Oshani Seneviratne

PhD Candidate
Decentralized Information Group
CSAIL, MIT

oshani@mit.edu
http://people.csail.mit.edu/oshani
https://github.com/oshanis

EDUCATION

2009 May – Present:

PhD Candidate
MIT, USA
Expected Graduation: June 2014
Supervisor: Tim Berners-Lee
Thesis: "HTTP with Accountability"

2008 June – 2009 Jan:

Web Science Research Exchange Student
University of Southampton, UK
Supervisor: Nigel Shadbolt
Worked on technical frameworks for sharing content on the Web.

2007 Sep – 2009 May:

SM in Computer Science
MIT, USA
Supervisor: Tim Berners-Lee
Thesis: "Policy Aware Content Reuse on the Web"

2003 Jun – 2007 July:

B.Sc. (Hons) in Computer Science and Engineering
University of Moratuwa, Sri Lanka
Thesis: "Lohitha: Blood Cell Recognizer and Analyzer"

WORK EXPERIENCE

2007 Sep – Present:

Research Assistant, Decentralized Information Group, MIT CSAIL
Currently I develop tools and conduct research on privacy, accountability and policies for the Web, and tools to help manage disasters. I have also worked on the implementation and extension of a linked data browser called the Tabulator.

2012 Summer:
2011 Summer:

Technical Lead, MIT AITI in The Philippines
Technical Lead, MIT AITI in Kenya
I was responsible for planning and delivering a two-month long intensive program on mobile application development as part of the MIT Accelerating Information Technology Innovation (AITI). I conducted these programs at Swathmore University, Nairobi, Kenya in 2011 and at UP Diliman, Manila in The Philippines in 2012. I conducted lessons on programming in Python, the Django web framework and the Android platform. I also mentored teams from these universities in creating tech startups that have since been very successful in the respective emerging markets.

2006 Feb – 2006 Jul:

Software Engineering Intern, WSO2 Inc.
I developed the 'StAX/OM parser' to parse Web Services Description Language (WSDL) documents.

TEACHING EXPERIENCE

2011 and 2012 Summer:	MIT Accelerating Information Technology Innovation
2011 Spring:	TA for 6.042-Mathematics for Computer Science
2010 Summer:	Computer Science Instructor, MIT WTP
2010 IAP, 2011 Fall & 2013 Spring:	Linked Data Ventures (guest lectures)

INVITED TALKS

- "Transparent Web Systems" at Amazon PhD Symposium, November 2013
- "Decentralized Provenance Management for User Managed Access" for the IETF OAuth 2.0 working group, November 2013
- "HTTPA" at Emerging Information and Technology Association – Young Investigator Conference, August 2013
- Keynote Speech at "Computer Science for All Girls", Auburn University, Alabama, July 2013
- "Linked Data Connections" at MIT App Inventor Summit, July 2013
- "Android Application Development" at Google DevFest, Manila, Philippines, Aug 2012
- "Accountable Web Protocols" at Library of Congress, May 2012
- "Addressing and Identifying Privacy Leakage from Query Logs: An Accountability Approach" at Microsoft Research, June 2011
- "Detecting Creative Commons Attribution License Violations on Flickr Images on the World Wide Web" at the Creative Commons Summit, December 2008

AWARDS

- Best Computing and Most Technically Interesting Project Award at the Big Travel Data Hackathon 2013
- Yahoo! Key Scientific Challenges Winner 2011
- Google Travel Awards for World Wide Web Conferences in 2009, 2011 and 2012
- Grace Hopper Scholarship Award Winner in 2005 and 2011
- Best Undergraduate Thesis Project Award in Computer Science in 2007

SKILLS

- Proficient in Python, Java, Javascript, and R
- Proficient in frameworks such as Django, node.js, backbone.js, Android and MIT App Inventor

PROFESSIONAL SERVICE

Research

2013:	Reviewer for World Wide Web Conference 2014
	Reviewer for International Semantic Web Conference 2013
2012 – Present:	Reviewer for computingreviews.com
2012:	Reviewer for World Wide Web Conference 2013
2011 Nov – 2012 Oct:	Publicity Chair, International Semantic Web Conference 2012
2009:	External Reviewer for IEEE Information Systems
2009 – 2010:	Invited Expert, Social Web Incubator Group, W3C
2006 – 2008	Committer for Apache Woden, Axis2 and Forest projects

