

SANDUN PERERA

Assistant Professor of Business Analytics and Operations
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EDUCATION

Naveen Jindal School of Management, The University of Texas at Dallas

PhD in Operations Management, Summer 2015
Advisors: Ganesh Janakiraman and Suresh P. Sethi
MBA (with High Distinction) Summer 2014
MS in Supply Chain Management (with High Distinction) Fall 2012

Faculty of Economics, Business Administration and Information Technology, University of Zürich, Switzerland

PhD level courses in Finance and Economics

Charles E. Schmidt College of Science, Florida Atlantic University

PhD in Financial Mathematics, *Advisor: Hongwei Long* Summer 2009
MS in Mathematics Fall 2008
MS in Applied Mathematics and Statistics Summer 2007

Department of Mathematics, University of Colombo, Sri Lanka

BS in Finance, Business and Computational Mathematics (1st class honors) Summer 2004

PROFESSIONAL EXPERIENCE

Assistant Professor, College of Business, The University of Nevada, Reno, July 2019–present.

Assistant Professor, School of Management, The Uni. of Michigan-Flint, Sep 2015–June 2019.

Affiliated Faculty, Michigan Institute of Data Sciences (MIDAS), The University of Michigan-Ann Arbor, Sep 2015–June 2019.

Graduate Teaching Assistant, Naveen Jindal School of Management, The University of Texas at Dallas, May 2010–Aug 2015.

Graduate Research Assistant, Faculty of Economics, Business Administration and Information Technology, University of Zürich, Switzerland, Aug 2009–May 2010.

Graduate Teaching Assistant, Charles E. Schmidt College of Science, Florida Atlantic University, Aug 2005–July 2009.

Assistant Lecturer, Department of Mathematics, University of Colombo, Sri Lanka, Jan 2005–July 2005.

Mathematics Instructor, Department of Mathematics, University of Colombo, Sri Lanka, Sep 2004–Dec 2004.

INTEREST

Disruptive Technologies in Operations Management, Healthcare Operations Management, Supply Chain Management, Financial Engineering, Interfaces between Operations and the other Functional Areas in Business.

PUBLICATIONS

- Varun Gupta and Sandun Perera, “*Managing Surges in Online Demand using Bandwidth Throttling: An Optimal Strategy amid the COVID-19 Pandemic*”, **Transportation Research Part E: Logistics and Transportation Review**, forthcoming.
- Zhong-Ping Li, Jian-Jun Wang, Sandun Perera, and Jim (Junmin) Shi, “*Coordination of a Supply Chain with Nash Bargaining Fairness Concerns*”, **IEEE Transactions on Systems, Man and Cybernetics: Systems**, accepted with very minor revisions.
- Mengqi Liu, Yueli Zhao, Rui Huang, and Sandun Perera, “*Vertical Value-Added Cost Information Sharing in a Supply Chain*”, **Annals of Operations Research**, forthcoming.
- Sandun Perera, Milind Dawande, Ganesh Janakiraman, and Vijay Mookerjee, “*Retail Deliveries by Drones: How Will Logistics Networks Change?*”, **Production and Operations Management**, 29(9): 2019–2034, 2020.
- Sandun Perera and Beverly Dabney, “*Case Management Service Quality and Patient-Centered Care*”, **Journal of Health Organization and Management**, 34(5): 551–568, 2020.
- Winston Buckley, Hongwei Long, and Sandun Perera, “*m-Double Poisson Lévy Markets*”, **Quantitative Finance**, 20(10): 1663–1679, 2020.
- Sandun Perera, Varun Gupta, and Winston Buckley, “*Management of Online Server Congestion using Optimal Demand Throttling*”, **European Journal of Operational Research**, 285(1): 324–342, 2020.
- Winston Buckley and Sandun Perera, “*Optimal Demand in a Mispriced Asymmetric Carr-Geman-Madan-Yor (CGMY) Economy*”, **Annals of Finance**, 15(3): 337–368, 2019.
- Sandun Perera, Ganesh Janakiraman, and Shun-Chen Niu, “*Optimality of (s, S) Inventory Policies under Renewal Demand and General Cost Structures*”, **Production and Operations Management**, 27(2): 368–383, 2018.
- Sima Fortsch and Sandun Perera, “*A Resilient Donor Arrival Policy for Blood*”, **Operations Research for Health Care**, 19: 165–174, 2018.
- Sandun Perera, Winston Buckley, and Hongwei Long, “*Market-Reaction-Adjusted Optimal Central Bank Intervention Policy in a Forex Market with Jumps*”, **Annals of Operations Research**, 262(1): 213–238, 2018.
- Sandun Perera and Hongwei Long, “*An Approximation Scheme for Impulse Control with Random Reaction Periods*”, **Operations Research Letters**, 45(6): 585–591, 2017.
- Sandun Perera and Winston Buckley, “*On the Existence and Uniqueness of the Optimal Central Bank Intervention Policy in a Forex Market with Jumps*”, **Journal of the Operational Research Society**, 68(8): 877–885, 2017.
- Sandun Perera, Ganesh Janakiraman, and Shun-Chen Niu, “*Optimality of (s, S) Policies in EOQ Models with General Cost Structures*”, **International Journal of Production Economics**, 187: 216–228, 2017.
- Winston Buckley, Hongwei Long, and Sandun Perera, “*The Link between Asymmetric and Symmetric Optimal Portfolios in Asset Mispricing Models*”, **Mathematical Finance Letters**, 2015: Article ID 6, 2015.

