



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

[Case Western Reserve University](#)

Concentration in Operations Management

Jan. 2005

(Cleveland, OH)

M.A. Counseling

[Franciscan University](#)

May 1994

(Steubenville, OH)

B.S. Electrical Engineering

B.A. Psychology

[Norwich University](#)

May 1984

May 1984

(Northfield, VT)

Teaching Experience

Assistant Professor of Operations Management

[California State University, Sacramento](#)

Sept. 2004 - May 2112

(Sacramento, CA)

Visiting Assistant Professor of Operations Management

[DePaul University](#)

Sept. 2003 - May 2004

(Chicago, IL)

Graduate Assistant

[Case Western Reserve University](#)

Sept. 2000 - May 2003

(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

Teaching Practice

California State University, Sacramento

Teaching Ratings:

4.5/5.0 - 4.9/5.0

On-Line Course

Sept. 2008 - May 2112

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

Undergraduate Courses

Sept. 2004 - May 2112

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

Graduate Courses

Sept. 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

Jan. 2005 - May 2008

- Undergraduate Team Adviser
- Compete with teams from universities worldwide

Simulation Games in the Classroom

Aug. 2008

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

Matheson Trucking, Inc

Jan. 2008 - May 2009

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

DePaul University

Undergraduate Courses

Aug. 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

Sept. 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

Aug. 2001, Aug. 2002

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

Exercises on Proof Techniques

Jan. 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

Aug. 1999 - Aug. 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, CA, 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

Avery Dennison

Aug.-2008

(Cleveland, OH)

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

Waiting Lines Analysis

La Superior SuperMercados, Inc.

Mar. 2008

(Sacramento, CA)

- Recommend a checkout line operating policy

Forecasting Model

Matheson Trucking, Inc.

Jan. 2007-May 2009

(Elk Grove, CA)

- Provided An Exponential Smoothing Forecast Model

Forecasting Model

Forecasting Classes

SMUD

Sept. 2006

Jan. 2005 - Jan. 2006

(Sacramento, CA)

Forecasting Analysis

Lindt & Sprüngli

Mar. 2004-June 2004

(Stratham, NH)

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

Staubach Logistics Practice Group

(Cleveland, OH)

Inventory Analysis

Famous Supply Inc.

Feb. 2002 - Apr. 2002

(Akron, OH)

- Assign distribution points to thousands of SKUs to improve service

Distribution Network Analysis

Optimal warehouse location with NETWORK©

Apr. 2001 - June 2002

- 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 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

Sept. 1998 - Dec. 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)

West Virginia County Data Profiles (CDPs)

July 1996 - Dec. 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 - Aug. 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 - Aug. 1997

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

Computer Skills

Languages	Packages	Tools
C++	iMeet	Camtasia
HTML	MediaWiki	LATEX
JavaScript	MoinMoin	Mathematica
PHP	WebCT	MSOffice
Python	WordPress	OCTAVE
VBA		OpenOffice.org

References

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