

Jeremy Castaing
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EDUCATION

- 2012 - Present **University of Michigan (Ann Arbor, MI)**
PhD Student, Industrial and Operations Engineering department.
- 2009 – 2011 **Ecole Polytechnique (Paris, France)**
Bachelor Degree granted in September 2011 with major in Applied Mathematics and Computer Science.
- 2006 – 2009 **Lycée Pasteur (Neuilly sur Seine, France)**
Preparatory years for the nation-wide competitive entrance exam to the highly-regarded French “*Grandes Ecoles*” for scientific studies.
- 2003 – 2006 **Lycée Paul Langevin (Suresnes, France)**
Baccalauréat Série S French high school diploma in Mathematics and Physics. Graduated with Very High Honors.

PROFESSIONAL EXPERIENCE

- September 2012 – Present **University of Michigan -- Graduate Student Research Assistant**
Research in airline and satellite scheduling
- September 2011 – December 2011 **Air France (Paris, France) -- Operations Research Consultant**
- Developed an optimization model to optimize pilot schedules
- Implemented an efficient algorithm in Java and Cplex
- Presented recommendations based on analysis
- Summer 2011 **Amak (Paris, France) -- Research Consultant**
- Developed a mathematical model of tourist flow in a self-guided multi-stop walking tour
- Constructed Java code to analyze and visually simulate the model outcome based on variable inputs
- October 2009 - April 2010 **French Air Force (Rochefort, France) -- Senior Officer Cadet**
- Communication and leadership training
- Trained newly arrived army recruits
- Supervised projects including munitions inventory control and class scheduling

PUBLICATIONS AND PRESENTATIONS

Full Articles in Refereed Publications:

J. Castaing, I. Mukherjee, A. Cohn, L. Hurwitz, A. Nguyen, and JJ. Müller. « Reducing Airport Gate Blockage in Passenger Aviation: Models and Analysis ». Submitted to *Computers and Operations Research*, April 2013. Waiting for acceptance.

Non-Refereed Conference Presentations:

J. Castaing, A. Cohn, J. Cutler, and S. Spangelo. « Optimally Scheduling Satellite Communications with Energy and Data Dynamics ». ISERC May 2013, Puerto Rico.

J. Castaing, I. Mukherjee, A. Cohn, L. Hurwitz, A. Nguyen, and JJ. Müller. “Reducing Airport Gate Blockage in Aviation: Models and Analysis”. INFORMS, October 2013, Minneapolis.

J. Castaing, A. Cohn, J. Cutler. « Optimally Scheduling Satellite Communications with Energy and Data Dynamics Under Uncertainty ». INFORMS, October 2013, Minneapolis.

J. Castaing, A. Cohn, B. Denton. “Improving Patient Flow in an Outpatient Infusion Center”. SHS, February 2014, Orlando.

J. Castaing, A. Cohn, J. Cutler. « Scheduling Downloads for Multi-Satellite, Multi Ground Station Missions ». AIAA/USU Conference on Small Satellites, August 2014, Utah State University.

Other Presentations:

J. Castaing, I. Mukherjee, A. Cohn, L. Hurwitz, A. Nguyen, and JJ. Müller. « Reducing Airport Gate Blockage in Passenger Aviation: Models and Analysis ». May 2013 at Southwest Airlines Headquarters, Dallas TX.

AWARDS

2013 Bonder Fellow

Honorable Mention to Frank J. Redd Student Paper Competition, AIAA/USU Conference on Small Satellites (08/2014)