



Serge M. Karalli, Ph.D.

"Example isn't another way to teach, it is the only way to teach." - Albert Einstein

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Education

Ph.D. Operations Research, *January 2005*
Case Western Reserve University (Cleveland, OH)
Concentration in Operations Management

M.A. Counseling, *May 1994*
Franciscan University (Steubenville, OH)

B.S. Electrical Engineering, *May 1984*

B.A. Psychology, *May 1984*
Norwich University (Northfield, VT)

Teaching Experience

Assistant Professor of Operations Management
September 2004 - May 2012
California State University, Sacramento (Sacramento, CA)

Visiting Assistant Professor of Operations Management
September 2003 - May 2004
DePaul University (Chicago, IL)

Graduate Assistant
September 2000 - May 2003
Case Western Reserve University (Cleveland, OH)

Teaching Interests

- Core Courses in Operations Management
- Supply Chain Management
- Production Planning and Inventory Control
- Goal-Based Scenario/Game Based Learning
- Quantitative Methods
- Combinatorial Optimization
- Graph Theory/Networks

Research Interests

- The MFELSP-SS
- Extensions of the MFELSP-SS to the JRP
- The family periodic loading problem
- Generalized Lot Allocation
- Goal-Based Scenario (GBS) research
- Effective student preparation for GBS exercises

Teaching Practice

California State University, Sacramento

Teaching Ratings

4.5/5.0 - 4.9/5.0

On-Line Course

September 2008 - May 2112

- Undergraduate Operations Management core course
- Manage course with WebCT ©
- On-line communication with iMeet ©

Undergraduate Operations Management Courses

September 2004 - May 2112

- Operations Management Core Course
- Operations Planning & Inventory Control
- Operations Strategy & Design

Graduate Operations Management Courses

September 2005 - May 2112

- Production & Operations Analysis (MBA)
- Quantitative Methods for Decision Making (EMBA)

Incorporated On-line Business Simulations in Every Course

- [The Electronic Beer Game](#)
- [Littlefield Technologies](#)
- [The Startup Game](#)
- [The Supply Chain Game](#)

International Collegiate Business Simulation Competition

January 2005 - May 2008

- Undergraduate Team Adviser
- Compete with teams from universities worldwide

Simulation Games in the Classroom

August 2008

- Presenter and panel discussant
- American Management Association
- Annual meeting, Anaheim, CA

Matheson Trucking, Inc

January 2008 - May 2009

- Internships for operations management students
- Coordinated operations management students with internships
- Internships often led to full-time employment

DePaul University

Undergraduate Operations Management Courses

August 2003 - May 2004

- Managerial Concepts and Practices II
- The Management and Measurement of Quality;
- Purchasing Management
- Teaching Ratings: 4.5/5.0 - 4.9/5.0

Case Western Reserve University

Undergraduate Core Course in Operations Management

September 2000 - May 2003

- Responsible for course design, preparation, and instruction
- Typical class composition:
 - Weatherhead School of Management students, &
 - Case School of Engineering students

Math Camp

August 2001, August 2002

- A week-long statistics review for MBA students.
- Conducted problem sessions

Exercises on Proof Techniques

January 1999 - June 1999

- Solow, D., *How to Read and do Proofs: an introduction to mathematical thought process*, (3 ed.). New York, NY: John Wiley & Sons, 2002
- Assisted in the revision and development of proof techniques exercises

Graduate Operations Research Course Development

August 1999 - August 2000

- Developed a traveling salesman problem application in MS Access using VBA, SQL, & C++

Research

Reviewer

- *Applied Mathematics and Computation*. 2011.
- *California Journal of Operations Management*. 2011.

Publications

- S. M. Karalli and A. D. Flowers, "The JRP with Multiple Replenishment Sources and Fill Rates," *California Journal of Operations Management*, vol. 9(2), pp. 1-19, 2011

- S. M. Karalli, "Coordinating Shipments from Multiple Supplier location in a Capacitated Staging Environment," *California Journal of Operations Management*, vol. 9(1), pp. 104-118, 2011
- S. M. Karalli and A. D. Flowers, "The Multiple-Family ELSP with Safety Stocks," *Operations Research*, vol. 54(3), pp. 523-531, 2006.

Articles Under Review

- S. M. Karalli and A. D. Flowers, "The Family Periodic Loading Problem," *European Journal of Operational Research*, 2011
- S. M. Karalli and A. D. Flowers, "The Multiple-Family ELSP with Fill Rates," *Submitted to Operational Research Letters*, 2011

Working Papers

- S. M. Karalli and A. D. Flowers, "Scheduling the Multi-Family JRP with a Periodic Loading Algorithm," CSU, Sacramento and Case Western Reserve University, Working Paper , 2010.