- Winston Buckley, Hongwei Long, and Sandun Perera, “*A Jump Model for Fads in Asset Prices under Asymmetric Information*”, **European Journal of Operational Research**, 236(1): 200–208, 2014.
- Winston Buckley, Oneil Harris, and Sandun Perera, “*On the Sensitivity of the Black Capital Asset Pricing Model to the Market Portfolio*”, **Risk and Decision Analysis**, 4(3): 177–189, 2013.
- Alain Bensoussan, Hongwei Long, Sandun Perera, and Suresh Sethi, “*Impulse Control with Random Reaction Periods: A Central Bank Intervention Problem*”, **Operations Research Letters**, 40(6): 425–430, 2012.

Note: An earlier version of this paper, titled “Market-Reaction-Adjusted Optimal Central Bank Intervention Policy in a Foreign Exchange Market”, was awarded the second place in the **INFORMS Financial Services Section Best Student Research Paper** Competition, 2012.

SUBMITTED/COMPLETED WORKING PAPERS

- Zongli Dai, Sandun Perera, and Jian-Jun Wang, “*Robust Allocation of Elective Surgeries to Operating Rooms: Modelling ICU Demand Uncertainty amid Epidemic Outbreaks such as COVID-19*”.
- Mengqi Liu, Ke Liang, Rui Huang, Sandun Perera, and Sanjoy Ghose, “*Managing a Dual-Channel Supply Chain with Cross-Channel Effect of the Service Effort*”.
- Qingning Cao, Yuanzhao Tang, Sandun Perera, and Jianqiang Zhang, “*Manufacturer- versus Retailer-initiated Bundling: Implications for the Supply Chain*”.
- Mingjun Li, Xiang Ji, and Sandun Perera, “*Bundling Conspicuous Goods in a Distribution Channel*”.
- Zhenyang Pi, Weiguo Fang, Sandun Perera, and Baofeng Zhanga, “*Product Quality and Retail Service Strategies in a Dual-Channel Supply Chain: The Effects of Free-Riding and Demand Disruptions*”.

