

Civil and Environmental Engineering Curriculum Vitae

MARK HANSEN

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University of California at Berkeley

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EDUCATION

UNIVERSITY OF CALIFORNIA, Berkeley, California
Ph.D. in Transportation Engineering, 1988
Dissertation Title: *A Model of Airline Hub Competition*

UNIVERSITY OF CALIFORNIA, Berkeley, California
M.C.P. in City and Regional Planning, 1984

Yale College, New Haven, Connecticut
B.A., Physics and Philosophy, 1980

AWARDS AND HONORS

Honorary Professor, National University of Aeronautics and Astronautics, Nanjing, China, 2017
Blue Sky Chair, Civil Aviation University of China, Tianjin, China, 2016
Best Paper: Weather in ATM Track, Air Traffic Management R&D Seminar, Seattle, WA, 2017
Best Paper: Economics and Politics Track, International Conference on Research in Air Transportation,
Philadelphia, PA, 2016
Blue Sky Scholar, Civil Aviation University of China, Tianjin China, 2017
Francis X. McKelvey Award for Demonstrated Commitment to the Betterment of the Aviation Industry,
Transportation Research Board, 2015
Best Paper: Environment and Energy Efficiency Track, Air Traffic Management R&D Seminar, Chicago,
IL, 2013
Best Paper: Finance and Policy Track, Air Traffic Management R&D Seminar, Chicago, IL, 2013
Best Paper: Socio-Economic-Institutional Challenges and Socio-Technical Complexity in Air Transport
Track, International Conference on Research in Air Transportation, Berkeley, CA, 2012
Best Paper: Environment and Weather Track, International Conference on Research in Air Transportation,
Berkeley, CA, 2012
Best Paper: Weather in ATM, Air Traffic Management R&D Seminar, Berlin, Germany, 2011
Best Paper: Environmental and Weather Track, International Conference on Research in Air
Transportation, Budapest, Hungary, 2010
Best Paper: Prospective Studies and Economics Track, International Conference on Research in Air
Transportation, Budapest, Hungary, 2010

Best Paper: Finance and Policy, Air Traffic Management R&D Seminar, Napa, CA, 2009
Best Paper: Active ATM Performance Management, Barcelona, Spain, 2007
Best Paper: Human Factor Track, Air Traffic Management R&D Seminar, Baltimore, MD, 2005

ACADEMIC EXPERIENCE

HONORARY PROFESSOR, National University of Aeronautics and Astronautics, Nanjing, China, (May 2017 – Present)
BLUE SKY CHAIR, Civil Aviation University of China, Tianjin, China (April 2016 – Present)
PROFESSOR, University of California, Berkeley, CA (JUL 2006 - Present)
ASSOCIATE PROFESSOR, University of California, Berkeley, CA (JUL 1996 - JUN 2006)
ASSISTANT PROFESSOR, University of California, Berkeley, CA (JUL 1988 - JUN 1996)
ASSISTANT RESEARCH ENGINEER, University of California, Berkeley, CA (MAY 1988 – AUG 1988): Institute of Transportation Studies
LECTURER, University of California, Berkeley, CA (MAY 1988 – MAY 1988): Department of Civil Engineering
GRADUATE STUDENT INSTRUCTOR, University of California, Berkeley, CA (JAN 1988 – MAY 1988): Department of Civil Engineering
RESEARCH ASSISTANT, University of California, Berkeley, CA (JAN 1985 – MAY 1985): Institute of Transportation Studies
TEACHING ASSISTANT, University of California, Berkeley, CA (JAN 1984 – MAY 1984): Department of City and Regional Planning
RESEARCH ASSISTANT, University of California, Berkeley, CA (JAN 1983 – DEC 1984): Institute for Urban and Regional Development

COURSES TAUGHT (*selected*)

CE 301 – “Workshop Civil Engineering Teacher” (Varied semester units)
CE 299 – “Individual Research” (Varied semester units)
CE 298 – “Group Studies” (Varied semester units)
CE 290Z – “Selected Topics in Air Transportation” (2 semester units)
CE 262 – “Analysis of Transportation Data” (3 semester units)
CE 260 - "Air Transportation" (3 semester units)
CE 254 – “Transportation Economics” (3 semester units)
CE 253—“Design of Transportation Systems” (3 semester units)
CE 252 – “Systems Analysis in Transportation” (3 semester units)
CE C250N/ CY PLAN C217 – “Transportation Policy and Planning” (3 semester units)
CE 199 - “Supervised Independent Study” (Varied semester units)
CE 198 – “Directed Group Study” (2 semester units)
CE H194 – “Honors Undergraduate Research” (4 semester units)
CE 151 – “Transportation Planning and Implementation” (3 semester units)
CE 99 – “Supervised Independent Study” (2 semester units)
CE 93 – “Engineering Data Analysis” (3 semester units)

EXTENSION TEACHING

“Airport Systems Planning and Design,” ITS Tech Transfer, Faculty Member in Charge, 2007-present
“Diploma in Airport Engineering,” ITS—UC Berkeley and Singapore Aviation Academy, Faculty Member in Charge, 2011-present
“Airport System and Planning,” ITS—UC Berkeley and Singapore Aviation Academy, Instructor, 2011-present

RESEARCH SUPERVISION

M.S. (* indicates chair of thesis committee)