Technical Reports

- A. D. Flowers and S. M. Karalli, "Setting Safety Stocks and Production Quantities for Product Families," Case Western Reserve University, Technical Report , 2010.

Presentations

- S. M. Karalli, "Coordinating Shipments from Multiple Supplier locations in a Capacitated Staging Environment," in *23rd Annual CSU-POM Conference*, Bakersfield, CA, 2011
- S. M. Karalli and Y. Sun, "Lagrangian lower bounds for the generalized semiconductor lot allocation problem," in *61st Annual IIE Conference and Expo 2011*, Reno, NV, 2011
- S. M. Karalli, "The Family Periodic Loading Problem: When Standard Loading is Infeasible," in *Research Seminar*, Sacramento, CA, 2005.
- S. M. Karalli and A. D. Flowers, "The Family Periodic Loading Problem," in *National DSI Conference: San Francisco, California*, San Francisco, CS, 2005.
- S. M. Karalli and A. D. Flowers, "The Multi-Family Economic Lot Scheduling Problem with Safety Stocks," in *INFORMS Annual Meeting 2002 San Jose*, San Jose, CA, 2002.
- S. M. Karalli and A. D. Flowers, "The Multi-Family Economic Lot Scheduling Problem with Safety Stocks," in *MSOM Conference, Ithaca, June 2002*, Ithaca, NY, 2002.

Ph.D. Thesis

- S. M. Karalli, "The Multi-Family Economic Lot Scheduling Problem with Safety Stocks," PhD Thesis , Case Western Reserve University, 2004.

Professional Practice

Projects

Application of my Doctoral Dissertation *Aug.-2008*

Avery Dennison (*Cleveland, OH*)

- Application of The MFELSP-SS
- Encompasses 1,968 of 8,000 parts

Waiting Lines Analysis *Mar. 2008*

La Superior SuperMercados, Inc. (*Sacramento, CA*)

- Recommend a checkout line operating policy

Forecasting Model *January 2007-May 2009*

Matheson Trucking, Inc. (*Elk Grove, CA*)

- Provided An Exponential Smoothing Forecast Model

Forecasting Model

September 2006

Forecasting Classes

January 2005 - January 2006

SMUD (*Sacramento, CA*)

Forecasting Analysis

Mar. 2004-June 2004

Lindt & Sprüngli (*Stratham, NH*)

- Improved demand planning and product scheduling
- Reduced inventory and write-offs

Staubach Logistics Practice Group

(*Cleveland, OH*)

Inventory Analysis

February 2002 - April 2002

Famous Supply Inc. (Akron, OH)

- Assign distribution points to thousands of SKUs to improve service

Distribution Network Analysis

April 2001 - June 2002

Optimal warehouse location with NETWORK©

- L D Kichler Co., Cleveland, OH
- General Cable Inc., Cincinnati, OH
- Lubrizol, Cleveland, OH

Graduate Assistant and Summer Projects

Mapping of the outbound distribution system

Jan. 2001-May 2001

Parker Hannifin Corporation (Mentor, OH)

- Interviewed group presidents and management personnel
- Participated in the search for logistics benchmark data
- Analyzed logistics costs and performance measure

Forecasting and Inventory Management Pilot Study

July 2000-Jan. 2000

ATSCO - Air Tool Solutions Company (Mentor, OH)

- Performed forecasts for 30 products
- Provide recommendations for inventory levels

Long-term workforce-planning model

September 1998 - December 1999

ALCOA Forged Products (Cleveland, OH)

- Developed a workforce planning model with Excel and Solver
- Assisted in identifying and obtaining data for the model
- Developed VBA modules to automate data collection and transfer
- Wrote the users manual for the short-term model

Bureau of Business & Economic Research

(Morgantown, WV)

1996 and 1997 West Virginia County Data Profiles (CDPs)

July 1996 - December 1997

- Developed Lotus 1-2-3 macros to
- Processed data for 65 CDPs
- Prepared data for Freelance Graphics charts
- Automated the 1997 CDPs with macros
- The macros reduced the turnaround time by 75%

Economic impact forecasting

June 1997 - August 1997

- Developed applications for Lotus & Excel to forecast the economic impact of historical preservation construction projects and tourism on major industries in WV counties.

Economic study of the Potomac Highlands

June 1997 - August 1997

- Searched for economic and educational data on the Internet and on databases
- Participated in writing the final report

Computer Skills

Languages

- C++
- HTML
- JavaScript
- PHP
- Python
- VBA

Packages

- iMeet
- MediaWiki
- MoinMoin
- WebCT
- WordPress

Tools

- Camtasia
- LATEX
- Mathematica
- MSOffice
- OCTAVE
- OpenOffice.org

References

A Dale Flowers, D.B.A.

Associate Professor, Operations

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