SELECTED WORK IN PROGRESS

- Sandun Perera, Varun Gupta, Hongwei Long, and Xiaohang Yue, “*Data-Driven Condition-Based Maintenance for Perpetual Systems*”.
- Sandun Perera, Syagnik Banerjee, and Metin Çakanyıldırım, “*Optimizing Starvation to Avoid Cannibalization: Retailer’s Strategies for Markets in Crisis*”.
- Jian-Jun Wang, Zhong-Ping Li, and Sandun Perera, “*Resource Reallocation in Coordinating Hierarchical Medical System: Fee-for-Capacity versus Performance Payment Schemes*”.
- Sandun Perera and Suresh Sethi, “*A Review of Inventory Models with Fixed Costs: Optimality of (s, S) and (s, S) -Type Policies*”.
- Sandun Perera, Xuying Zhao, Milind Dawande, and Vijay Mookerjee “*Retail Competition using Drones*”.

Supervised Undergraduate Publications

- Alexander Cordisco and Vlad Shchetinin, “*A Data-Driven Analysis of IPOs: Determining the Initial Perceiving Period and Pragmatic Forecasting Methods*”, under review.
- Kyle Arrowood, Brant Beck, Raymond Kusch, and Peter Millar, “*Investigating the Acquisition of Dr Pepper Snapple Group*”, **The Meeting of Minds Journal of Undergraduate Research**, Vol. 21, 2019. <https://www.umflint.edu/research/mom-journal-2019#accordion-table-of-contents>
- Joylynn Clement and Bo Xia, “*The Release of Google Home & The Impact On Stock Values*”, **Journal of Student Research**, Vol. 5, 2017. <https://www.umflint.edu/research/src-journal-2017>
- Nicholas Matthies and Sydney Parvin, “*An Evaluation of Snap Inc. and its Recent Decision to Go Public*”, **Journal of Student Research**, Vol. 5, 2017. <https://www.umflint.edu/research/src-journal-2017>

TEACHING

INTEREST

Pricing and Revenue Analytics, Forecasting and Predictive Analytics, Operations and Supply Chain Management, Six-Sigma and Quality Analytics, Logistics and Inventory Management, and Business Statistics.

EXPERIENCE

College of Business, The University of Nevada, Reno.

- Pricing, Revenue and Predictive Analytics (Undergraduate Elective); Fall 19/20, Spring 20/21.
- Global Supply Chain and Distribution Channel Management (MBA Elective); Spring 20/21.

School of Management, The University of Michigan-Flint.

- Operations Management (Net-Plus MBA Core); Fall 2018, Spring 2019.
- Operations Management (MBA Core); Fall 2018.
- Operations Management (BBA Core); Fall 15/16/17, Winter 16/17/18/19.
- Demand and Revenue Analytics (BBA Core for OM/SCM Major); Winter 16/17/18/19.
- Six Sigma and Quality Management - Online (BBA Core for OM/SCM Major, Graduate Elective); Winter 16, Fall 16/17/18.
- Operations Management (Online BBA); Fall 16, Summer 17/18, Winter 18/19, Spring 19.

Naveen Jindal School of Management, The University of Texas at Dallas.

- Operations Management (Undergraduate Core); Spring 13/15, Fall 13, Summer 15.
- Teaching Assistant for Operations Management (MBA/MS), Quantitative Introduction to Risk and Uncertainty in Business (MBA/MS), Global Supply Chain Management (MBA/MS), Logistics and Distribution (MBA/MS), Spreadsheet Modeling and Analytics (MBA/MS), Lean and Six Sigma Processes (Undergraduate).

Charles E. Schmidt College of Science, Florida Atlantic University.

- Methods of Calculus (Undergraduate Core for Business Majors); Fall 06/08, Spring 07/08/09.
- Discrete Mathematics* (Undergraduate Elective); Spring 2008.
*This course was offered in three different campuses via video conferencing.
- Calculus for Engineers I (Undergraduate Core); Fall 2007.
- Lab Instructor for Introductory Statistics (Undergraduate Core for Business Majors); Fall 2005, Spring 2006.

Department of Mathematics, University of Colombo, Sri Lanka.