- “How Do Airlines Pick Their Scheduled Block Times?” Masters of Science Research Topic of Maxime Pierre Bernard Crepin, 2013.*
- “Double-Parked Commercial Vehicles and Bus Speeds in the Mission District of San Francisco,” Master of City Planning Research Topic of Kristen Elizabeth Carnarius, 2012.
- “Impacts of Mixed Media Air Traffic Control Communication Environment on Aviation Efficiency,” Master of Science Research Topic of Sarah K. Yenson, 2008.*
- “Annualization Methodologies for the Simulation of Future Concepts in the National Airspace System,” Doctoral Research Topic of Lyle Paladin-Tripp, 2006.*
- “Data and Discretion: Evaluating the Effectiveness of the FAA Safety Oversight System,” Master of City Planning Research Topic of Carolyn Ann McAndrews, 2006.
- “Analysis of Voting Outcomes of Local Transportation Sales Tax in Measures in Sonoma County,” Master of City Planning Research Topic of Robert Lewis Hannay, 2005.
- “How the Events of September 11, 2001, Have Impacted California: A Study of Corporate Aviation Trends,” Master of Science Research Topic of Erik Tomas Wilkins, 2002.*
- “Demand Responsive Transit for the General Public: An Assessment of Flexible Routing’s Current State and Possible Future in Suburbia,” Master of City Planning Research Topic of John David Beutler, 1999.
- “Incorporating Telecommuting into an Urban Travel Demand Model,” Master of Science Research Topic of Shirley Chan, 1998.
- “Comparing Centralized and Decentralized Vehicle Inspection and Maintenance Programs: Case Study of California and Arizona,” Master of City Planning Research Topic of Christopher Dale Porter, 1995.
- “Travel Patterns Within Transit and Pedestrian Oriented Neighborhoods,” Master of City Planning Research Topic of Carolyn Amalie Radisch, 1995.
- “Public Investment in the Highway System: The Impact on Economic Growth and Productivity 1969-1987,” Master of Science Research Topic of Ann Rebecca Fine, 1992.*

Ph.D. (* indicates chair of thesis committee)

- “Modeling and Forecasting the Impact of Major Technological and Infrastructural Changes on Travel Demand,” Doctoral Research Topic of Feras El Zarwi, 2017.
- “Changing Fuel Loading Behavior to Improve Airline Fuel Efficiency,” Doctoral Research Topic of Lei Kang, 2017.*
- “Finding Similar Days in Air Traffic Management,” Doctoral Research Topic of Sreeta Gorripathy, 2017.*
- “Quantifying the Impact of Flight Predictability on Strategic and Operational Airline Decisions,” Doctoral Research Topic of Lu Hao, 2015.*
- “Predictability in Air Traffic Flow Management,” Doctoral Research Topic of Yi Liu, 2015.*
- “Flight Cancellation Behavior and Aviation System Performance,” Doctoral Research Topic of Michael Thomas Seelhorst, 2014.*
- “Generating day-of-operation probabilistic capacity scenarios from weather forecasts,” Doctoral Research Topic of Gurkaran Singh Buxi, 2012.*
- “Analyzing the Structure of Informal Transport: The Evening Commute Problem in Nairobi, Kenya,” Doctoral Research Topic of Celeste Chavis, 2012.
- “Flight Delays, Capacity, Investment and Welfare under Air Transport System Equilibrium,” Doctoral Research Topic of Bo Zou, 2012.*
- “The Capitalization Effects of Work and Nonwork Accessibilities in Southeast Michigan,” Doctoral Research Topic of Guangyu Li, 2012.
- “Stochastic Queuing Models for Air Transportation Systems with Scheduled Arrivals,” Doctoral Research Topic of Anastasios Nikolaos Nikoleris, 2011.*
- “Collaborative Resource Allocation Strategies for Air Traffic Flow Management,” Doctoral Research Topic of Amy Miyoung Kim, 2011.*
- “Choosing Transit: The Influence of Past Travel Behavior,” Doctoral Research Topic of James Rubin, 2011.
- “Optimal Intercity Transportation Services with Heterogeneous Demand and Variable Fuel Price,” Doctoral Research Topic of Megan Smirti Ryerson, 2010.*

“Road Safety in the Context of Urban Development in Sweden and California,” Doctoral Research Topic of Carolyn Ann McAndrews, 2010.

“A Probabilistic Approach to the Air Traffic Management in the Next Generation Air Transportation System: Optimal Routing Decision with Geometric Recourse,” Doctoral Research Topic of Yoonjin Yoon, 2010.*

“Revealed Preference of Airlines’ Behavior under Air Traffic Management Initiatives,” Doctoral Research Topic of Jing Xiong, 2010.*

“Taking for Takeoff: Incidence of Airport Taxes,” Doctoral Research Topic of Chengchou Edward Huang, 2009.

“Evaluating the System Impact of En Route Delay,” Doctoral Research Topic of Huifang Yin, 2009.*

“Large Scale Modeling and Optimization of En Route Traffic Air Traffic Flow,” Doctoral Research Topic of Dengfeng Sun, 2008.

“Charter vs Scheduled Airlines,” Doctoral Research Topic of Gautam Gupta, 2008.*

“Managing Uncertainty in the Single Airport Ground Holding Problem using Scenario-based and Scenario-free Approaches,” Doctoral Research Topic of Pei-Chen Liu, 2007.*

“Real-Time Intermodal Strategies for Airline Schedule Perturbation Recovery and Airport Congestion Mitigation under Collaborative Decision Making (CDM),” Doctoral Research Topic of Yu Zhang, 2006.*

“Passenger Demand for Air Transportation in a Hub-and-Spoke Network,” Doctoral Research Topic of Chieh-Yu Hsiao, 2008.*

“Automation Adoption and Adaptation in Air Traffic Control,” Doctoral Research Topic of Tatjana Srdija Bolic, 2006.*

“Airport and Station Accessibility as A Determinant of Mode Choice,” Doctoral Research Topic of Reinhard Clever, 2006.*

“The Effects of Fixed-Route Transit Service Contracting on Labor,” Doctoral Research Topic of Songju Kim, 2005.

“Airline Schedule Recovery Following Disturbances: An Organizationally-Oriented Decision-Making Approach,” Doctoral Research Topic of Sheng-Chen Huang, 2005.

