

# SOHAN SAVIO DSOUZA

Boston, MA | +1(857)300-9169 | sohandsouza@acm.org  
www.sohandsouza.info

## SUMMARY

- Research Interests: Crowdsourcing, Disinformation, Social Mobilization, Virality, AI and Society
- 12 years of experience, across industry and academia, with innovative systems and research
- Skilled at designing and developing platforms for online experimentation and crowdsourcing
- Experienced in leading teams, mentoring, teaching, collaborating, and research writing

## EXPERIENCE

### MIT Media Lab, Scalable Cooperation Group

Cambridge, MA, USA

Research Assistant

September 2015 – January 2021

- Studied patterns in human preferences for trade-offs in ethical dilemmas across cultures
- Studied ethical expectations of autonomous vehicles across cultures; created web platform to collect data on how human subjects perceive machine-made moral decisions and failures
- Led a team of students and researchers developing procurement, processing, and interactive visualization tools for data on inter-country media coverage globally over time
- Developed interactive visualization tools for networks of international cooperation, and global moral trade-off preferences for autonomous vehicles
- Designed and implemented social recruitment apps for Media Lab crowdsourcing initiatives

### Masdar Institute

Masdar City, UAE

### Smart Tech for EVs and Automotive Systems Lab, Social Computing and Artificial Intelligence Lab, Interactive Artificial Intelligence Lab

Research Engineer

December 2010 – August 2015

- Developed a mobile application that collects, logs and syncs automobile sensor and engine information, and ran on-road experiments for a study of individual and social models to refine fuel economy predictions
- Developed a web application for conducting behavioural experiments both on the Amazon MTurk platform and in-lab, to study public good incentive and bot learning
- Developed a web application for crowd-sourcing search problems, used it to compete in MyHeartMap Philadelphia and win the US State Department Tag Challenge
- Developed simulation software for studying social searches across physical space
- Refined a decision theoretic model for goal revelation in computer-mediated negotiation
- Served as Teaching Assistant in graduate-level Artificial Intelligence and Algorithms courses

### Zawya, Technology & Research

Dubai, UAE

Operations Analyst

August 2007 – December 2010

- Developed an in-house business intelligence tool to clean, transform, and cache business performance data, and present it to associates in the form of customizable and exportable on-demand charts and reports
- Designed an efficient text-mining algorithm to automatically tag news feeds to mentioned entities, and an interface to allow editors to refine the tagging accuracy as they work
- Reengineered a market data supply chain application for greater robustness and efficiency
- Developed administrative applications, services, and agents, to process multimedia content and financial data along their respective workflows

## Hewitt Associates, Technology Development Centre

Web Applications Developer

Navi Mumbai, India

December 2004 – January 2006

- Designed/developed core modules for a new organization-wide web architecture
- Reengineered a sheet-based procurement cost management system into a unified web app
- Developed our prototype absence management tool and its subsequent adaptations
- Received the Hewitt TDC “Star Award” for “significant contributions” and “value-addition”

## EDUCATION

### Massachusetts Institute of Technology

Master of Science in Media Arts and Sciences

Thesis : Crowdsourcing Moral Psychology

Cambridge, MA, USA

2021

### British University in Dubai (associate of the University of Edinburgh, UK)

Master of Science in Informatics – Knowledge and Data Management

Academics : Distinction, Laboratory Assistant for two courses

Dissertation : Empirical Studies in Computer-Mediated Interest-Based Negotiations

Dubai, UAE

2009

### S.P. Jain Centre of Management

Global Masters in Business Administration – Information Technology Management

2007

Dubai, UAE + Singapore

### Illinois Institute of Technology

Bachelor of Science in Computer Information Systems, minor in Circuits and Systems

Research : Voltage security assessment platform for the Power Lab

Chicago, IL, USA

2004

## RESEARCH PUBLICATIONS

- Awad, E., Dsouza, S. *et al.* (2020) *Universals and variations in moral decisions made in 42 countries by 70,000*. **Proceedings of the National Academy of Sciences**.
- Awad, E., Levine, S., Kleiman-Weiner, M., Dsouza, S. *et al.* (2019) *Drivers are blamed more than their automated cars when both make mistakes*. **Nature Human Behaviour**.
- Awad, E., Dsouza, S. *et al.* (2018) *The Moral Machine experiment*. **Nature**.
- Wilhelm, E., Siegel, J., Mayer, S., Sadamori, L., Dsouza, S. *et al.* (2015) *Cloudthink: a scalable secure platform for mirroring transportation systems in the cloud*. **Transport**.
- Dsouza, S. *et al.* (2013) *Reasoning about goal revelation in human negotiation*. **IEEE Intelligent Systems**.
- Rahwan, I., Dsouza, S. *et al.* (2013) *Global Manhunt Pushes the Limits of Social Mobilization*. **Computer**.
- Rutherford, A., Cebrian, M., Dsouza, S. *et al.* (2013) *Limits of Social Mobilization*. **Proceedings of the National Academy of Sciences**.
- Rutherford, A., Cebrian, M., Rahwan, I., Dsouza, S. *et al.* (2013) *Targeted Social Mobilization in a Global Manhunt*. **PLoS ONE**.

CONFERENCES AND WORKSHOPS: IC2S2 2018+2017+2016, AAI/AIES 2018, MIT RoboCon 2017, MIT CODE 2017+2016, e-Energy 2015+2014, MIT WIDS 2012, NetSci 2012, CogSci 2009

## SKILLS & INTERESTS

*Technologies:* Python, R, JavaScript, Java, C++, Meteor, HTML5/CSS, MTurk, D3.js, SQL, NoSQL

*Languages:* English (fluent, native); Mandarin, Hindi, French, Arabic (basic)

*Interests:* politics, philosophy, theatre, improv, standup, drawing, kayaking