- **Assistant Lecturer**, Spring 2005 and Summer 2005.
- **Mathematics Instructor**, Fall 2004.

PRESENTATIONS

CONFERENCE PRESENTATIONS

DSI Annual Conference 2019 – New Orleans, LA; *Management of Online Server Congestion using Optimal Demand Throttling.*

INFORMS Annual Meeting 2019 – Seattle, WA; *Management of Online Server Congestion using Optimal Demand Throttling.*

POMS Annual Conference 2019 - Washington, D.C.; *Optimizing Starvation to Avoid Cannibalization: Retailer's Strategies for Markets in Crisis.*

Tutorial Speaker at POMS International Conference 2018 - Rio de Janeiro, Brazil; *Inventory Management.*

Keynote Speaker at MERCon 2018 - Colombo, Sri Lanka; *New Trends in Supply Chain and Operations Management.*

POMS International Conference 2018 - Rio de Janeiro, Brazil; *A Little Speed-Customization Goes a Long Way: Imminent Delivery Networks of Online Retailers.*

INFORMS Annual Meeting 2018 - Phoenix, AZ[†]; *Optimal Demand Throttling for Bandwidth Preservation.*

INFORMS International Meeting 2018 - Taipei, Taiwan; *A Little Speed-Customization Goes a Long Way: Imminent Delivery Networks of Online Retailers.*

Research Seminar at IIMK 2018 - Kozhikode, India; *A Little Speed-Customization Goes a Long Way: Imminent Delivery Networks of Online Retailers.*

POMS Annual Conference 2018 - Houston, TX; *Optimizing Starvation to Avoid Cannibalization: Retailer's Strategies for Markets in Crisis.*

POMS Annual Conference 2018 - Houston, TX[†]; *A Resilient Donor Arrival Policy for Blood.*

APICS Annual Supply Chain Conference 2017 - San Antonio, TX*.

INFORMS Annual Meeting 2017 - Houston, TX; *Optimizing Starvation to Avoid Cannibalization: Retailer's Strategies for Markets in Crisis.*

DSI Annual Meeting 2017 - Washington, D.C.*.

POMS Annual Conference 2017 - Seattle, WA; *Optimizing Starvation to Avoid Cannibalization: Retailer's Strategies for Markets in Crisis.*

DSI Annual Meeting 2016 - Austin, TX*.

INFORMS Annual Meeting 2016 - Nashville, TN*.

INFORMS International Meeting 2016 - Waikoloa Village, HI; *Optimality of (s,S) Policies in EOQ Models with General Cost Structures.*

INFORMS International Meeting 2016 - Waikoloa Village, HI; *Optimality of (s,S) Policies under Poisson Demand and General Cost Structures.*

POMS Annual Conference 2016 - Orlando, FL; *Optimality of (s,S) Policies under Poisson Demand and General Cost Structures.*

INFORMS Annual Meeting 2015 - Philadelphia, PA*.

POMS Annual Conference 2015 - Washington, D.C.; *Optimality of (s,S) Policies in EOQ Models with General Cost Structures.*

DSI Annual Meeting 2014 - Tampa, FL*.

INFORMS Annual Meeting 2014 - San Francisco, CA; *Optimality of (s,S) Policies in EOQ Models with General Cost Structures.*

INFORMS Annual Meeting 2012 - Phoenix, AZ; *Market-reaction-adjusted Optimal Central Bank Intervention Policy in the Foreign Exchange Market.*

INFORMS Annual Meeting 2011 - Charlotte, NC; *Market-reaction-adjusted Optimal Central Bank Intervention Policy in the Foreign Exchange Market.*

INFORMS Annual Meeting 2010 - Austin, TX*.

*Participation only, [†]Presented by a co-author.

SEMINAR PRESENTATIONS

Bentley University, Waltham, Massachusetts.

Black School of Business, Penn State Behrend, Erie, Pennsylvania.

Carson College of Business, Washington State University, Pullman, Washington.

College of Business, New Mexico State University, Las Cruces, New Mexico.

