Contact Information	Dept. of Mathematics & Computer Science Samford University 800 Lakeshore Drive Birmingham, AL 35229 USA	Voice: (205) 726-2454 Fax: (205) 726-4271 E-mail: JSPOWEL1@samford.edu	
Research Interests	Graph theory & Combinatorics Specific Areas: Path and cycles, H-linkages, social network analysis, efficient network design		
Academic Experience	Samford University, Birmingham, Alabama US Professor of Mathematics Interim Chair, Mathematics & Computer Science Associate Professor of Mathematics Assistant Professor of Mathematics	A August 2019-Present August 2017-August 2021 August 2012-August 2019 August 2006 - August 2012	
	Emory University , Atlanta, Georgia USA <i>Teaching Associate</i>	August 2001- August 2006	
Education	 Emory University, Atlanta, Georgia USA Ph.D., Mathematics, August 2006. Dissertation: "Two Questions About Connectivity in Graphs" (Advisor: Ron Gould) Furman University, Greenville, South Carolina USA B.S., Mathematics (summa cum laude), June 2001 		
 Peer-Reviewed Publications In Print: (Note that mathematical publications list authors alphabetically.) 1. Lydia E. Kenney and Jeffrey S. Powell. The <i>H</i>-linked Degree-Sum F Graph Families. <i>Involve</i> 10 (2017), no. 4, 707-720. 2. Michael Ferrara, Ronald Gould, Silke Gehrke, Colton Magnant, and Jeffr ity of 4-connected {Claw, Generalized Net}-Free Graphs. <i>Discrete Mat</i> no. 4, 460-467. 		he <i>H</i> -linked Degree-Sum Parameter for Special	
	3. Ralph Faudree, Ronald Gould, and Jeffrey Powell. Property $P_{d,m}$ and Efficient Design Reliable Networks. <i>Networks</i> 60 (2012), no. 3, 167-178.		
	obson, Florian Pfender, Jeffrey Powell and Thor ked Graphs. <i>Journal of Graph Theory</i> , 71 (2012),		
	rey Powell. Characterizing Degree-Sum Maximal Mathematics, 312 (2012), no. 2, 459-461.		
	 Michael Ferrara, Colton Magnant, and Jeff Combinatorics, 26 (2010), 225-242. 	rey Powell. Pan-H-linked Graphs. Graphs and	
	 Ronald Gould, Jeffrey Powell, Brian Wagner k-Linked Graphs. Discrete Mathematics, 309 	r, and Thor Whalen. Minimum degree and Pan- (2009), no. 10: 3013-3022.	
	8. Scott P. Martin, Jeffrey S. Powell, and Doug Cartesian product of caterpillars. Ars Comba	glas F. Rall. On the independence number of the <i>inatoria</i> , 60 (2001): 73-84.	

Conferences Attended

- 1. AMS-MAA Joint Mathematics Meeting, Virtual Conference, January 2021
- 2. 67th Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Huntingdon College; March 2019
- 3. AMS-MAA Joint Mathematics Meeting, San Diego, CA, January 2018
- 4. 2017 American Association for Marriage and Family Therapy Annual Conference; Atlanta, GA October 2017
- 65th Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Samford University; February 2017
- 6. AMS-MAA Joint Mathematics Meeting, Atlanta, GA, January 2017
- 7. 17th Atlanta Lecture Series on Graph Theory and Combinatorics, Georgia State University, April 2016
- 8. MAA Southeastern Section Meeting, University of Alabama-Birmingham, March 2016
- 9. Recent Advances in Linear Algebra and Graph Theory, University of Tennessee-Chattanooga, March 2016
- 10. Troy Mathfest Undergraduate Conference, Troy University, April 2015.
- 11. AMS-MAA Joint Mathematics Meeting, San Antonio, TX; January 2015.
- 12. MAA Southeastern Section Meeting, Tennessee Tech University, March 2014
- 13. MAA Southeastern Section Meeting, Winthrop University, March 2013.
- 14. 61st Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Birmingham Southern College; February 2013.
- 15. Cycles in Graphs Conference, Vanderbilt University, May 2012.
- 16. MAA Southeastern Section Meeting, Clayton State University, March 2012.
- Southeastern Council on Family Relations (SECFR) Annual Conference, Chattanooga, TN, February 2012.
- 18. MAA Southeastern Section Meeting, University of Alabama, April 2011.
- 19. 61st Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Huntingdon College; February 2011.
- 20. Southeastern REU Symposium (SeREUS), University of North Carolina-Asheville; July 2010.
- 21. MAA Southeastern Section Meeting, Elon University, March 2010.
- 60th Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Tuskegee University; February 2010.
- 59th Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Jacksonville State University; February 2009.
- 24. AMS Southeastern Section Meeting, University of Alabama in Huntsville; October 2008.
- 21st Cumberland Conference on Combinatorics, Graph Theory, and Computing, Vanderbilt University; May 2008.
- 58th Annual Meeting of the Alabama Assoc. of College Teachers of Math.(AACTM), Samford University; February 2008.
- 27. MAA Mathfest, San Jose, CA; August 2007.
- 20th Cumberland Conference on Combinatorics, Graph Theory, and Computing, Emory University; May 2007.
- 57th Annual Meeting of the Alabama Assoc. of College Teachers of Math.(AACTM), University of Alabama; February 2007.
- 30. AMS-MAA Joint Mathematics Meeting, New Orleans, LA; January 2007.

