
Kathleen Campbell Garwood, PhD.

Business Intelligence and Analytics
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Education

Temple University, Philadelphia, Pa

Ph. D. Statistics, August 2014

Dissertation: Extension of Kendall's τ Using Rank-Adapted SVD to Identify Correlation and Factions Among Rankers and Equivalence Classes Among Ranked Elements

Advisor: Dr. Richard M. Heiberger

Committee Members: Dr. William Wei, Dr. Pallavi Chitturi

Villanova University, Villanova, PA, M.S. Applied Statistics, 2004

Drexel University, Philadelphia, PA, B.S. General Business, 2000

Academic Positions and Experience

Saint Joseph's University, Instructor

(September 2004 – Present)

- Initiated the concept and integration of an Online Master's Degree in Business Intelligence.
- Developed curriculum for and currently teach Advanced Business Intelligence and Advanced Decision-Making Tools both in the traditional class and online.
- Researched, organized and created two single credit graduate classes: Math for Graduate Business Studies and Statistics Proficiency. Tested more than 10 different programs before choosing the artificial intelligence Aleks program. This program allows the instructor to hone in on and teach individual students at their own competence levels.
- For MSBI online, I maximize the curriculum by giving 24 hour turn around feedback. Sharing best and worse answers anonymously in real time allows students to see multiple ways to achieve similar results and find potentially better solutions than a simple textbook answer.
- Enable students to be confident and informed decision makers by instructing students in the correct interpretation of output in the traditional undergrad, master, and online classes.

Villanova University, Instructor

(January 2005 - September 2006)

Taught Introductory Statistics I and II. Reviews available upon request.

Strayer University, Instructor

(September 2004 - September 2006)

Taught both undergraduate and graduate courses: Statistics, Pre- Calculus through Calculus II, and QMB.

Monsignor Bonner High School, Teacher

(September 1999 - January 2005)

Taught Grades 10 – 12 all subjects including: Geometry, Algebra II, Trigonometry, Pre-Calculus, and Advanced Placement Statistics.

Research

Refereed Articles

- “Evaluating the Performance of Home Building Companies in the United States”, International Journal of Strategic Management, 2014, Malhotra, R., Campbell, K. T., and Malhotra, D. K., available online at the EBSCO Publishing in the Business Complete Listing and at the Gale/ Cengage Publishing. The journal will soon be available with the SCOPUS.
- “Clustering Analyses to Understand Student Motivations and Ethical Approaches to Academic Ethics with Recommendations for Curricular Change,” *Perspectives in Data Mining*, Campbell, K. T., Miori, V. A., & Doyle, K. A. (in press, 2012)
- “The Most Sustainable Car,” *Accounting and Business Research*, 2012, Campbell, K. T. & Sherman, W. R., Volume 9, Number 10, pages 47 – 64, 2012.
- “Gender Differences In Academic Ethics With Recommendations For Curricular Change,” *Journal of College Teaching & Learning*, Volume 8, Number 3, March 2011.
- “Lists & More Lists: Making Sense of Corporate Reputations,” *Journal of Business and Economics Research*, Campbell, K. T. & Sherman, W. R., Volume 8, Number 7, 2010.

Conferences

- Campbell, K. T. “Rank-Adapted Singular Value Decomposition”, Joint Statistical Meetings
- Campbell, K. T. & Sherman, W. R. “The Most Sustainable Car,” Academy of Business Research, Atlantic City, September 2011
- Campbell, K. T. & Sherman, W. R., “Lists & More Lists: Making Sense of Corporate Reputations,” Clute Institute, January 2010

Refereed Book Chapters

Campbell, K. T., Campagna, G., Costanzo, A., & Matthews, C. (2009). Inventory Optimization of Small Business Supply Chains with Stochastic Demand, In John Wyzalek (Ed.), *The Supply Chain in Manufacturing, Distribution, and Transportation: Modeling, Optimization, and Applications*. New York: CRC Press - Taylor Francis.

