Ashley Elizabeth Davis

PhD Candidate

Department of Industrial Engineering and Management Sciences Northwestern University

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Education

PhD, Industrial Engineering and Management Sciences, Northwestern University
Graduation: June, 2013 (expected)
Thesis: Addressing Geographic Inequities in Kidney Transplantation
Advised by Sanjay Mehrotra

MS, Industrial Engineering and Management Sciences, Northwestern University *Graduated December 2009*

BS, Systems Science and Engineering, Washington University in St. Louis *Graduated May 2008, Magna Cum Laude*

BS, Engineering Mathematics, Elon University

Graduated May 2008, Summa Cum Laude

Publications

A Davis, S Mehrotra, J Friedewald, A Skaro, L McElroy, J Holl, M Abecassis, D Ladner, "Has Geographic Inequity in Kidney Transplantation Changed Since the Final Rule," *working paper*

A Davis, S Mehrotra, J Friedewald, A Skaro, L McElroy, R Kang, E Wang, J Holl, M Abecassis, D Ladner, "The Causes and Consequences of Kidney Transplantation Waiting Time Inequity across the United States," working paper

A Davis, S Mehrotra, J Friedewald, D Ladner, "Impact of the Statewide Sharing Variance on Kidney Transplantation Geographic Inequity and Allocation Efficiency," working paper

A Davis, D Ladner, J Friedewald, A Skaro, S Mehrotra, J Holl, M Abecassis, "Improving Utilization and Outcomes for High Kidney Donor Profile Index Kidneys in Transplant Patients," working paper

A Davis, L McElroy, J Friedewald, L VanWagner, A Gonzales, C Rigney, M Mozes, S Mehrotra, D Ladner, "Examining the Influence of Biopsy on Organ Utilization in a Single Organ Procurement Organization," working paper

A Davis, D Ladner, J Friedewald S Mehrotra, M Daskin, A Skaro, M Abecassis, "Demonstrating Geographic Equity in Kidney Organ Allocation – Satisfying the Final Rule At Last," working paper

A Davis, MS Daskin, S Mehrotra J Holl, "Nurse Staffing to Reduce Costs and Enhance Patient Safety," working paper

Oral Presentations

"Improving Utilization and Outcomes of High Kidney Donor Profile Index Kidney INFORMS Annual Meeting	y Transplants"	2012
"Ameliorating Geographic Disparities in Kidney Transplantation Rates via Option American Transplant Congress INFORMS Healthcare Conference American Society of Nephrologists Conference INFORMS Annual Meeting	mization Approd	aches" 2011
"Analysis of Kidney Transplant Center Locations in the United States" American Transplant Congress American Society of Nephrologists Conference INFORMS Healthcare Conference	2010	0/2011
"Distribution Robust Newsvendor Models for Shift Nurse Demand Estimation" INFORMS Annual Meeting IERC Conference		2010
Poster Presentations		
"Improving Utilization and Outcomes for High Kidney Donor Profile Index Kidne American Transplant Congress Lewis Landsberg Research Day, Northwestern University	eys"	2012
"Ameliorating Geographic Disparities in Kidney Transplantation Rates via Option & Gwen Smart Symposium, Northwestern University Synapse: Applied Healthcare Operations Management & Research Conference Lewis Landsberg Research Day, Northwestern University		2012
"Analysis of Dialysis Center Locations in Illinois" American Transplant Congress		2010
"Use of the Kidney Donor Risk Index to Assess Organ Utilization in a Single OPO American Transplant Congress	"	2010
"Geographic Access of Liver Transplant Patients to US Transplant Centers" American Association for the Study of Liver Diseases ** Awarded "Poster of Distinction," given to top 10% of submitted abstraction.	acts	2010
Teaching Experience		
Grader, Northwestern University IEMS 407 – Decision Tools for Managers	Fall & Winte	r 2012
Teaching Assistant, Northwestern University IEMS 313 – Deterministic Models and Optimization IEMS 391 – Industrial Engineering Design	Winter, 2010 Winte), 2011 r 2011

Professional Experience

Transplantation Internship, Northwestern Memorial Hospital

Summer 2009

- > Attended daily meetings with transplantation surgeons and outcomes research teams to learn the transplantation process.
- Shadowed surgeons and residents during meetings with pre- and post-transplantation patients

Operational Effectiveness Internship, St. Elizabeth's Health Center

Summer 2008

Aided process improvement teams with various hospital processes issues through statistical and conceptual support using Lean Six Sigma Quality principles

Honors

Health Services Research R36 Dissertation Award 2011 Awarded by the Agency for Healthcare Research and Quality (AHRQ) IEMS Outstanding Teaching Assistant of the Year, Northwestern 2009-2010, 2010-2011 Awarded favorite teaching assistant by the undergraduate industrial engineering student body Murphy Fellow, Northwestern 2008 Full-tuition funding awarded to top first-year Industrial Engineering PhD students The David H. Levy Outstanding Senior Award, Washington University in St. Louis 2008 Awarded to top graduating senior of the Systems Science and Engineering department Brown Engineering Scholarship, Washington University in St. Louis 2006-2008 Full tuition scholarship awarded to top dual-degree engineering program applicant *Elon Excellence in Engineering Award, Elon University* 2006 Awarded to top graduate of the dual-degree engineering program Elon Presidential Scholarship, Elon University 2003-2006 Annual partial tuition funding awarded to top 15% of entering freshmen

Leadership

Dunaidant

Student chapter of INFORMS, Northwestern	2010-2011
Industrial Engineering Student Representative McCormick Graduate Leadership Council, Northwestern	2010-2011
Graduate Student Representative Industrial Engineering Graduate Leadership Council, Northwestern	2008-2011
Board Member Systems Science and Engineering Student Advisory Board, Washington University in St.	<i>2006-2008</i> Louis
Founder Elon Engineering Mentoring Program to mentor beginning engineering students, Elon	2006

2010 2011

Academic Society Affiliations

- Phi Eta Sigma
- ➤ Pi Mu Epsilon
- ➤ Sigma Xi
- ➤ Phi Kappa Phi
- Tau Beta Pi

References

Sanjay Mehrotra, PhD Advisor

Professor of Industrial Engineering and Management Sciences Northwestern University 2145 Sheridan Road, Room C210 Evanston, IL 60208 mehrotra@northwestern.edu

Mark S Daskin, PhD Defense Committee Member

Professor and Chair of Industrial and Operations Engineering University of Michigan 1205 Beal Avenue
Ann Arbor, Michigan 48109 msdaskin@umich.edu

Baris Ata,

Associate Professor of Managerial Economics & Decision Sciences Kellogg School of Management Northwestern University 2001 Sheridan Road Evanston, IL 60208 b-ata@kellogg.northwestern.edu

Michael M Abecassis, PhD Defense Committee Member

Director, Comprehensive Transplant Center Chief, Division of Surgery – Organ Transplantation NMH/Arkes Family Pavilion Suite 1900 676 N Saint Clair Chicago, IL 60611 mabecass@nmh.org