- 31. MAA Mathfest, Knoxville, TN; August 2006.
- 32. AMS-MAA Joint Mathematics Meeting, San Antonio, TX; January 2006.
- 33. 20th Mini-conference on Discrete Math. & Algorithms, Clemson University; October 2005.
- 34. AMS-MAA Joint Mathematics Meeting, Atlanta, GA; January 2005.
- 35. Vanderbilt Workshop on Graph Factors, Vanderbilt University; December 2003.
- 36. AMS-MAA Joint Mathematics Meeting, New Orleans, LA; January 2001.
- 37. AMS-MAA Joint Mathematics Meeting, Washington, D.C.; January 2000.

Conference and Invited Presentations:

- 1. MAA Session on Using Mathematics to Study Problems from the Social Sciences, AMS-MAA Joint Mathematics Meeting, January 2018; "Gatekeeping and the Professional Network of Therapist Supervisors."
 - 2. Forum (with Dr. Jonathan Davis) for American Association for Marriage and Family Therapy (AAMFT), AAMFT Annual Conference, October 2017; "Supervisor Relationship Networks"; hour-long interactive talk; attendees eligible for continuing education credit.
 - MAA Session on Integrating Research into the Undergraduate Classroom, AMS-MAA Joint Mathematics Meeting, January 2017; "Mickey Mouse, Kevin Bacon, and How Undergraduate Research Opened a Whole New World For Me."
 - 4. Special Session Talk, MAA Southeastern Section Meeting, March 2014; "My Trek into the Great Online Unknown"
 - 5. Refereed Contributed Talk (with Dr. Jonathan Davis), Southeastern Council on Family Relations (SECFR) Annual Conference, February 2012; "Family Therapy Supervisor Networks."
 - 6. Plenary Speaker, Southeastern REU Symposium (SeREUS), University of North Carolina-Asheville, July 2010; "Six Handshakes Away from the President?: An Introduction to Small-World Networks."
 - 7. Special Session Talk, MAA Southeastern Section Meeting, March 2010; "Examining Life's Big Questions in Contemporary Math (?!)"
 - 8. Contributed Paper, AMS Southeastern Section Meeting, November 2008; "Minimum Degree Conditions for Subdivision Extensions and Pan-*H*-linked Graphs."
 - 9. 58th Annual Meeting of the AACTM, February 2008; "A Brief Introduction to Small-World Networks."
- 10. 57th Annual Meeting of the AACTM, February 2007; "Minimum Degrees and the Six Degrees of Kevin Bacon."
- 11. Contributed Paper, AMS-MAA Joint Mathematics Meeting, January 2007; "A New Orecondition for *H*-linked Graphs."
- Contributed Paper, AMS-MAA Joint Mathematics Meeting, January 2006; "Menger Path-Systems and Minimum Graph Size."
- 13. Contributed Paper, AMS-MAA Joint Mathematics Meeting, January 2001; "On the Independence Number of the Cartesian Product of Caterpillars."

University Presentations:

- Panel (with six others), Samford University Mini-Conference on Teaching & Learning, August 2018; "Assessing Student Learning on General Education Outcomes: Process, Progress, and Early Results."
- Kappa Mu Epsilon Invited Speaker, Birmingham Southern College, November 2011; "Six Handshakes Away from the President?: An Introduction to Small-World & Scale-free Networks."