Community

| 2011 – Present: | President, Sri Lankan Student Association at MIT |
| 2010 Fall – 2011 Spring: | Student Representative at the MIT Online Education Steering Group |

2009 – 2012:	Event Commissioner for CSAIL Olympics
2010 – 2011:	President, Graduate Women in Course 6
	Board Member, GWAMIT (Graduate Women at MIT)
	Leader at the MIT Women's Initiative
2009 – 2010:	Treasurer, CSAIL Student Committee
2009 – 2010:	Program Chair and Webmaster of CSAIL Student Workshop

PUBLICATIONS LIST

Peer Reviewed Conference Papers
- Who? What? When? Where and Why?: Towards Transparent Web Information Systems. *Oshani Seneviratne* (submitted to the World Wide Web Conference 2014)
- Intelligent Exploration of the Linked Data Cloud. *Evan Patton, Oshani Seneviratne, Fuming Shih, Daniela Miao, and Lalana Kagal* (submitted to the International Conference on Intelligent User Interfaces 2014)
- Augmenting the Web with Accountability; *Oshani Seneviratne*; World Wide Web Conference 2012
- Usage Restriction Management for Accountable Data Transfer on the Web; *Oshani Seneviratne, and Lalana Kagal*; IEEE International Symposium on Policies for Distributed Systems and Networks 2011
- Remix Culture on the Web: A Survey of Content Reuse on Different User Generated Content Websites; *Oshani Seneviratne, and Andre Monroy-Hernendez*; Web Science Conference 2010
- Policy Aware Geospatial Data, *Puneet Kishor, Oshani Seneviratne and Noah Giansiracusa*; ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems 2009
- Policy Aware Content Reuse on the Web; *Oshani Seneviratne, Lalana Kagal, and Tim Berners-Lee*; ISWC2009 – International Semantic Web Conference

Peer Reviewed Workshop Papers
- Democratizing Smart Phone Applications; *Fuming Shih, Oshani Seneviratne, Daniela Miao, Lalana Kagal, Evan Patton, Carlos Castillo and Patrick Meier*; Semantic Cities Workshop at IJACAI 2013
- Policy Aware Social Miner; *Sharon Paradesi, Oshani Seneviratne and Lalana Kagal*; Workshop on Semantic Computing and Security 2012
- HTTPA: Accountable HTTP; *Oshani Seneviratne and Lalana Kagal*; IAB/W3C Internet Privacy Workshop, 2010
- Decentralization: The Future of Online Social Networking; (author names in alphabetical order) *Ching-man AuYeung, Tim Berners-Lee, Ilaria Liccardi, Kanghao Lu, Oshani Seneviratne*; W3C Mobile Social Networking Workshop
- The Point of View Axis: Varying the Levels of Explanation Within a Generic RDF Data Browsing Environment; *Oshani Seneviratne, Tim Berners-Lee*; CSAIL Student Workshop 2008

Technical Reports
- WebBox: Supporting Decentralized and Privacy-respecting Micro-sharing with Existing Web Standards; *Daniel Alexander Smith, Max Van Kleek, Oshani Seneviratne, m.c. schraefel, Alexandre Bertails, Tim Berners-Lee ,Wendy Hall, Nigel Shadbolt*; University of Southamption Technical Report 2012
- On Integration Issues of Site-specific APIs into the Web of Data; (author names in alphabetical order) *Tim Berners-Lee, Richard Cyganiak, Michael Hausenblas, Joe Presbrey, Oshani Seneviratne, Oana-Elena Ureche*; National University of Ireland - DERI Technical Report 2009

REFERENCES

Tim Bereners-Lee
Professor, MIT & Director, W3C
timbl@w3.org

Jim Hendler
Professor, RPI
hendler@cs.rpi.edu

Lalana Kagal
Principal Research Scientist
MIT CSAIL