

ANMOL MADAN

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The Media Lab,
Massachusetts Institute of Technology
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RESEARCH INTERESTS Modeling human behavior, evolution of opinions and behaviors using mobile sensors and applied machine learning and data mining, computational social science, socially-aware mobile applications

EDUCATION

- Massachusetts Institute of Technology**, Cambridge MA
- 2010 PhD Candidate, Media Arts and Sciences, MIT Media Lab
Dissertation: Social Sensing to Model the Evolution of Behaviors (in-progress)
Advisor: Dr. Alex (Sandy) Pentland
Readers: Dr. David Lazer and Dr. Tanzeem Choudhury
- 2005 SM, Media Arts and Sciences, MIT Media Lab
Thesis: Thin Slices of Interest: Predicting Social Outcomes using Vocal Tone and Prosody
Advisor: Dr. Alex (Sandy) Pentland
Readers: Dr. Pattie Maes and Dr. Carl Marci, MD.
- 2005, 2008 Sloan Business School (MIT) and Harvard Business School
Coursework in New Enterprise Development, Digital Innovation, Technology Strategy, Managing Innovation & Entrepreneurship and Developmental Entrepreneurship
- Pune University**, India
- 2003 BE, Electronics and Telecommunications Engineering
Class Rank 3/70, Motorola Medal for Academic Excellence, numerous engineering awards

EMPLOYMENT AND ENTREPRENEURIAL ACTIVITIES

- 2007-present **Massachusetts Institute of Technology**, Cambridge MA
Research assistant and undergraduate research supervisor
- 2008-present **SocialSense Labs Inc**, Boston MA
Co-founder and acting CTO
- 2006-07 **Windows Mobile, Microsoft Corp**, Redmond WA
Technical Program Manager, Incubation team

- 2003-06 **Massachusetts Institute of Technology**, Cambridge MA
Research assistant and undergraduate research supervisor
- 2004 **iMetrico LLC**, Boston MA
Co-founder
- 2003 **The Entrepreneurship Cell**, Pune, India
Founding CEO

AWARDS AND FELLOWSHIPS

- 2009 **MIT 100k Elevator Pitch Contest**
1 of 2 finalists out of 140 entries in the Web/IT track (BabbleSort)
- 2008 **MIT 100k Entrepreneurship Competition**
Second place in the Mobile track (SocialSense)
US \$11,500 total award
- 2008 **Venture Capital Investment Competition**
Finalist, only non-MBA from MIT in the Sloan local round
- 2005-06 **Highlands and Islands Enterprises Fellow**, Inverness, Scottish Highlands.
Founding Fellow, one of two chosen every year at MIT
US \$75,000 fellowship
- 2004 **MIT 1k Entrepreneurship Competition**
Winner, Products and Services Track (iMetrico)
US\$ 4000 total award
- 2004 **MIT Enterprise Forum**
Award for Most Visionary Research Demonstration
- 2003 **Pune University, India**
Motorola Medal for Academic Excellence
- 1999-03 **IIT Mumbai and Pune University, India**
Numerous engineering awards for undergraduate projects, student robot competitions and technical papers

PUBLICATIONS

Madan A. and Pentland A., 'Social Sensing to Model the Evolution of Opinions', submitted to IEEE Pervasive, 2009.

Madan A., Waber B., Ding M., and Kominers P., 'Reality Mining and Personal Privacy: Will Privacy Disappear when Social Sensors Learn Our Lives?', proceedings of Engaging Data: International Forum on Management of Personal Electronic Information, 2009.

Dong W., Madan A. and Pentland A., 'Exploiting Spatial-Temporal Patterns for Predictive Speed Dialing', in submission.

Soman V., and Madan A., 'Predicting the Outcome of Job Interviews Based on Vocal Tone and Prosody', submitted to IEEE ICASSP 2010.

Madan A. and Pentland A., 'Modeling Social Diffusion Phenomena Using Reality Mining', proceedings of AAAI Spring Symposium on Human Behavior Modeling 2009, Stanford Univ, CA.

Madan A., and Pentland A., 'Mob.Media: A Mobile Phone Platform for Computational Social Science', proceedings of Conference on Network Science (NetSci) 2007, Norwich UK.

Madan A., and Pentland A., 'VibeFones: Socially aware Mobile Phones', proceedings of International Symposium of Wearable Computing (ISWC) 2006, Switzerland.

Madan A., Caneel R. and Pentland A., 'Voices of Attraction', proceedings of Augmented Cognition, (AugCog) HCI 2005, Las Vegas, NV.