College of Business, University of Nevada, Reno, Nevada.

Faculty of Economics, Business Adm. and Information Technology, University of Zürich, Switzerland.

Institute for Operations Research, University of Zürich, Switzerland.

Naveen Jindal School of Management, University of Texas at Dallas, Richardson, Texas.

Robert B. Willumstad School of Business, Adelphi University, Garden City, New York.

School of Business, Carroll University, Waukesha, Wisconsin.

School of Business, University of San Diego, San Diego, California.

School of Economics and Management, Beihang University, Beijing, China.

School of Management, University of Michigan-Flint, Flint, Michigan.

OTHER INVITED PRESENTATIONS

“A path to become a HAPPY Managerial Scientist”, Sabaragamuwa University, Sri Lanka, 2021.

“Forecasting your future as a Statistician”, University of Peradeniya, Sri Lanka, 2021.

AWARDS, HONORS AND ASSOCIATIONS

- Nominated for “Paul and Judy Bible University Teaching Excellence Award 2020/2021” at UNR.
- Summer Research Grant (\$11,666), University of Nevada, Reno, 2021.
- Summer Research Grant (\$11,666), University of Nevada, Reno, 2020.
- Nominated for (university-wide) “Outstanding Faculty Advisor Award 2019” at UM-Flint.
- Nine Golden Apples (for teaching) from the University of Michigan-Flint students, 2015-2019.
- Invited to deliver a Tutorial Presentation at POMS International Conference 2018.
- Invited to deliver a Keynote Presentation at MERCon 2018.
- Summer Research Grant (\$11,500), School of Management, University of Michigan-Flint, 2018.
- Hagerman Faculty Scholar Award, School of Management, University of Michigan-Flint, 2017-2018.
- Outstanding Faculty Award for Research, School of Management, University of Michigan-Flint, 2017.
- International Travel Grant, University of Michigan-Flint, 2017-2018.
- Award for Outstanding Contribution in Reviewing, European Journal of Operational Research, 2017.
- Award for Outstanding Contribution in Reviewing, International J. of Production Economics, 2017.
- Award for Outstanding Contribution in Reviewing, Operations Research Letters, 2017.
- Summer Research Grant (\$11,000), School of Management, University of Michigan-Flint, 2017.
- Provost’s 60th Anniversary Research Grant, University of Michigan-Flint, 2016-2017.
- Invited to the POMS Emerging Scholar Program 2016.
- Summer Research Grant (\$10,000), School of Management, University of Michigan-Flint, 2016.
- Nominated for (university-wide) “Student Leader of the Year Award 2015” at UT Dallas.

- Invited to the POMS Doctoral Student Consortium, 2015.
- Doctoral Student Consortium Grant, University of Texas at Dallas, 2014.
- **INFORMS Financial Services Section Best Student Research Paper Award 2012** (Second Place) - INFORMS Annual Meeting 2012.
- PhD Research Small Grant, University of Texas at Dallas, 2011, 2012 and 2014.
- Grant from the Swiss Finance Institute (CHF 30,000), Sep 2009 - Aug 2010.
- Dr. Daniel B. and Aural B. Newell Doctoral Fellowship 2008-2009 (This is the most competitive university-wide doctoral fellowship at Florida Atlantic University.).
- William Fabricant Scholarship for 2006-2007, Florida Atlantic University.
- Mr. and Mrs. H.D.P. Gunawardena Memorial Prize for Mathematics and Physics from the University of Colombo, Sri Lanka (This prize is awarded to the student who has shown the highest competence in the first year exams in Mathematics and Physics.).
- Member: INFORMS, DSI, POMS.