“Robust Markov Decision processes with Uncertain Transition Matrices,” Doctoral Research Topic of Arnab Nilim, 2004.

“Dynamic Stochastic Optimization Models for Air Traffic Flow Management,” Doctoral Research Topic of Avijit Mukherjee, 2004.*

“Airlines’ Choice of Aircraft Size in a Competitive Environment,” Doctoral Research Topic of Wenbin Wei, 2000.*

“Firm Inventory Behavior and the Returns from infrastructure investment,” Doctoral Research Topic of Robert Lindsey Bristol, 2000.

“Increasing Airline Operational Control in a Constrained Air Traffic System,” Doctoral Research Topic of Jennifer Rausch Goodhart, 2000.

“Commercial Vehicle Value of Time and perceived Benefit of Congestion Pricing,” Doctoral Research Topic of Kazuya Kawamura, 1999.

“Non-Work Activity Scheduling Effects in the Timing of Work Trips,” Doctoral Research Topic of Rosella Picado, 1999.*

“A Utility-Theory Consistent System-of-Demand-Equations Approach to Household Choice Travel,” Doctoral Research Topic of Kara Maria Kockelman, 1998.*

“Assessing the Benefits of Automated Pedestrian Movement Systems in Airport Terminals,” Doctoral Research Topic of Seth Bennett Young, 1998.*

“The Timing of Activity and Travel Planning Decisions,” Doctoral Research Topic of Christoffel Jacobus Venter, 1998.*

“On Whom the Toll Falls: A Model of Network Financing” Doctoral Research Topic of David Matthew Levinson, 1998.*

“Time-of-Day Effects in Inter-City Business Travel,” Doctoral Research Topic of Shomik Raj Mehnidratra, 1996.*

“Transportation and The Location of Interactive Activities,” Doctoral Research Topic of Yuanlin Huang, 1996.*

“A Comparison of Freight Distribution Costs for Combination and Dedicated Carriers in the Air Express Industry,” Doctoral Research Topic of Max Karl Kiesling, 1995.*

“The Impact of International Aviation Liberalization: the North Atlantic Routes as a Case Study,” Doctoral Research Topic of Eric Georges Maillebiau, 1994.*

“Causes, Motivations and Supply-Side Implications of International Airline Equity Alliances,” Doctoral Research Topic of Waleed Ahmed Hafez Youssef, 1994.*

“Interaction Between Congestion Pricing and Advanced Traveler Information Systems,” Doctoral Research Topic of Jae Choon Lee, 1991.

“Traffic Flow Characteristics of Signalized Arterials under Disturbance Situations,” Doctoral Research Topic of Lee David Han, 1991.

“Technical Choices and Economic Trade-Offs in Highway Design, Construction and Maintenance,” Doctoral Research Topic of Jianfei Zhang, 1991.

“Near Midair Collisions as an Indicator of General Aviation Collision Risk,” Doctoral Research Topic of H Paul Shuch, 1990.

“Scared Precedence Activity Network (Span) Approach to Design of Transportation Systems: A Methodology Developed to Introduce Road Facilities,” Doctoral Research Topic of Mark Evan Pitstick, 1991.

“Hub Dominance and Pricing in the Airline Industry,” Doctoral Research Topic of Melanie G Mauldin, 1990.

“The Relationship between Transportation Services and Urban Activities: The Food Retail Distribution Case,” Doctoral Research Topic of Young Bin Yim, 1990.

UNIVERSITY SERVICE

Chair, CEE Strategic Planning Committee, 2016-present.

Chair, TE Admissions Committee, 2017-present.

Member, Women’s Faculty Club Board, 2014-present.

Member, TE Admissions Committee, 2016-2017.

Member, Committee on Educational Policy, University of California, Berkeley, 2013-2015.

Co-Director, National Center of Excellence for Aviation Operations Research, 2002-present.

Member, Ad hoc committee, Mid-career Review, 2014

Member, CEE Executive Committee, 2007-2008, 2010-2015.

Member, Cal Answers Advisory Committee, University of California, Berkeley, 2013-2015

Member, Student Relations Committee, University of California, Berkeley, 2013-2014.

Chair, Ad hoc committee, Promotion to Professor, 2013-14.

Member, Ad hoc committee, Promotion to Professor, 2012-13.

Member, Ad hoc committee, Promotion to Adjunct Associate Professor, 2012-13.

Member, Ad hoc committee, Promotion to Associate Professor, 2011-12.

Member, CEE Strategic Planning Committee, 2013.

Member, CEE Faculty Search Committee, 2011-12.

Member, CEE Outreach and Enrollment Committee, 2007-2008, 2009-2011.

Group Leader, Transportation Engineering (TE), 2010-2015.

Graduate Student Advisor, Transportation Engineering Group. 2008-present.

Member, ITS Executive Committee. 1996-present.

PROFESSIONAL ACTIVITIES

Member, Singapore Aviation Academy Advisory Board 2015-present

Member, Scientific Advisory Panel, Air Traffic Management Research Institute, National Technical University of Singapore, 2017-present

Conference Chair, Global Workshop on Airspace Systems Performance, Tianjin China, July 2016, 2015-2016

Topic Area Manager, Topic Area A, World Conference on Transportation Research Society, June 2014 – present.

Member, Transportation Research Board Committee on Short-haul Intercity Passenger Travel, 2012-2015

Chair, Transportation Research Board, Committee AV060, Airport and Airspace Capacity Delay, 2005-2011.

