

# 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, 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 Under Training, 2006–2007.

## Honors

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*

Wood, B. C., Konchan, S., Gay, **S., Rath, S.**, Deshpande, V., & Knowles, M. (2021). Data Analysis of Plastic Surgery Instrument Trays Yields Significant Cost Savings and Efficiency Gains. *Annals of Plastic Surgery*, 86(6S), S635-S639. (5 pages)

Knowles, M., Gay, S.S., Konchan, S.K., Mendes, R., **Rath, S.**, Deshpande, V., Farber, M.A. and Wood, B.C., (2020). Data Analysis of Vascular Surgery Instrument Trays Yields Large Cost and Efficiency Savings. *Journal of Vascular Surgery*, 71(1), pp.e15-e16 (10 pages).

**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).

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).

### *Non Peer-Reviewed Articles*

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

### *Articles Under Review*

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

**Rath, S.** and Rajaram, K., Staff Planning for Hospitals with Cost Estimation and Optimization *Under review at Production & Operations Management* (31 pages).

### *Working Paper*

**Rath, S.**, Swaminathan, J.M., Coleman C., Collaborative Care for Mental and Physical Health *Preparing to submit to Operations Research* (34 pages)

### *Work in Progress*

Celik U., Kesavan S., **Rath, S.**, Staats B., Operational Impact of Physician Electronic Health Record Use

## Teaching Record

### **BSBA Program, Kenan-Flagler Business School, University of North Carolina**

BUSI 403: Operations Management, Undergraduate Core, *Spring 2017-2021*

BUSI 532H: Service Operations, Undergraduate Elective, *Spring 2018-2021*

## Peer-Reviewed Conference Presentations

### *Collaborative Care for Mental and Physical Health*

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

### *Appointment Scheduling with Off-line Discretionary Work*

INFORMS Annual Meeting, Anaheim 2021 (scheduled).

### *Collaborative Care for Mental and Physical Health*

POMS, 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

### *Collaborative Care for Mental and Physical Health*

Consortium Friday Seminar Series by Indiana University (online), 2021

UNC Business of Healthcare Convocation, Chapel Hill, 2019

### *Integrated Staff and Room Scheduling for Surgeries*

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.

### *Planning for HIV Screening, Testing and Care*

DOTM Colloquium Series, UCLA Anderson, 2015.

## Professional Service

### *To the Discipline*

#### **Reviewer**

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

#### **Judge**

MSOM Conference Healthcare SIG, 2021

Pierskalla Best Paper Award, 2020

POMS College of Healthcare Operations Management, Best Paper Competition, 2017, 2020, 2021.

#### **Conference Session Chair**

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

INFORMS Healthcare: 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.