PROFESSIONAL SERVICES

SERVICES TO THE DISCIPLINE AND ACADEMIC COMMUNITY

- **Editorial Review Board Member** - Production and Operations Management (2017-Present).
- **Editorial Review Board Member** - Decision Sciences (2020-Present).
- **Editorial Review Board Member** - International Journal of Business Analytics (2012-2019).
- **Referee** for Production and Operations Management, Decision Sciences, International Journal of Production Economics, Naval Research Logistics, International Journal of Production Research, Operations Research Letters, Journal of Optimization Theory and Applications, Transportation Research Part E, European Journal of Operational Research, IEEE Transactions on Engineering Management, Journal of Health Organization and Management, DSI Conference, MSOM Conference, and NSF's Merit Review Process.
- **Research Track Chair** (Manufacturing and Production Management) - DSI Annual Meeting 2019.
- **Invited Guest Editor** - Special Issue on Data Driven Design and Management of Sustainability for Emerging Modes of Supply Chain, Journal of Enterprise Information Management, Emerald Publishing, 2019.
- **Invited Guest Editor** - Special Issue on Service Operations in Emerging Markets, IIMK Society & Management Review, SAGE Publications, 2019.
- **Research Track Chair** (Revenue Management) - DSI Annual Meeting 2018.
- **Session Chair** (Product Innovation and Technology in Operations Management) - POMS International Conference 2018 in Rio.
- **Judge** - Poster Competition, MIDAS Annual Symposium on "Serving Society through Data Science", 2018.
- **Cluster Chair** (Mitigating Risk in Supply Chains) - INFORMS International Meeting 2018.
- **Cluster Chair** (Pricing and Revenue Management) - INFORMS International Meeting 2018.
- **Member** of the Academic Organizing Committee - MSOM Conference 2018.
- **Session Chair** (Revenue Management and Pricing) - POMS Annual Conference 2018.
- **Research Track Chair** (Supply Chain and Revenue Management) - DSI Annual Meeting 2017.
- **Session Chair** (Pricing and Revenue Management) - INFORMS Annual Meeting 2017.

- **INFORMS Judge** - Poster Competition, INFORMS Annual Meeting 2016.
- **Session Chair** (Topics in Inventory Management) - INFORMS International Meeting 2016.
- **Session Chair** (Operations-Finance Interface) - INFORMS Annual Meeting 2011.
- **Chief Organizer** - Sri Lankan Mathematical Olympiad Competition 2005.

SERVICES TO THE COLLEGE OF BUSINESS AND THE UNIVERSITY, UNIVERSITY OF NEVADA, RENO

- **Member** of the university Faculty Diversity Committee (FDC), 2020-2023.
- **Judge** for the Annual GSA Awards 2021.
- **Advisor** for the students in the Business Analytics Minor.
- **Member** of the curriculum committee of the new Minor in Business Analytics.
- **Designed a new undergraduate core course** in Pricing, Revenue and Predictive Analytics.
- **Designed a new MBA elective course** in Global Supply Chain and Distribution Channel Management.

SERVICES TO THE SCHOOL OF MANAGEMENT, UNIVERSITY OF MICHIGAN-FLINT

- *Contributed to initiate the SC and OM Concentration* for MBA Program.
- *Contributed to initiate the Operations and Supply Chain Management Major* for BBA Program.
- **Founding Advisor** of the Supply Chain and Operations Management Association (SCOMA).
The Michigan Times: <https://themichigantimes.com/3048/campus/new-supply-chain-club-to-start-on-campus/>
- **Member** of the curriculum committee of the proposed MS Program in Data Analytics.
- **Member** of the faculty search committee for OM/SCM position, 2016-2017.
- **Member** of the faculty search committee for Quantitative Business Analysis position, 2016-2017.
- **Vice-president** of the Beta Gamma Sigma, 2017-2018.
- **Member** of SOM Undergraduate Committee, 2017-2019.
- **Member** of SOM Grievance Committee, 2017-2019.
- **Member** of the Beta Gamma Sigma, 2016-2017.
- **Designed a new core course** in Demand and Revenue Analytics for the new OM/SCM major.
- **Designed a new core course** in Six Sigma and Quality Management for the new OM/SCM major.

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