Co-Chair, NAS Performance Workshop, March 2015, Pacific Grove, CA, 2014-2015

Co-Organizer and Program Committee Member, FAA- Eurocontrol ATM R&D Conference

- June 2017, Seattle, WA, 2016-2017
- June 2015, Lisbon, Portugal, 2014-2015
- June 2013, Chicago, IL, 2012-2013
- June 2011, Berlin, Germany, 2010-2011
- July 2009, Napa, CA 2008-2009
- July 2007, Barcelona, Spain 2006-2007
- June 2005, Baltimore, MD 2004-2005

Editorial Advisory Board, Transportation Research E., 1/2014 – present.

Editorial Board, Associate Editor, Operations Research, 2007 – 2013.

Co-Organizer and Program Committee Member, International Conference for Research in Air Transportation

- June 2016, Philadelphia PA, 2015-2016
- May 2014, Istanbul, Turkey, 2013-2014
- May 2012, Berkeley, CA, 2011-2012 (Local Organizer)
- May 2010, Budapest, Hungary, 2009-2010

Member, Air Transportation Research Society Networking Committee, 1995-present.

Member, National Academy of Sciences Study Committee. Committee on Intercity Passenger Travel: Opportunities and Issues in Short-haul Markets, 2011-present

Reviewer Activities, Archival Journals

- Transportation Research A
- Transportation Research B
- Transportation Research C
- Transportation Research E
- Air Traffic Control Quarterly
- Journal of Air Transport Management
- Management Science
- Journal of Aerospace Information Systems
- Transportation Research Record
- Journal of Transportation Economics and Policy
- Journal of the American Planning Association
- Euro Journal of Transportation and Logistics
- Journal of Transportation Policy

Reviewer Activities, Other

- “BSc(Hons) in Aviation Operations and Systems,” Program Validation Board, The Hong Kong Polytechnic University, 2016
- “FAA Planning and Implementation of NEXTGEN,” General Accountability Office, Subject Matter Expert, 2016
-
- “Approach for Determining Future Air Traffic Controller Staffing Needs,” National Academy of Sciences,” 2014
- “Advancing Aeronautics: A Decision Framework for Selecting Research Agendas Rand Corporation,” 2010

TESTIMONY

United States Senate Finance Committee, Airport and Airway Trust Fund: Future of Aviation Financing, 2007

California Assembly Committee on Transportation. Testified on need for improved demand forecasts for California High Speed Rail, 2012

CONSULTING EXPERIENCE

Airport Cooperative Research Program: Member of project team for ACRP Project 3-40: Air Demand in a Dynamic Competitive Context with the Automobile, 2016-present

Airport Cooperative Research Program: Member of project team for ACRP Project 3-23: Integrating Aviation and Passenger Rail Planning, 2010-2014.

Airport Cooperative Research Program: Member of project team for ACRP Project 3-17: Evaluating Airfield Capacity, 2009-2012.

Airport Cooperative Research Program: Member of project team for ACRP Project 3-10: Innovative Approaches to Addressing Aviation Capacity Issues in Coastal Mega-regions, 2008-2009.

Airport Cooperative Research Program: Member of project team for ACRP Project 3-10: Innovative Approaches to Addressing Aviation Capacity Issues in Coastal Mega-regions, 2008-2009.

Los Angeles World Airports: Served on Academic Panel that assessed safety and capacity benefits from alternatives for re-configuring the North Airfield at LAX, 2008-2010.

Airport Cooperative Research Program, Member of project team for ACRP project 3-17: Evaluating Airfield Capacity, 2009-2012.

Airport Cooperative Research Program, Member of project team for ACRP project 2-23: Integrating Aviation and Passenger Rail Planning, 2011-present.

United States Congress General Accountability Office: Provided technical advice on modeling the impact of the Department of Transportation Tarmac Delay Rule on flight cancellations, 2011.

RESEARCH GRANTS

“Rail and the California Economy,” California Department of Transportation, 3/2015 – 4/2017, \$434,156

“Evaluation of En Route Performance Measures,” University of Maryland (College Park), 10/2015 – 9/2017, \$227,215

“Optimization and Prediction for a Collaborative Trajectory Options Program Decision-Support Capability,” Metron Aviation, 9/2016 – 9/2019, \$343,689

“Big Data Analytics for Aeronautics,” ATAC Corporation, 10/2016 – 5/2017, \$95,657

“Airport Weather Profiles: Long-Term Airport Planning Tool,” National Academy of Sciences, 9/2015-9/2016, \$10,000

“Similar Days in the NAS,” NASA, 8/2014 – 7/2017, \$1,200,000

“Evaluation of Predictability as a Performance Measure,” University of Maryland (College Park), 8/2014 – 5/2016, \$125,000

“Using Tactical Air Traffic Management to Improve Schedule Reliability,” NASA Ames University Affiliated Research Center, UC Santa Cruz, 10/2014 – 5/2016, \$113,206

“Tactical Rerouting: A Data Mining Study,” NASA Ames University Affiliated Research Center, UC Santa Cruz, 10/2014 – 6/2016, \$220,126

“Data Warehouse in a Laptop (DWiL),” NASA Ames University Affiliated Research Center, UC Santa Cruz, 12/2013 - 09/2014, \$27,000

“Behavioral Analysis of Flight Rerouting,” NASA Ames University Affiliated Research Center, UC Santa Cruz, 12/2013 - 09/2014, \$69,000

“Predictability Measurement and Valuation in Air Traffic Management,” NASA Ames University Affiliated Research Center, UC Santa Cruz, ARP 2013, 01/2013 - 06/2014, \$40,000

“Cost of Delay to Cargo and Overnight Package Delivery Firms,” University of Maryland (College Park), NEXTOR II: DO 20, 09/2012 - 08/2014, \$104,028

“Distributed Mechanisms for Determining NAS-Wide Service Level Expectations,” University of Maryland (College Park), 09/2011 - 09/2014, \$287,980

“Airline Operation Efficiency, CO₂, Emissions, and Comparative Airline Ranking,” International Council on Clean Transportation (ICCT), 07/2011 - 05/2012, \$139,704

