet-defining Inequalities for the Problem of Scheduling Jobs with Uniform Resource Requirements," Fall INFORMS Meeting, Atlanta, GA, October 2003.
6. "Implementation of a Course on Communications in Statistics and Operations Research," Fall INFORMS Meeting, Atlanta, GA, October 2003.
7. "Using Multimedia Tutorials for Software Instruction in an Undergraduate Modeling Course," Fall INFORMS Meeting, Denver, CO, October 2004.
8. "Machine Scheduling: Easy or Hard?" Maggie L. Walker Governor's School, Operations Research class, December 2004.
9. "Partnerships in Training", Fall INFORMS Meeting, Pittsburgh, PA, November 2006.
10. "An Interactive Panel/Audience Discussion: Planning, Designing, and Preparing to Teach a New Course", Invited Panelist, Fall INFORMS Meeting, Pittsburgh, PA, November 2006.
11. "Vehicle Minimization for Periodic Deliveries", VCU Discrete Mathematics Seminar, April 6, 2007.
12. "Recommendations of the INFORMS Computing Society Education Committee," Invited Panelist, Fall INFORMS Meeting, Seattle, WA, November 2007.
13. "Use and Perception of Digital Whiteboard Notes by Graduate Students in an Analytical Course," VCU Center for Teaching Excellence Tablet PC Program, March 19, 2007.
14. "Seeking a Career in Higher Ed?" Invited Panelist, CTE Adjunct Faculty Learning Community Faculty Forum, March 27, 2008.
15. "Recommendations of the INFORMS Computing Society Education Committee," Fall INFORMS Meeting, Washington, DC, October 2008.
16. "Opportunities to Shape the Future," Invited Panelist, Fall INFORMS Meeting, Washington, DC, October 2008.
17. "Use and Impact of Digitally Inked Notes in a Graduate OR/MS Course," Fall INFORMS Meeting, Washington, DC, October 2008.
18. "Getting Started in Your Teaching Career," Future Academician Colloquium, Fall INFORMS Meeting, Washington, DC, October 2008.
19. "Seeking Approximation Methods for Lot-sizing," VCU Department of Computer Science Seminar Series, February 2009.
20. "Impact of Digital Whiteboard Notes on Student Perceptions of Learning in a Graduate OR/MS Course," VCU Center for Teaching Excellence Tablet PC Program, April 2009.
21. "Best Practices in OR/MS Education," Tutorial, CORS/INFORMS Joint Meeting, Toronto, June 2009.
22. "Best Practices in OR/MS Education," INFORMS Annual Meeting, San Diego, October 2009.
23. "Best Practices in OR/MS Education," APORS 2009, Jaipur, India, December 2009.
24. "Improving Teaching Effectiveness: Tips from Seasoned Faculty", Invited Panelist, Fall INFORMS Meeting, Austin, TX, October 2010.
25. "Strong Valid Inequalities for Resource-constrained Scheduling," Industrial Engineering and Management Science Seminar, Northwestern University, January 2011.
26. "Seeking Approximation Methods for Lot-sizing," VCU Department of Statistical Sciences and Operations Research Seminar Series, February 2011.
27. "Challenging Mental Models," INFORMS Teaching Effectiveness Colloquium, INFORMS Annual Meeting, Phoenix, October 2012.
28. "Publishing in INFORMS Transactions on Education," Invited Panelist, Fall INFORMS Meeting, Philadelphia, November 2015.
29. "Publishing in INFORMS Transactions on Education," Invited Panelist, Fall INFORMS Meeting, Philadelphia, October 2017.

#### **Contributed Presentations**

1. "On the Boolean-Quadric Packing Uncapacitated Facility-Location Polytope," Fall INFORMS Meeting, New Orleans, November 1995.
2. "Using Workplace Context to Improve Undergraduate Communication Skills," with J. Norback, Fall INFORMS Meeting, Miami, November 2001.
3. "Vehicle Minimization for Periodic Deliveries," Fall INFORMS Meeting, New Orleans, November 2005.
4. "Use of Pretesting to Assess Retention of Prerequisite Knowledge," Fall INFORMS Meeting, Philadelphia, November 2015.

### **Professional Training**

1. "System Simulation—Modeling and Analysis," Secondary Instructor, Capital One Services, \$22,272, December 2002.
2. "Optimization Modeling and Analysis," Primary Instructor, Capital One Services, \$46,000, June 2003–August 2003.
3. "Optimization Modeling and Analysis," Primary Instructor, Capital One Services, \$19,125, January 2004–February 2004.