Competitive Awards, Grants, & Honors

- 2000: Academic Enrichment Program Award. This grant allowed Monsignor Bonner High School the opportunity to put computers in the English and Science classrooms. High School. Grant :\$200,000
- 2001: Federal Government Mathematics Grant. Created and gave a formal presentation that helped Monsignor Bonner High School, Archbishop Prendergast and Upper Darby High School achieve a grant to fund technology in the classroom. Grant: \$250,000. Once the classrooms were up and running, was the responsible for training the rest of the faculty and maintaining the classroom as a model for future grants and funds from 2001-2005.
- Awarded the Most Outstanding Graduating Female of Lebow College of Business, Drexel University Class of 2000.
- Saint Joseph’s University Teaching Award recipient 2007 (Nominated by students and fellow teachers).

Memberships

American Statistical Association from 2003
 Institute of Mathematical Statistics from 2009
 Data Philly member
 Phi Sigma Pi Honors Fraternity 1997 – 2000 (Vice President & Secretary positions held)

Computer Skills

Minitab, SAS with strong skills using JMP, R, Excel and Excel including: R add in, Crystal Ball, Mega Stat.

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Statistical Consulting & Entrepreneurialism

Colonial Electric & Bright Lights, Statistical Consultant, Summers 2007, 2009, 2010

(2007) Established a new profit sharing point system to encourage better sales on floor throughout the calendar year using previous sales data and long term goals set by company.

(2009) Analyzed and created new methods of inventory testing to decrease the number of defective products being accepted in house as well as shipped out to customers.

(2010) Triangulated best possible location for future show room based on zip codes statistical analysis. Once established, helped cross analyze locations with three current existing competitors available for take over and best prices negotiations to consider in the buyout.

Analysis and Inference Inc., Junior Statistical Analyst, Summer 2008

Worked on multiple projects from government sector to law firm litigation analysis. Met with new clients to discuss needs and analysis, worked in think tank mode to prepare best analytical approach, collected data, ran analysis and helped write reports once initial conclusions were drawn.

Manager / Co-Owner, Jake's Water Ice (June, 2000 - Present). Open May – September
From making water ice to managing facilities, help run every aspect of the business.

Service to the University

AOL (2007 – 2009, 2011 – present): AOL committee member for DSS department. Help create and implement procedures to help measure classes for assurance or learning. Write reports that show current growth and future potential which is then used for AACSB accreditation.

Mentoring activities:

2011-2013: Cradles to Crayons with the Business Intelligence students group (BITS): Worked with students to organize and collect donations. Oversaw volunteer efforts at the local Cradles for Crayons facility working with students to pack bags for children and organize donations.

2010 -2013: Work with graduating students to enhance their interview process, and long term decision making. Tutor and prepare students for the GMAT/GRE while continuing to help them network.

2006-2011: Academic Advisor for at least 30 undecided students. Guided students throughout the semester to make sure that they have acclimated well to college life. Met with struggling students to help intervene and minimize the possibility of failure. Guided students to help them choose classes and majors.

Service to the Community

Father Atkinson Scholarship Committee, Chair

(2009 – present)

The mission of The Father Bill Atkinson Scholarship Foundation is to be to provide scholarships to deserving students desiring an education at Monsignor Bonner High School/Archbishop Prendergast High School, who by their own means cannot commit to the financial responsibilities.

Work on the vetting committee which requires looking through 40 to 50 applications, essays, recommendations, and personal statements. Help choose 6 initial candidates. Organize and schedule committee members. Meet with the committee and vetted candidates and choose the best students for the scholarship.

Mathematics Mentor and Instructor

(2011 – 2012)

Taught a core group of high school seniors at Monsignor Bonner and Archbishop Prendergast basic statistics 3 days a week for one semester.

Saint Joseph's Overseeing Advisor for Philadelphia Cares

(2007, 2008, 2009)

Worked with scholarship students to help upgrade the playground at a local school: painting, repairing, and upgrading current playground activities. Helped update a local community center. Worked to eliminate graffiti and clean up the playground area for safety and cleanliness. Cleaned, painted, and repaired rooms inside the center.