“Aviation and the Environment: Models of a Pollutant-Constrained Aviation System,” UC Santa Cruz, 01/2011 - 12/2011, \$100,000

“Fuel Consumption Data for Specific Flights Material Transfer Agreement,” Delta Airlines, Inc., 08/2010 - 08/2012

“Impact of the Loss System Index on NAS Risk Factors,” DOT FAA Federal Aviation Administration, 03/2010 - 12/2011, \$75,000

“Performance Based Ground Delay Program Decision Making Using Multiple Criteria,” National Academy of Sciences, 05/2013 - 09/2013, \$10,000

“Predictability Measurement and Valuation in Air Traffic Management,” UC Santa Cruz, 01/2012 - 05/2013, \$40,000

“The Impact of Oil Prices on the Air Transportation Industry,” University of Maryland (College Park), 09/2011 - 06/2013, \$121,893

“New Concepts and Metrics for Flight Predictability,” University of Maryland (College Park), 09/2011 - 09/2013, \$126,550

“Analytical Support to the FAA Office of Performance Analysis and Strategy,” University of Maryland (College Park), 09/2011 - 12/2013, \$96,399

“Airline Operation Efficiency, CO2, Emissions, and Comparative Airline Ranking,” International Council on Clean Transportation (ICCT), 07/2011 - 07/2012, \$139,704

“Aviation and the Environment: Models of a Pollutant-Constrained Aviation System,” UC Santa Cruz, 01/2011 - 04/2012, \$100,000

“Flight Performance Model Development and Validation,” DOT FAA Federal Aviation Administration, 11/2010 - 08/2011, \$99,944

“New Resource Allocation mechanisms for AFP Planning,” DOT FAA Federal Aviation Administration, 09/2010 - 08/2011, \$140,000

“New Resource Allocation Mechanisms for AFP Planning,” DOT FAA Federal Aviation Administration, 09/2010 - 05/2012, \$140,000

“Efficient Descent Advisor for 3D-ah Arrival management (3D-PAM),” UC Santa Cruz, 05/2010 - 03/2011, \$42,013

“California High Speed Rail Ridership Forecasting Study,” California High-Speed Rail Authority, 04/2010 - 07/2010, \$35,970.

“Distributed Mechanisms for Determining NAS-Wide Service Level Expectations,” DOT FAA Federal Aviation Administration, 04/2010 - 05/2011, \$100,000

“Impact of the Loss System Index on NAS Risk Factors,” DOT FAA Federal Aviation Administration, 03/2010 - 12/2011, \$75,000

“Dwight David Eisenhower Transportation Fellowship Program for Anastasios Nikoleris,” DOT Federal Highway Administration, 09/2009 - 09/2010, \$1,500

“Air Transport Supply-Demand Equilibrium Models,” DOT FAA Federal Aviation Administration, 08/2009 - 06/2011, \$75,000

“TFM Strategic Flow Management Research Whitepaper Development,” DOT FAA Federal Aviation Administration, 07/2009 - 06/2010, \$50,000.

“Dwight David Eisenhower Transportation Fellowship Program 2008 Eisenhower Graduate Fellowships,” DOT Federal Highway Administration, 09/2008 - 09/2009, \$11,500

“Air Transportation: Total Cost of Delay and Its Impact on the US Economy and Productivity,” DOT FAA Federal Aviation Administration, 09/2008 - 08/2010, \$362,500

“The Dwight David Eisenhower Transportation Fellowship Program 2008 Eisenhower Graduate Fellowships,” DOT Federal Highway Administration, 09/2008 - 09/2009, \$1,500

“NASA NextGen Advanced Projects and Vehicles,” Raytheon, 08/2008 - 12/2009, \$129,109

“Performance Metrics and Measurement Conference, Asilomar, CA,” DOT FAA Federal Aviation Administration, 06/2008 - 05/2009, \$60,000

“Air Traffic Management Fundamental Research,” UC Santa Cruz, University Affiliated Research Center, 03/2008 - 09/2008, \$35,000.

“Models and Analysis to Support Airport Congestion Management,” DOT FAA Federal Aviation Administration, 01/2008 - 03/2010, \$89,996

“Dwight David Eisenhower Transportation Fellowship Program for Amy Kim,” DOT Federal Highway Administration, \$61,500.

“Dwight David Eisenhower Transportation Fellowship Program for Brittany Montgomery,” DOT Federal Highway Administration, 09/2007 - 09/2008, \$1,500

“Methodology for Infrastructure and Life Cycle Costs for General National Airspace System (GNAS) Facilities,” DOT FAA Federal Aviation Administration, 08/2007 - 09/2008, \$120,000

“Valuation of Schedule Changes in Response to Air Traffic System Constraints,” DOT FAA Federal Aviation Administration, 08/2007 - 07/2008, \$100,000

“Queuing Models of the Impact of 4D Trajectory Precision on Aviation System Performance,” Advanced Stochastic Network, 08/2007 - 03/2011, \$966,966

“Performance Metrics and Measurement Conference, Asilomar, CA,” DOT FAA Federal Aviation Administration, 08/2007 - 09/2007, \$56,000

“Benefits Analysis for Data Communications,” DOT FAA Federal Aviation Administration, 04/2007 - 01/2008, \$100,000

“The Automated Dependent Surveillance-Broadcast (ADS-B),” Raytheon, 03/2007 - 02/2008, \$25,006

“Validation of Airport Capacity Models,” DOT FAA Federal Aviation Administration, 02/2007 - 08/2007, \$32,500.

“Capacity Scenarios for Dynamic, Stochastic Models for Managing Air Traffic Flows,” University of Maryland (College Park), 10/2006 - 09/2010, \$373,842

“A Unified Approach to Strategic Models and Performance Evaluation for Traffic Flow Management,” National Aeronautics and Space Administration, 10/2006 - 09/2010, \$992,262

“Alternative Demand Scenarios,” DOT FAA Federal Aviation Administration, 09/2006 - 06/2007, \$35,000.