Madan A., Caneel R. and Pentland A., 'GroupMedia: Distributed Multimodal Interfaces', proceedings of Sixth International Conference on MultiModal Interfaces (ICMI) October 2004, Penn State, PA.

Sung M., Gips J., Eagle N., Madan A., Caneel R., Devaul R., Bonsen J. and Pentland A., 'MIT.EDU: M-Learning applications for Classroom Settings', the Journal of Computer Assisted Learning (JCAL), 2004.

PEER-REVIEWED WORKSHOPS

Chronis L., Madan A., Pentland A., 'SocialCircuits: The Art of Using Mobile Phones for Modeling Personal Interactions', peer-reviewed workshop on Multimodal Sensor-Based Systems and Phones for Social Computing, ICMI-MLMI 2009, Boston MA 2009

Madan A., and Pentland A., 'Modeling Social Diffusion Phenomena Using Reality Mining', peer-reviewed workshop on Stochastic Models of Behavior, Neural Information Processing Systems (NIPS) 2008, Whistler Canada.

Madan A., Caneel R. and Pentland A., 'GroupMedia: Wearable Devices to Understand Social Context', peer-reviewed workshop on Context Awareness, jointly held with Mobile Systems, Applications and Services (Mobisys), 2004.

RESEARCH COMMUNITY ACTIVITIES

- 2009 **Co-organizer**, Workshop on Multimodal Sensor-Based Systems and Mobile Phones for Social Computing (MSMSC), jointly held with ICMI-MLMI at Boston, MA
- 2009 **Co-organizer**, Workshop on Social Computing with Mobile Phones and Sensors (SCMPS), jointly held with SocialCom 2009, Vancouver BC, Canada
- 2007 **Student Volunteer Chair**, International Symposium on Wearable Computers (ISWC), Boston MA 2007.

SELECTED INVITED TALKS

- 2009 The Summit Conference on Future Networks Economy, Energy and Health
Sloan Business School, MIT, Cambridge MA

Motorola Research Labs
Schaumburg, IL

Trends in Mobile Internet Devices (UK Trade and Investment)
British Consulate General, Boston MA

Media Lab Sponsor Spring and Fall Meetings
Cambridge MA

Intuit and Bank of America Future of Payment Workshop
Cambridge MA

Workshop on Social Computing with Mobile Phones and Sensors
Vancouver, BC
- 2008 Mass Media Workshop with Time, NewsCorp and Hearst
New York, NY

Media Lab Sponsor Spring and Fall Meetings
Cambridge MA

SELECTED PRESS AND MEDIA QUOTES

- 2008 New York Times: 'You're Leaving a Digital Trail. What About Privacy?'
- MIT TechTalk: 'Is Privacy an Antiquated Concept?'
- Harvard Crimson: Editorial on Data Security
- New York Times: 'You May Soon Know if you're Hogging the Discussion'
- Mass High Tech: 'MIT 100k tops off a bumper crop of regional business plans'

- 2006 BBC National News UK: 'Measuring Tourist Interactions Around Loch Ness'

- 2005 National Public Radio (NPR): 'MIT Device calls Cell Phone Users on Their Conduct'
 National Geographic: 'Jerk-O-Meter measures Phone Rudeness'
 The Chronicles of Higher Education: 'Hey Jerk, I'm talking to you'
 CNN.com Cover: 'Beware of the Jerk-O-Meter', repeated over 300 times in other media
 including BusinessWeek, Washington Times, Wired
 Make Magazine: 'Welcome to the Fab Lab'
 Boston Business Journal: 'iMetrico: \$50k semifinalist'

- 2004 New Scientist: 'Rules of Attraction'

- 2003 Times of India: 'An Anmol contribution to wearable computing'
 Times of India: 'Top Projects in Engineering School'

SELECTED UNDERGRADUATE STUDENTS SUPERVISED

- 2009 Erons Ohienmhen, mobile data post-processing, currently MIT undergrad
 Chris Palmer, Windows Mobile development, currently PM at Microsoft Corp
 Paul Kominers, managing research deployment, current MIT undergrad

- 2008 Nevada Sanchez, iPhone app development, currently MIT undergrad
 Thatcher Clay, iPhone web development, currently at Bridgewater Associates
 Rita Chen, Nokia J2ME development, currently MIT undergrad

- 2006 Chris Moh, mobile linux development, currently at Two Sigma Investments
 Shaun Foley, Zaurus development, currently software consultant
 Armando Valdes, mobile development, currently at Sapient
 Paul Wehner, Nokia py60 development, currently PM at Endeca
 Vikrant Soman, speech feature analysis, currently grad student at UW-Madison