

Sandeep Rath

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Education

UCLA Anderson School of Management, Los Angeles

Ph.D. Management, June, 2016.

Dissertation Title: Resource Planning Models for Healthcare Organizations.

Dissertation committee: Kumar Rajaram (chair), Felipe Caro, Uday Karmarkar, Aman Mahajan.

Indian Institute of Technology, Kharagpur

M.Tech. Instrumentation Engineering, 2006.

B.Tech. Electrical Engineering, 2006.

– Minor, Electronics and Telecommunication Engineering.

Professional Experience

Kenan-Flagler Business School, University of North Carolina at Chapel Hill

Assistant Professor, 2016–present.

UCLA Anderson School of Management, Los Angeles

Teaching Assistant, Executive MBA Program, Fall 2016.

Teaching Assistant, Fully Employed MBA Program, Fall Quarters of 2012–2016.

Indian School of Business, Hyderabad

Research Associate, 2010–2011.

Schlumberger Ltd., Pune

Business Analyst, 2008–2009

Manufacturing Engineer, 2007–2008.

ITC Ltd., Chennai

Assistant Manager 2006–2007.

Honors

Nominated for Weatherspoon Undergraduate Teaching Award, 2023

POMS CHOM Research-in-Practice Showcase Presentation, 2022

Finalist, INFORMS Innovative Application in Analytics Award, 2022

UCLA Dissertation Year Fellowship, 2015–2016.

UCLA Anderson Doctoral Fellowship, 2011–2015.

Fellowship for Post Graduate Studies, Government of India, 2005–2006.

National Talent Search Examination Scholarship, Government of India, 1999–2005.

Publications

Peer-Reviewed Journal Articles

* indicates healthcare practitioner or physician collaborator

Deshpande V., Mundru N., **Rath, S.**, *Knowles M., *Rowe D., *Wood B.C. (2023), Data-Driven Surgical Tray Optimization to Improve Operating Room Efficiency *Operations Research* (35 pages)

- Finalist, INFORMS Innovative Application in Analytics Award (2022)
- Selected for POMS College of Healthcare Operations Management Research-in-Practice Showcase Presentations (2022)
- Media Coverage: Collaborating to Cut Hospital Costs (<https://www.kenan-flagler.unc.edu/research/collaborating-to-cut-hospital-costs/>)

Rath, S., & Rajaram, K. (2022). Staff Planning for Hospitals with Implicit Cost Estimation and Stochastic Optimization. *Production and Operations Management*, 31(3), 1271-1289.

- Media Coverage: A Scheduling Tool that Considers Employee Preferences *UCLA Anderson Review* (Nov 2021)

Rath, S., Rajaram, K., &* Mahajan, A. (2017). Integrated Anesthesiologist and Room Scheduling for Surgeries: Methodology and Application. *Operations Research*, 65(6), 1460-1478. (18 pages).

Wood, B.C., Konchan, S., Gay, S., **Rath, S.**, Deshpande, V. and Knowles, M., (2021). Data analysis of plastic surgery instrument trays yields significant cost savings and efficiency gains. *Annals of Plastic Surgery*, 86(6S), pp.S635-S639.

Knowles, M., Gay, S.S., Konchan, S.K., Mendes, R., **Rath, S.**, Deshpande, V., Farber, M.A. and Wood, B.C., (2021). Data analysis of vascular surgery instrument trays yielded large cost and efficiency savings. *Journal of Vascular Surgery*, 73(6), pp.2144-2153.

Deo, S., Rajaram, K., **Rath, S.**, Karmarkar, U. S., & *Goetz, M. B. (2015). Planning for HIV Screening, Testing, and Care at the Veterans Health Administration. *Operations Research*, 63(2), 287-304 (18 pages).

Articles Under Review/Revision

Celik U., **Rath, S.**, Kesavan S., Staats B., Does Physician Choice of When to Perform EHR Tasks Influence Total EHR Workload? (35 pages) *Under 2nd round review at M&SOM*

Rath, S. Rajaram K., *Hudson, M.E., *Mahajan A., Multi-location, Dynamic Staff Planning for a Healthcare System: Methodology and Application (37 pages) *Under Review at Operations Research*

Working Papers

Rath, S., Swaminathan, J.M., *Coleman C., Collaborative Care for Mental and Physical Health (34 pages) *Under preparation for submission*

Work in Progress

Celik U., **Rath, S.**, Staats B., Kesavan S., Reducing Appointment Delays: The Impact of Standardized EHR Usage on Physician Timeliness (*Data collection complete, analysis in progress*)

Rath, S., *Lim M., Data-Driven Surgical Block Release Planning (*Data collection complete, analysis in progress*)

Rath, S., Kesavan S., Staats B., Appointment Scheduling with Offline Discretionary Work (*Data collection complete, analysis in progress*)

Other Published Articles

Rajaram, K., & **Rath, S.** (2017). Managing the Operating Room Suite at UCLA Ronald Reagan Medical Center. *Impact*, 3(2), 31-35.