“Methodology for Condition Assessment of Unstaffed Facilities for the National Airspace System Infrastructure,” DOT FAA Federal Aviation Administration, 09/2006 - 12/2007, \$50,000.

“Assessment of En Route Sector Performance and Operational Concept Evaluation Using Fast-time Computational Model of Humans Performance,” DOT FAA Federal Aviation Administration, 07/2006 - 06/2008, \$541,464.

“Collaborative Decision Making (CMD) and Air Traffic Flow Management,” DOT FAA Federal Aviation Administration, 06/2006 - 08/2007, \$75,000

“UC Berkeley Strategy Simulator 2006,” DOT FAA Federal Aviation Administration, 03/2006 - 06/2008, \$120,000

“Analysis of Benefits Provided by Traffic Management Advisor,” DOT FAA Federal Aviation Administration, 11/2005 - 06/2008, \$300,000.

“Using ACES for Near-Term Decision Making,” DOT FAA Federal Aviation Administration, 09/2005 - 08/2006, \$144,000.

“Methodology for Estimating Airport Capacity and Throughput Performance Using PDAR,” DOT FAA Federal Aviation Administration, 09/2005 - 08/2006, \$149,997

“Methodology for Condition of Unstaff Facilities for the National Airspace System Infrastructure Assets,” DOT FAA Federal Aviation Administration, 05/2005 - 05/2006, \$186,062

“Demand Management Seminars for the Aviation Community,” DOT FAA Federal Aviation Administration, 09/2004 - 06/2007, \$50,000

“Handling Uncertainty in Air Traffic Management System via Robust Optimization Methods,” NASA Ames University Affiliated Research Center, UC Santa Cruz, 09/2004 - 06/2007, \$105,110

“VAMS Chief Blending Architect (CBA) Expertise,” UC Santa Cruz, 09/2004 - 09/2006, \$375,527

“Graduate Student Research (GSR) Support for VAMS,” UC Santa Cruz, 09/2004 - 06/2007, \$264,800

“Development of a National Database of Air Passenger Survey Data,” DOT FAA Federal Aviation Administration, 09/2004 - 04/2006, \$92,000

“Slot Auctions at US Airports,” DOT FAA Federal Aviation Administration, 09/2004 - 01/2006, \$250,226

“Methodology for En Route Sector Performance Assessments,” DOT FAA Federal Aviation Administration, 09/2004 - 04/2006, \$182,500.

“Collaborative Decision Making, Calendar Year 2004,” DOT FAA Federal Aviation Administration, 08/2004 - 04/2006, \$78,344

“National Airspace System Strategic Decision Support Model: Phase 3,” DOT FAA Federal Aviation Administration, 07/2004 - 01/2006, \$160,000

“Analytical Support for the Free Flight Program Office,” DOT FAA Federal Aviation Administration, 11/2003 - 02/2005, \$309,000

“Analytical Support for the Global Aviation Information Network Phase 5,” DOT FAA Federal Aviation Administration, 10/2003 - 12/2004, \$209,864

“NEXTOR Program Support,” DOT FAA Federal Aviation Administration, 10/2003 - 09/2004, \$15,136

“Air Traffic Management Optimization Under Uncertainty,” NASA Ames University Affiliated Research Center, UC Santa Cruz, 09/2003 - 12/2004, \$100,000

“National Center of Excellence in Aviation Operations Research,” DOT FAA Federal Aviation Administration, 08/2003 - 08/2004, \$134,364

“Oversight Evaluation Tool Project,” DOT FAA Federal Aviation Administration, 08/2003 - 01/2006, \$602,415

“University of California/NEXTOR FAA Short Course on Performance Measurement in Aviation Operations,” DOT FAA Federal Aviation Administration, 08/2003 - 12/2004, \$55,000