Scholarly Presentations

	3. Faculty Shop Talk, Samford University, October 19, 2010; "Crickets, Kevin Bac trical Lines: The Mathematics of Small-world & Scale-free Networks."	on, and Elec-	
	 Colloquium Talk, University of Akron, March 2009; "The Six Degrees of Small-World Networks." Colloquium Talk, Samford University, November 2008; "Electrical Lines, Crickets, and Kevin Bacon: An Overview of Small-World Networks." Colloquium, Furman University, November 2005; "Efficient Design of Reliable Networks." 		
	Community Presentations: Birmingham Darwin's Tavern Group, June 2016; "Is It a Small World After A duction to Networks" 	ll? An Intro-	
	2. General Talk, Hoover High Mathematics Team Camp, June 2008; "Flatland a Characteristic."	nd the Euler	
Honors, Awards, and Grants	• Howard College of Arts & Sciences Dean's Teaching Award	August 2020	
	• Samford University Faculty Development Grant (\$2,325) Funded Activity: "Determining Minimum Degree Conditions for Pan-H-li	January 2008 nked Graphs"	
	• Exxon-Mobil National Project NExT Fellow (Sepia Dot) August 2006 NExT is an MAA Program for recent Ph.D. recipients	-August 2007	
Undergraduate Research & Senior Projects	• Senior Project r Title: An Investigation of Game Theory Students: Brooke Howard, Justin Young	Spring 2020	
	• Senior Project Title: An Exploration of Mathematical Modeling Using Fluid Dynamics Students: Lyra Lapuyade, Olivia Samples	Spring 2019	
	• Senior Project Title: <i>Teaching Mathematics Using History and Visual Proofs</i> Students: Mackenzie Epps, Kyla Kugler	Spring 2018	
	• Senior Project Title: <i>Minimizing Areas and Volumes with Lagrange Multipliers</i> Students: Jeff Dzugan, Aaron Pendleton, Meredith Robinson Presented at the Troy University Mathfest in April 2015	Spring 2015	
	• Senior Project Title: <i>Ramsey Numbers and Bounds</i> Student: Megan Reneau	Spring 2014	
	• Senior Project Title: Wide Diameter, Hypercubes, and Network Design Student: Nick Dzugan Presented at the MAA Southeastern Section Meeting in March 2013	Spring 2013	
	• Senior Project Title: <i>Counting Asymmetric Rhythms</i> Student: Lydia East	Spring 2012	
	• Samford Undergraduate Research Program Title: Determining H-linked Degree-sum Parameters for Certain Classes of Student: Lydia East Results accepted for publication in refereed journal Involve	Summer 2011 Graphs	

	• Senior Project Topic: <i>Leontief Economic Models</i> Student: Brittany Ross	Spring 2011	
	• Senior Project Topic: Vertex-Transitive Graphs in Network Design Student: Jonathan Jenkins	Spring 2010	
	 Senior & Honors Project Topic: Centrality Measures in Social Network Analysis Student: Corley Henderson Presented at the MAA Southeastern Section Meeting in March 2009 	Spring 2009	
	• Senior Project Topic: <i>Markov Chains and Baseball</i> Student: Andrew Crisp	Spring 2009	
	• Samford Undergraduate Research Program Title: Using Mathematica to Model Small-World & Scale-Free Networks Student: Jonathan Jenkins	Summer 2008	
Courses Taught (Through Spring 2022)	Samford University: Undergraduate: MATH 110: Contemporary Math, MATH 150: Pre-Calculus, M culus I, MATH 260: Calculus II, MATH 270: Calculus III, MATH 280: Introduct Mathematics; MATH 330: Differential Equations; MATH 340: Linear Algebra, MA Calculus, MATH 370: Mathematical Statistics, MATH 430: Abstract Algebra, MA Seminar, MATH 495: Senior Project, COSC 200: Discrete Structures	ion to Advanced ATH 350: Vector	
	Graduate: MATE 560: Discrete Mathematics for Teachers		
	Online: MATH 110: Contemporary Math (Developed the online version of this course throu Samford approval process)		
	Emory University: Undergraduate: Introduction to Probability and Statistics, Games and Graphs, Calwith Business Applications	culus I, Calculus	
Service	Professional:		
	• Review Writer, American Mathematical Society (AMS) Mathematical Reviews, February 2011- Present.		
	• Referee, Involve (April 2012-Present), Acta Applicanda Mathematicae (Marc Graphs and Combinatorics (April 2011-Present), Journal of Combinatorics ences (August 2008-Present), Discrete Mathematics (January 2007-Present plied Mathematics (May 2007-Present), SIAM Journal for Discrete Mathematics Present).	and System Sci- t), Discrete Ap-	
	• MAA Project NExT Consultant for 2018 Fellows, August 2018-Present		
	• Co-organizer & Question Writer, Math Jeopardy for the MAA Southeastern Section Meeting, Dates: March 2009, March 2010, April 2011, March 2012, March 2013, March 2014, March 2015, March 2016, March 2017, March 2018.		
	• Co-organizer, 61st Annual Meeting of the Alabama Association of College Teachers of Mathematics (AACTM), Huntingdon College; February 2011		
	• Officer, Alabama Association of College Teachers of Mathematics, Offices held dent (Feb. 2010-Feb. 2011), Vice-President (Feb. 2009-Feb. 2010), Executive (Feb. 2007-Feb. 2009)		