Teaching Record**Undergraduate Program, Kenan-Flagler Business School, University of North Carolina**

BUSI 403: Operations Management, Undergraduate Core, *Spring 2017-2023*, Average Instructor Rating: 4.67/5

BUSI 532H: Healthcare and Service Operations Management, Undergraduate Elective, *Spring 2018-2023*, Average Instructor Rating: 4.69/5

– Course listed as Service Operations Management between 2018-2022

Peer-Reviewed Conference Presentations*Data-Driven Surgical Tray Optimization to Improve Operating Room Efficiency*

POMS College of Healthcare Operations Management Research-in-Practice Showcase Presentation (2022)

Collaborative Care for Mental and Physical Health

Manufacturing & Service Operations Management Conference, 2022.

Manufacturing & Service Operations Management Conference, 2021.

Staff Planning for Hospitals with Cost Estimation and Optimization

Manufacturing & Service Operations Management Conference, 2019.

Manufacturing & Service Operations Management Conference, 2018.

Invited Conference Presentations

Data-Driven Approach to the Surgical Block Release Decision

INFORMS Annual Meeting (Phoenix 2023)

Multilocation, Dynamic Staff Planning for a Healthcare System: Methodology and Application

POMS Annual Meeting (Orlando 2023)

Data-driven Workforce Planning For Healthcare Organizations

INFORMS Annual Meeting (Indianapolis 2022)

Data-Driven Surgical Tray Optimization to Improve Operating Room Efficiency

POMS Annual Meeting (Online, 2022)

Appointment Scheduling with Off-line Discretionary Work

POMS Annual Conference (Online, 2022), INFORMS Annual Meeting (Anaheim 2021).

Collaborative Care for Mental and Physical Health

POMS Annual Conference (Online, 2022), POMS Annual Conference (Online, 2021), INFORMS Annual Meeting (Seattle, 2019), INFORMS Healthcare (Boston, 2019), INFORMS Annual Meeting (Phoenix 2018).

Staff Planning For Anesthesiologists

INFORMS Annual Meeting (Seattle, 2019), INFORMS Healthcare (Boston, 2019), INFORMS Annual Meeting (Houston, 2017), INFORMS Annual Meeting (Nashville, 2016)

Integrated Staff and Room Scheduling for Surgeries

INFORMS Healthcare (Rotterdam, 2017), INFORMS Annual Meeting (Nashville, 2016), INFORMS Annual Meeting (Philadelphia, 2015), INFORMS Healthcare, (Nashville, 2015)

Planning for HIV Screening, Testing, and Care

INFORMS Annual Meeting, San Francisco, 2014.

Other Invited Presentations

University of Kansas School of Business (scheduled, April 2024)

Workshop in Management Science, San Pedro de Atacama, Chile (scheduled, December 2023)

Carlson School of Management, University of Minnesota (scheduled, November 2023)

Johns Hopkins Carey Business School (scheduled, November, 2023)

Robert H. Smith School of Business, University of Maryland (scheduled, November 2023)

UNC Kenan-Flagler Center for the Business of Health Faculty Research Share Session (scheduled, October 2023)

Midwest Healthcare Workshop, Geis College of Business, UIUC, 2023

Department of Statistics and Operations Research, UNC, 2023

Sloan School of Management, MIT, 2023

Carroll School of Management, Boston College, 2023
 NC State Doing Good with OM/OR Workshop, 2022
 Kelley School of Business, Indiana University, Consortium Friday Seminar Series (online), 2021
 UNC Business of Healthcare Convocation, Chapel Hill, 2019
 Kenan-Flagler Business School, University of North Carolina, Chapel-Hill, 2015.
 Communication, Networks and Systems Seminar, University of Southern California, 2015.
 Southern California OR/OM Day, Los Angeles, 2015.
 DOTM Colloquium Series, UCLA Anderson, 2015.

Professional Service

To the Discipline

Reviewer

California Management Review, IISE Transactions, Management Science, Manufacturing & Service Operations Management, Naval Research Logistics, Operations Research, Production and Operations Management

Judge

INFORMS Health Application Society Best Student Paper Competition, 2023
 INFORMS Public Sector OR Best Paper Competition, 2022
 MSOM Conference Healthcare SIG, 2021, 2022, 2023
 Pierskalla Best Paper Award, 2020
 POMS College of Healthcare Operations Management, Best Paper Competition, 2017, 2020, 2021, 2022, 2023

Conference Track Chair

POMS Annual Meeting, Orlando (2023)

Conference Session Chair

INFORMS Annual Meetings: Phoenix (*scheduled*, 2023), Anaheim (2021), Seattle (2019), Phoenix (2018, co-chair with Jayashankar Swaminathan), Houston (2017), Philadelphia (2015)
 INFORMS Healthcare: Toronto (*scheduled*, 2023), Boston (2019), Nashville (2015)

Within UNC Chapel Hill

Organizing Committee Member, UNC Healthcare Operations Workshop, 2019
 Operations Area Faculty Seminar Series, Chair, 2017-2019.
 Organizing Committee Member, Manufacturing & Service Operations Management Conference, 2017.

References

Available on request