"National Center of Excellence in Aviation Operations Research," DOT FAA Federal Aviation Administration, 08/2003 - 05/2004, \$50,000
 "Nextor Program Management," DOT FAA Federal Aviation Administration, 03/2003 - 04/2007, \$965,525.
 "Comprehensive Evaluation of Investments in the FAA Terminal Business Services (ATB) Environment," DOT FAA Federal Aviation Administration, 11/2002 - 07/2004, \$210,000.
 "NAS Equipment Maintenance and Air Traffic Data to Support Air Traffic Services Model Enhancements," Gelman Research Associates, Analysis of Weather, 10/2002 - 12/2003, \$58,000
 "Analysis of Controller-Pilot Voice Communication to Support Data Link Investment Analysis," DOT FAA Federal Aviation Administration, 09/2002 - 09/2003, \$150,000.
 "NEXTOR FAA Executive Workshop," DOT FAA Federal Aviation Administration, 09/2002 - 03/2004, \$79,000
 "Eisenhower Fellowship for Natasha Goguts," DOT Federal Highway Administration, 08/2002 - 08/2005, \$62,300
 "Infrastructure Performance and Investment Analysis," DOT FAA Federal Aviation Administration, 08/2002 - 08/2003, \$60,000
 "Module Development of the Strategic Simulator," DOT FAA Federal Aviation Administration, 07/2002 - 12/2003, \$230,000
 "Analytical Support for Free Flight Phase I-Year 3," DOT FAA Federal Aviation Administration, 03/2002 - 06/2004, \$670,000.
 "Analytical Support for the Global Aviation Information Network Phase 4," DOT FAA Federal Aviation Administration, 03/2002 - 09/2003, \$200,000
 "Analysis of Avoidable En Route Delta Associated with CIWS," MIT Massachusetts Institute of Technology, 07/2001 - 04/2003, \$62,076
 "Airports and Air Quality: Emissions, Conformity, and Mitigation," Los Angeles Department of Airports, 09/2000 - 04/2002, \$40,000
 "Development of a Scope of Work for Airport Land Use Planning in Los Angeles County," California Department of Transportation, 02/2000 - 10/2000, \$19,900
 "Induced Demand: A Regional Perspective on the Travel Demand Impacts of Road Improvements," EPA Environmental Protection Agency, 07/1999 - 06/2001, \$125,000
 "Influence of Capacity Constraints on Airline Fleet Mix (UCB-ITS-4183)," Los Angeles Department of Airports, 05/1999 - 05/2001, \$95,000.
 "Development of Fast-Time Simulation Techniques to Model Safety Issues in the National Airspace System," ATAC Analytic Technologies Application Corp, 04/1999 - 01/2002, \$96,250
 "Center Sector Tools Descent Advisor Research (Delivery Order 002 Under DTFA03-97-D-00004)," DOT FAA Federal Aviation Administration, 05/1997 - 09/1998, \$100,000
 "ATM Concept Baseline Definition (Delivery Order 001 Under DTFA03-97-D-00004)," DOT FAA Federal Aviation Administration, 04/1997 - 09/1999, \$913,000
 "Rural And Small Urban Transit Guide For Planning, Coordinating And Marketing Intercity Bus Transportation Services," California Department of Transportation, 06/1995 - 09/1996, \$75,000
 "Light Rail System Safety Improvements Using Ivhs Technologies - A Case Study," California Department of Transportation, 02/1994 - 07/1995, \$164,790
 "Development Of An Integrated Model For The Evaluation Of Commercial Air Service In A Multi-Airport Region," California Department of Transportation, 02/1994 - 06/1995, \$132,500
 "Evaluation Of The I-110 Corridor Smart Card Demonstration Project," California Department of Transportation, California Department of Transportation, 02/1994 - 06/1995, \$102,469
 "Eisenhower Graduate Transportation Fellowship," DOT Federal Highway Administration, 09/1993 - 08/1996, \$58,209.
 "Evaluation Methodology For Deploying Electric Buses In Transit And Paratransit Services," California Department of Transportation, 08/1993 - 12/1994, \$75,841
 "Path - Mou 79 Development Of An Integrated Model For The Evaluation Of Commercial Air Service In A Multi-Airport Region," California Department of Transportation, 07/1992 - 08/1993, \$50,000.
 "Evaluating the Impacts of U.S. Airline Mergers on Small-and-Medium-Hub Airports," Transportation Research Board, \$10,000 - Pending
 "Evaluating the Compounding Effect of Flight Delay on Ground Transport," Transportation Research Board, \$10,000, - Pending

“Demonstration Scenarios of Recent FAA Modernization Efforts,” Jerry Thompson and Associates, Inc., \$361,531 - Pending

PUBLICATIONS

*Please refer to the attached list
that was produced from our department’s publications database
and includes publications which were listed on your
previously submitted Annual Supplements to the Bio-Bibliography forms*

Please update the list with any new or missing publications for inclusion with your CV

INVITED PRESENTATIONS (in addition to papers presented at conferences)

“The Route Not Traveled: An Econometric Model of En Route Flight Inefficiency in the US,” Transportation Science and Logistics First Triennial Conference, Chicago, IL, 7/2017
“Big Data Analytics in Civil Aviation,” Civil Aviation University of China, Tianjin, China, 6/2017
“The Economics of Flight Delay and Unpredictability,” Civil Aviation University of China, Tianjin, China, 6/2017
“Big Data Analytics in Civil Aviation,” National University of Aeronautics and Astronautics, Nanjing, China, 6/2017
“The Economics of Flight Delay and Unpredictability,” National University of Aeronautics and Astronautics, Nanjing, China, 5/2017
“Total Delay Impact Study,” NEXTOR 20th Anniversary Symposium, College Park, MD, 9/2016
“Measuring and Modeling En Route Flight Efficiency: the US Experience,” GWASP Conference, Tianjin, China, 7/2016
“A Multi-modal Perspective on Interregional Passenger Travel,” Aviation Insight Series,” Singapore Aviation Academy, Singapore, 6/2016
“A Multi-modal Perspective on Interregional Passenger Travel,” Symposium on Complexity Science in Air Transportation,” Beihang University, Beijing, China, 4/2016
“Research Overview,” Civil Aviation University of China, Tianjin, China, 4/2016
“Similar Historical Days and Air Traffic Flow Management Response Strategies,” Civil Aviation University of China, Tianjin, China, 4/2016
“Similar Historical Days and Air Traffic Flow Management Response Strategies,” Air Traffic Flow Management Workshop, Nanjing, China, 4/2016
“Airline Competition and Market Frequency: A Comparison of the S-curve and Schedule Delay Models,” COTA International Conference for Transportation Professionals, Beijing China, 7/2015
“Role of Aviation in a Multi-modal Transportation System,” Keynote Address, COTA International Conference for Transportation Professionals, Beijing China, 7/2015
“Predictability in Air Traffic Management, NEXTOR Symposium, Washington, DC, 5/2015
“Predictability in Air Traffic Management,” University of Pennsylvania, 3/2015
“Predictability in Air Traffic Management,” Georgia Tech University, 3/2015
“Evaluation of Predictability as a Performance Measure,” Global Challenges Workshops, Asilomar CA, 2/2015
“Implications of MH370 for ATC and ATM,” Transportation Research Board Annual Meetings, Washington, DC, 1/2015
“Multimodal Impact Analysis of an Airside Catastrophic Event,” INFORMS 2014, San Francisco CA, 11/2014
“NEXTOR-Berkeley Research Overview,” National Technical University, Singapore, 8/2014
“NEXTOR Introduction,” Civil Aviation University of China, Tianjin, China, 6/2014
“TE at UC Berkeley,” Tsinghua University, Beijing, China, 6/2014
“TE at UC Berkeley,” Southeast University, Nanjing, China, 6/2014