- Judge, Alabama Junior Academy of Science Paper Competition, Mathematics/Engineering and Paper Competition Finals, Samford University. March 21, 2008
- Co-organizer, Project NExT Session, "Increasing the Number of Majors." MAA Mathfest, August 2007
- Reviewer, Brooks/Cole Publishing. Reviewed *Calculus: Concepts and Contexts* 3e by James Stewart, April 2007.
- Judge, MAA Undergraduate Poster Session. AMS-MAA Joint Mathematics Meeting, January 2007.
- Chair, AMS Contributed Paper Session on Combinatorics IV. AMS-MAA Joint Mathematics Meeting, January 2007.
- Co-chair, AMS Contributed Paper Session on Combinatorics III. AMS-MAA Joint Mathematics Meeting, January 2006.

Departmental:

- Committee Member, Math. & CS Chair Search Committee, 2019-2020, 2020-2021 academic years.
- Co-Chair, Search Committee, CS Director Search, 2018-2019 academic year.
- Chair, Search Committee, Math Faculty Positions, 2017-2018 academic year.
- Sponsor, Math Club. Samford University, August 2007-Present.
- Math & CS Advisor, Summer Orientation. Samford University, Numerous times from Fall 2010 to Present.
- Proctor, Alabama Statewide Mathematics Contest (Round 1, District IV). Samford University, Dates: March 28, 2009; March 23, 2011; February 23, 2013, February 28, 2015.
- Committee Member, Math Faculty Search, 2014-2015 academic year.
- Student Supervisor, William Lowell Putnam Mathematical Competition. Samford University, December of each year: 2006-2017.
- Departmental Representative, Samford University Preview Day, Numerous times from Fall 2008 to Present

College & University:

- Search Committee Member, Accounting faculty position, 2019-2020 academic year.
- A & S Representative on the University Faculty Development and Evaluation Committee, Spring 2018.
- Co-chair; Howard College of Arts & Sciences Faculty Development and Evaluation Committee, Fall 2017 to Spring 2018.
- Member, Howard College of Arts & Sciences Faculty Development and Evaluation Committee, one term replacement in Fall 2013, Fall 2015 to Spring 2018.
- A & S Representative, Quality Matters Training, May 2017
- Member, General Education Assessment Pilot Group, Spring 2017
- Member, University General Education Committee, Spring 2015-Spring 2017
- Course Designer, Online Version of MATH 110 (Contemporary Math), Summer 2013
- Howard College of Arts & Sciences Representative, Faculty Senate, August 2010-August 2013.
- Mentor, New Faculty Mentoring Program. Samford University, Academic Years: 2007-2008, 2010-2011, 2011-2012, 2012-2013, 2013-2014, 2014-2015
- Speaker, Howard College of Arts and Sciences Assembly, August 2009-August 2010.

- Vice Speaker, Howard College of Arts and Sciences Assembly, August 2008-August 2009.
- Secretary, Howard College of Arts and Sciences Assembly, August 2007-August 2008.
- Faculty Participant, Samford Outdoor Summer Adventure (SOSA). Bayou La Batre, AL. August 2007.
- Student Advisor, Banner Student Information System Training and Mock II Registration, January 2007.

Miscellaneous:

- Auditor, Miss Samford Pageant, October 2013, October 2014, October 2015, October 2017.
- Host Home, University Ministry Home Groups, Fall 2014-Spring 2015.
- Judge, The Wright Stuff. 2007 Science Olympiad, Division C State Finals. Samford University. March 31, 2007.

ProfessionalMathematical Association of America (MAA), Alabama Association of College Teachers of Mathematics (AACTM)

Honor Societies Phi Beta Kappa, Pi Mu Epsilon, Phi Eta Sigma, Upsilon Pi Epsilon