

Oshani Seneviratne

PhD Candidate
Decentralized Information Group
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EDUCATION

- 2009 May – Present: **PhD Candidate in Computer Science**
MIT, USA
Expected Graduation: Summer 2014
Supervisor: Tim Berners-Lee
Thesis: “Accountable Systems: Enabling and Determining Appropriate Use of Data”
- 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: **Masters 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 & 2011 Summer: **Adjunct Professor / Technical Lead**
MIT AITI in The Philippines and 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

I developed the ‘StAX/OM parser’ to parse Web Services Description Language (WSDL) documents.

TEACHING EXPERIENCE

2011 and 2012 Summer:
Innovation

MIT Accelerating Information Technology

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

- “Healthcare Privacy and Intellectual Property Rights Protection with Information Accountability”, at Data Privacy Lab, Harvard University, May 2014
- “Who? What? When? Where and Why?: Towards Transparent Healthcare Applications” at 2014 EITA Conference on New Media and Biomedical Research at MIT, August 2014
- “Accountable Systems” at TWed RPI, April 2014
- “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
- “Policy Aware Content Reuse” 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 Communications App at the AT&T Mobile App Hackathon – Public Safety and Emergency Preparedness, May 2014
- 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

PROFESSIONAL SERVICE

Research

2014:	Reviewer for International Semantic Web Conference 2014
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 – 2014:	President, Sri Lankan Student Association at MIT
2010 Fall – 2011 Spring:	Student Rep 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

Peer Reviewed Conference Papers

- Molding the Web of Data: A Framework for Mobile Linked Data, *Oshani Seneviratne, Evan Patton, Daniela Miao, Fuming Shih, Weihua Li, Lalana Kagal and Carlos Castillo* (In submission at International Semantic Web Conference 2014)
- Enabling Privacy Through Transparency. *Oshani Seneviratne, and Lalana Kagal* (Privacy Security and Trust 2014)
- Intelligent Exploration of the Linked Data Cloud. *Evan Patton, Oshani Seneviratne, Fuming Shih, Daniela Miao, and Lalana Kagal* (In submission to SIGMOD 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-Hernandez*; 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 Southampton 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 Berners-Lee

Professor, MIT
 Director, W3C
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Hal Abelson

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Lalana Kagal

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Cynthia Skier

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ckier@mit.edu