“When the Safety Card is a Joker,” ITS Airport Systems Planning and Design Short Course, Berkeley, CA, 11/2012

“Costing Delay in the National Airspace System, ITS Transportation Science Seminar, Berkeley, CA 10/2010

“Costing Delay in the National Airspace System, University of South Florida, Tampa, FL 4/2010

“Passenger Demand for Air Transportation in a Hub-and-Spoke Network,” Hebrew University, Jerusalem, Israel, 3/2009

“Probabilistic Air Traffic Management,” Boeing Embedded Humans Workshop, Berkeley, CA, 07/2008

“Value of Flight Cancellation and Flight Cancellation Decision Making,” INFORMS 2008 Annual Meeting, Washington DC, 10/2008

“Study on the Total Cost of Delay,” Transportation Research Board 2009 Annual Meetings, Washington, DC, 01/2009

“Deterministic Queuing Analysis to Predict Delay Propagation at Airports,” Transportation Research Board 2009 Annual Meetings, Washington, DC, 01/2009

“Passenger Demand for Air Transportation in a Hub-and-Spoke Network,” Special Seminar, Tel Aviv, Israel, 03/2009

“Size, Strength, and Speed: A Comparison of US and EU Airline Schedules,” INFORMS 2009, San Diego, CA, 11/2009

“Total Delay Impact Study,” NEXTOR Research Symposium, Washington, DC, 01/2010

“Costing Delay in the National Airspace System,” University of South Florida, Department of Civil Engineering, 04/2010

“Costing Delay in the National Airspace System,” NASA Ames Research Symposium, Mountain View, CA, 07/2010

“An Assessment Framework for Collaborative En Route Resource Allocation Strategies,” INFORMS 2010, Austin, TX, 10/2010

“Costing Delay in the National Airspace System,” ITS Transportation Science Seminar, Berkeley, CA, 10/2010

“Costing Delay in the National Airspace System,” 2nd Mexico Conference on Air Transport: Airport infrastructure, regulation and competition, Mexico City, Mexico, 06/2011

“Social Welfare Justification for Market-Based Approaches for Airport Congestion Management,” 2nd Mexico Conference on Air Transport: Airport infrastructure, regulation and competition, Mexico City, Mexico, 06/2011

“Generating Probabilistic Capacity Profiles from Weather Forecasts: A Design-of-Experiments Approach,” USA/Europe Air Traffic Management and Development Seminar, Berlin, Germany, 06/2011

Keynote speech, Air Transport and Operations Symposium, TU Delft, Netherlands, 06/2012

Invited lectures on the costs of flight delay, airline fuel efficiency, and operational errors in air traffic control at Civil Aviation University of China, Tianjin China, 06/2014

Invited lecture on transportation research and teaching at UC Berkeley at Tsinghua University, Beijing China, 06/2014

Invited lecture on transportation research and teaching at UC Berkeley at Southeast University, Nanjing China, 06/2014

Invited presentation on air traffic management at Civil Aviation University of China, Tianjin China, 06/2014

Mark HANSEN

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I. Refereed Publications

A. Journal Articles

1. Hansen, M. and A. Kanafani, "International Hubbing in a Competitive Environment," *Transportation-Planning and Technology*, 1988, Vol. 13, pp. 3-18.
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2. Hansen, M. and A. Kanafani, "Hubbing and Airline Costs," *ASCE Journal of Transportation Engineering*, 1989, Vol. 115, No. 6, pp. 581-590.
3. Hansen, M. "Airline Competition in a Hub-Dominated Environment: An Application of Noncooperative Game Theory," *Transportation Research-B*, 1990, Vol. 24B, No. 1, pp. 27-43.
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8. Youssef, W. and M. Hansen, "Consequences of Strategic Alliances between International Airlines: The Case of Swissair and SAS," *Transportation Research 28A*, Fall 1994, Vol. 5, pp. 415-431.

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10. Hansen, M., C. Porter and A. Gallardo, "The Cost of Light Rail Collision Accidents," *Transportation Research Record*, 1995, Vol. 1503, pp. 137-145.
11. Hansen, M. and T. Weidener, "Multiple Airport Systems in the United States: Current Status and Future Prospects," *Transportation Research Record* 1995, Vol. 1506, pp. 8-17.
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16. Chira-Chavala, T., **B. Coifman, C. Porter,** and M. Hansen, "Light Rail Accident Involvement and Severity, ITS Technologies," *Transportation Research Record*, July 1996, Vol. 1521, pp.147-155.
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18. **Venter, C.** and M. Hansen, "Flexibility and Time Dependence in Activity Scheduling Models," *Transportation Research Record*, 1999, Vol. 1645, pp. 120-126. Derived from ref-proceeding no. 8.
19. Hansen, M., D. Gillen and **R. Djafarian-Tehrani,** "Aviation Infrastructure Performance and Airline Operation Cost: A Statistical Cost Estimation Approach," *Transportation Research E*, 2001, Vol. 37, pp. 1-23.

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30. Hansen, M. and D. Peterman, "Throughput Effects of Time-Based Metering at Los Angeles International Airport," *Transportation Research Record*, January 2004, Vol. 1888, pp. 59-65.

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 34. Hansen, M. and **C. McAndrews**, "Challenges of Measuring the Performance of FAA's Safety Oversight System," *Transportation Research Record*, 2005, 1937, pp. 31-36.
 35. Hansen, M. and **C. Y. Hsiao**, "Air Transportation Network Flows: an Equilibrium Model," *Transportation Research Record*, 2005, Vol. 1915, pp. 12-19.
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