### **Internal Funding**

1. "Development of a Writing Intensive Course for the Department of Statistical Sciences and Operations Research," VCU Center for Teaching Excellence, \$3500, May 2002–May 2003. Co-PI: W. Scott Street, IV.
2. "Development of Multimedia Tutorials to Aid Spreadsheet Modeling Instruction," VCU Instructional Technology, equipment award (laptop and software), May 2003–May 2004.
3. Award to Enhance Student Engagement, VCU College of Humanities and Sciences, \$5000, January 2006–December 2006.
4. Tablet PC Program, VCU Center for Teaching Excellence, IBM Lenovo Tablet PC, July 2007–May 2008.

### **Sponsored Research**

1. Co-PI, "Exploiting Network Structure in Routing Problems: Applications to School Bus Routing," National Science Foundation Grant No. 1727744, (2017-2021). PI: Karen Smilowitz, Co-PI Sunil Chopra. Attached REU and RET supplements for 2018 and 2019.
2. Teaching Faculty, "Mathematics Specialist in K-5 Schools: Research and Policy Pilot Study," NSF, July 2005, August 2007. PIs: Reuben W. Farley, Patricia F. Campbell, Phillip E. McNeil, Vickie Inge, and William C. Boshier.
3. Teaching Faculty, "Preparing Highly Qualified Middle School Teachers Across Virginia," Virginia Department of Education, VCU sub-award \$69,660, May 2005–July 2006. PI: Aimee J. Ellington.
4. Teaching Faculty, "Preparing Highly Qualified Middle School Teachers Across Virginia," Virginia Department of Education, VCU sub-award \$45,000, March 2006–September 2007. PI: Aimee J. Ellington.
5. Teaching Faculty, "Virginia Algebra Project," Virginia Department of Education, VCU sub-award \$50,000, October 2009–September 2010. PI: Aimee J. Ellington.

### **Consulting Activity**

1. VCU Department of Criminal Justice. Course planning and scheduling, Summer 2005.



2. Huguenot Road Baptist Church (HRBC), Richmond, VA. Worked with VCU students to improve patron movement through a one-day clinic offering free medical, financial, and personal care services to the community, Spring 2006.
3. VCU Focused Inquiry Program. Course planning and faculty scheduling, Fall 2006.
4. Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation. Realignment of regional watershed office assignments. Work with Sudharshana Srinivasan, completed Summer 2009.

#### **Editorships and Reviews**

1. Area Editor for Cases, *INFORMS Transactions on Education*, March 2007—March 2018.
2. Associate Editor, *INFORMS Case and Teaching Materials*, March 2006–May 2008.
3. Reviewer, *Introduction to Operations Research*, 7<sup>th</sup> edition, Hillier & Lieberman, McGraw-Hill Higher Education, Fall 2002.
4. Reviewer for *Applied Mathematical Modeling*, *Computers and Operations Research*, *INFORMS Journal on Computing*, *INFORMS Transactions on Education*, *Interfaces*, *International Journal of Production Economics*, *Operations Research Letters*, *Optimization Methods and Software*, *Transportation Science*

#### **Advisor for Dissertations, Theses, Applied Projects, and Research Seminars**

1. Brooke Arnold, “An Integer Program that Schedules 141 Flight School Semesters.” MS Applied Project advisor, Summer 2006.
2. Kevin Bryan, “Generalized Second Price Auctions with Hierarchical Bidding.” Department of Mathematics and Applied Mathematics, MS Thesis advisor, Summer 2008.
3. Jametta Thomas Myers, “Applications of Operations Research in Domestic Electric Utilities.” MS Thesis advisor, Fall 2008.
4. Sudharshana Srinivasan, “Modeling the assignment problem: Virginia’s localities to DCR’s Regional Offices.” Department of Mathematics and Applied Mathematics, MS Thesis advisor, Summer 2009.
5. Subhashini Srinivasan, “Modeling the Homeschool Timetabling Problem Using Integer Programming.” MS Thesis advisor, Summer 2011.
6. Sudharshana Srinivasan, *Spatial Scheduling Algorithms for Production Planning Problems*, PhD program in Systems Modeling and Analysis, Dissertation advisor, Summer 2014.
7. Research Seminar Advisor for seven students between Fall 2002 and Spring 2008.

#### **Committee Member for Dissertations, Theses, and Applied Projects**

1. Corell Halsey-Moore, MS Thesis committee member, Department of Mathematics and Applied Mathematics, Spring 2002.
2. Bandana Kumari, MS Thesis committee member, Department of Statistical Sciences and Operations Research, Fall 2007.
3. Anwar Ahmed, Dissertation committee member, Department of Biostatistics, Spring 2010.
4. Michael Hobson, MS Thesis committee member, Department of Statistical Sciences and Operations Research, Spring 2010.
5. Colleen McFadden, MS Thesis committee member, Department of Mathematics and Applied Mathematics, Spring 2011.

