

# SCOTT STRANSKY

STRANSKY@ALUM.MIT.EDU

## EDUCATION

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- Sep 2005 – Jun 2007** Massachusetts Institute of Technology Cambridge, MA
- Master's Degree in Atmospheric Science. Advisor: Prof. John Marshall. Thesis: "Real-time state estimation of laboratory flows"
  - Staff meteorologist for *The Tech*, MIT's student newspaper.
  - Member of the MIT team in the National Collegiate Weather Forecasting Contest (Sep 2003 – Jun 2007). Individually, ranked in the top 15% nationwide each year.
  - Historian and French Horn player in the MIT Wind Ensemble (since Sep 2001), continuing even after graduation
- Sep 2001 – Jun 2005** Massachusetts Institute of Technology Cambridge, MA
- Bachelor of Science Degree in Mathematics with Computer Science
  - Minors in Earth, Atmospheric, and Planetary Science and Music.
  - Winner of Best Design, for "Gizmoball", a Java program created for Laboratory in Software Engineering.
- Aug 1997 – Jun 2001** Norwalk High School Norwalk, CT
- Graduated with a 3.97/4.00 GPA, 6<sup>th</sup> out of 311.

## EXPERIENCE

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- Jul 2007- Present** AIR Worldwide Boston, MA  
*Assistant Vice President, Principal Scientist*
- Leads the teams responsible for cyber risk modeling, supply chain risk modeling, and life & health risk modeling
  - Led the development teams for the Caribbean and Hawaii Tropical Cyclone models and the US and Canada Severe Thunderstorm models; worked on various components of the US Hurricane model and the US Wildfire model
  - Manages a team of over 10 scientists and engineers across multiple offices
  - Presents AIR's models to clients and scientists across North America and Europe
  - Performs on site damage surveys of areas impacted by natural catastrophes
  - Coauthors "AIR Current" articles and blog postings; presents at industry events
- Jan 2006 – Jun 2007** Laboratory of Prof. John Marshall, MIT Cambridge, MA  
*Fluid Mechanics Computer Modeling*
- Modeled a rotating tank in real time using the MIT General Circulation Model (written in FORTRAN). Concurrently, particle tracking on the actual tank, also in real time, to superimpose the sets of vectors
  - Performed laboratory experiments and helped develop a computer infrastructure in C++ to ease data collection, perform data assimilation, utilize shared memory, and send model and tank data across the network
- Jan 05, Jan 06, Jan 07** Introduction to Weather Forecasting, MIT Cambridge, MA  
*Teaching Assistant*
- Led group forecasting discussions, graded assignments, maintained the online course forecast submission website
- Jul 2000 – Aug 2007** Multiple Myeloma Research Foundation Norwalk, CT  
*Part Time Computer Programming, IT, Database Work*
- Created a computer program in Java to help the Foundation manage all of its grant applications and winners
  - Planned the seating arrangements for ten fundraising events (300 – 800 people each) using a database
  - Trained staff members to use the Foundation's database software and solved software and hardware malfunctions
  - Began as a volunteer, but was hired after less than 2 weeks

## COMPUTER SKILLS

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Java (including Swing), C++, FORTRAN, HTML, Matlab, Scheme, Microsoft Office

## INTERESTS AND HOBBIES

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National Parks (have visited 397 of the 417 US National Park units), Film Music (soundtracks), Music Composition

On July 21, 2006, my music (set to a documentary) was featured on CNN Headline News

On March 17, 2007, I conducted the MIT Wind Ensemble's performance of one of my compositions (can be viewed by searching YouTube for my name)

Commissioned by the National Park Travelers Club to compose music for their 2012, 2013, 2014, 2015, and 2016 Convention preview videos (can also be viewed by searching YouTube)

## PUBLICATIONS & PRESENTATIONS

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- Sai Ravela, John Marshall, Chris Hill, Andrew Wong, Scott Stransky, "Tracking rotating fluids in realtime using snapshots," cvpr, pp.1-8, 2008 IEEE Conference on Computer Vision and Pattern Recognition, 2008
- Sai Ravela, John Marshall, Chris Hill, Andrew Wong, Scott Stransky, "A realtime observatory for laboratory simulation of planetary flows," pp.915-925, Experiments in Fluids, vol 48, issue 5, 2010
- Sai Ravela, John Marshall, Chris Hill, Andrew Wong, Scott Stransky, "A Realtime Laboratory Observatory for Data Assimilation Research," EGU 07, Vienna, April 2007
- Tomas Girnius, Tyler Hauteniemi, Scott Stransky, "California Wildfire: How Big Can the Losses Be?," AIR Worldwide, 2008
- Tomas Girnius and Scott Stransky, "Lessons Learned from the November 2008 California Wildfires," Insurance Journal, May 18, 2009
- Tomas Girnius and Scott Stransky, "Modeling Wildfires and the Property Loss They Cause," VI International Conference on Forest Fire Research, Coimbra, Portugal, November 2010
- Scott Stransky and Tomas Girnius, "Modeling wildfire property risk in near real time," International Association of Wildland Fire, Proceedings of 3rd Fire Behavior and Fuels Conference, Spokane, October 2010
- Tim Doggett and Scott Stransky, "Novel Tools for Modeling Tropical Cyclone Risk in the Caribbean and Central America," AIR Worldwide, 2011
- Scott Stransky, "The 20th Anniversary of Hurricane Iniki: Assessing Tropical Cyclone Risk in Hawaii," AIR Worldwide, 2012
- Scott Stransky, Tomas Girnius, and Eric Robinson, "Estimating severe thunderstorm risk in North America", 7th European Conference on Severe Storms, Helsinki, Finland, 2013
- Scott Stransky and Kathryn Fobert, "Capturing Severe Thunderstorm Risk in the United States," AIR Worldwide, 2014
- Scott Stransky, Eric Robinson, and Kathryn Fobert, "Addressing Challenges in Historical Severe Thunderstorm Data: Are You Biased?" AIR Worldwide, 2014
  
- Participant in several AM Best TV interviews, including: <http://www.ambest.com/video/MediaArchive.aspx?lid=5382700427001&vid=5409478831001>
- Author of numerous blogs on cyber risk and other topics: <http://www.air-worldwide.com/Blog/Profiles/Scott-Stransky/>
- Speaker at industry events, including the RAA Catastrophe Modeling conference, Advisen's Cyber Risk Insights conference, and RIMS, International Association of Actuaries, and CAS conferences.