

# ROBERT K. HAMMOND

Operations Research and  
Industrial Engineering  
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## EDUCATION

- 2011-Present**    **The University of Texas at Austin**, Austin, Texas  
Ph.D. Operations Research and Industrial Engineering  
Adviser: J. Eric Bickel  
GPA: 3.8/4.0
- 2009–2011**    **The University of Texas at Austin**, Austin, Texas.  
M.S. Operations Research and Industrial Engineering, August 2011.  
Adviser: J. Eric Bickel  
Thesis: "Decision Impact of Stochastic Price Models in the Petroleum Industry."  
Thesis work in conjunction with Professor James E. Smith, Duke University  
GPA: 3.8/4.0
- 2005–2009**    **The University of Texas at Austin**, Austin, Texas.  
B.S., with Honors, Electrical and Computer Engineering, May 2009.  
GPA: 3.8/4.0

## ACADEMIC EXPERIENCE

- 2011–Present**    **The University of Texas at Austin**, Austin, Texas  
Graduate Research Assistant,  
*Research Focus:* Discretization of continuous probability distributions for decision analysis. Practical implications and effects of discretization, particularly with inaccurate probability assessments.
- 2011**            **The University of Texas at Austin**, Austin, Texas  
Teaching Assistant, graduate level Decision Analysis course  
Held weekly review sessions to augment class lectures.
- 2010–2011**    **The University of Texas at Austin**, Austin, Texas.  
Graduate Research Assistant.  
*Research Focus:* Studied the impact of stochastic price models on decision making in the petroleum industry. Research includes decision analysis methods, Monte Carlo simulation, and option pricing methods. Performed studies using Mathematica and @Risk for Excel.
- 2008–2009**    **The University of Texas at Austin**, Austin, Texas.  
Undergraduate Research Assistant.  
*Research Focus:* Performed computational study of a combined optimization and heuristic algorithm to assess its performance. Programmed in C and MATLAB.

## **PROFESSIONAL EXPERIENCE**

**2011–Present** **Caesar Systems**, Houston, Texas (Part-Time)

Part-Time Intern

*Focus:* Support clients and internal consultants in modeling petroleum fiscal systems. Managed project to develop a fiscal system modeling framework. Collaborated with international software development team.

**2008** **JPMorgan Chase**, Houston, Texas. (Summer)

Technology Analyst.

*Focus:* Worked with international development team, demonstrating strong interpersonal skills. Wrote JUnit tests for large enterprise application. Programmed in Java and Javascript to enhance web applications.

**2007** **Applied Research Laboratories**, Austin, Texas. (Summer and Part-Time)

Student Technician.

*Focus:* Developed software for embedded data collection system. Developed PC interface software for embedded hardware.

## **UNDER REVIEW**

Hammond, Robert K. and J. Eric Bickel. 2012. "Reexamining Discrete Approximations to Continuous Distributions." Under review at Decision Analysis (revise and resubmit).

## **WORK IN PROGRESS**

Hammond, Robert K. and J. Eric Bickel. "Decision Relevance of Stochastic Price Models in the Petroleum Industry."

Hammond, Robert K. and J. Eric Bickel. "Assessment Error in Subjective Probability Discretization."

Hammond, Robert K. and J. Eric Bickel. "Reexamining Swanson's Mean."

## **CONFERENCE PROCEEDINGS**

Coddou, Ginny, Robert Hammond, Marius Laaveg, Babafemi Ogunyomi, Asbjørn Raeder, Malin Svensson, and Peng Xu. 2012. "Fiscal System Modeling Framework," paper SPE 162893 presented at the *SPE Hydrocarbon Economics and Evaluation Symposium*, Calgary, Alberta, Canada, 24-25 September 2012.

## **RELEVANT COURSEWORK**

Decision Analysis, Decision Support Modeling (Multi-Criteria Decision Analysis), Game Theory, Engineering Economics I & II, Organizational Behavior, Markov Decision Processes, Linear Programming, Integer Programming, Mathematical Statistics, System Simulation,

Metaheuristics, Applied Stochastic Processes, Applied Probability, Applied Projects in Operations Research

## **OUTSIDE SERVICE**

2012 Vice President of University of Texas at Austin INFORMS Student Chapter.

2012 Organize monthly decision analysis seminars at The University of Texas at Austin.

2010-Present Member University of Texas at Austin INFORMS Student Chapter.

2010-Present Member Lambda Chi Alpha Texas Chapter Alumni Advisory Board.

## **AWARDS**

2011-2014 Thrust 2000 Graduate Fellowship in Engineering

2008 Joe B. Hoggsett Undergraduate Scholarship

2007 ECE Visiting Committee Centennial Scholarship

## **AFFILIATIONS**

Decision Analysis Society (DAS)

Society of Decision Professionals (SDP)

Institute for Operations Research and the Management Sciences (INFORMS)

Society of Petroleum Engineers (SPE)

Institute of Electrical and Electronics Engineers (IEEE)

Lambda Chi Alpha Fraternity

Omega Rho Honor Society

Tau Beta Pi Engineering Honor Society

Phi Kappa Phi Honor Society