

Sanjaya Wijeratne | Resume

Ph.D. Student in Computer Science – Kno.e.sis Center – Wright State University
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Research Interests

Emoji Understanding, Emoji Sense Disambiguation, Text Mining & NLP, Social Computing

Education

Wright State University <i>Ph.D. in Computer Science, GPA – 3.93/4.0</i>	Dayton, Ohio <i>September, 2011 – Present</i>
University of Moratuwa <i>B.Sc. in Information Technology, Top of the Class with First Class Honours</i>	Katubedda, Sri Lanka <i>2005 – 2009</i>

Research and Work Experience

Kno.e.sis Center – Wright State University <i>Researcher/Graduate Research Assistant</i>	Dayton, Ohio <i>September, 2011 – Present</i>
Institute for Infocomm Research (I2R) – A*STAR <i>Research Intern</i>	Fusionopolis, Singapore <i>January, 2016 – April, 2016</i>
Insight Center for Data Analytics (Formerly DERI) – NUIG <i>Summer Research Intern</i>	Galway, Ireland <i>May, 2014 – August, 2014</i>
CodeGen International (Pvt) Ltd. <i>Software Engineer</i>	Colombo, Sri Lanka <i>November, 2009 – July, 2011</i>
Virtusa Corporation (Pvt) Ltd. <i>Trainee Software Engineer</i>	Colombo, Sri Lanka <i>October, 2007 – April, 2008</i>

Awards and Accomplishments

Graduate Council Fellowship Award <i>College of Engineering and Computer Science, Wright State University</i>	2011 – 2013 <i>Dayton, Ohio</i>
Gold Medal for the Best Overall GPA and Top of the Class <i>Faculty of Information Technology, University of Moratuwa</i>	June, 2010 <i>Katubedda, Sri Lanka</i>

Invited Talks

- [1] **Sanjaya Wijeratne**, “Analyzing the Social Media Footprint of Street Gangs”, SRV 2000 – Engaged Citizenship class at Wright State University, Dayton, OH, USA. March, 2018.
- [2] **Sanjaya Wijeratne**, “Finding Street Gang Members on Twitter”, Big Data Surveillance Analytics Mini Conference at Wright State University, Dayton, OH, USA. July, 2016.

Selected Media Coverage

- [1] **EmojiNet and Emoji Understanding**: [Wright State News] | [The Daily Advocate] | [Sidney Daily News] | [Emoji Foundation] | [Kaggle] | [Psychology Today] | [dlvr.it Blog]
- [2] **Twitter Gang Member Profile Identification**: [IEEE Intelligent Systems] | [Motherboard] | [WSU]

Selected Publications

- [1] **Sanjaya Wijeratne**, Amit Sheth, Shreyansh Bhatt, Lakshika Balasuriya, Hussein Al-Olimat, Manas Gaur, Amir Hossein Yazdavar, Krishnaprasad Thirunarayan. Feature Engineering for Twitter-based Applications, Chapman and Hall/CRC Data Mining and Knowledge Discovery Series, 2017.
- [2] **Sanjaya Wijeratne**, Lakshika Balasuriya, Amit Sheth, Derek Doran. EmojiNet: An Open Service and API for Emoji Sense Discovery. ICWSM, 2017.
- [3] **Sanjaya Wijeratne**, Lakshika Balasuriya, Amit Sheth, Derek Doran. A Semantics-Based Measure of Emoji Similarity. Web Intelligence, 2017.
- [4] Amit Sheth, Sujan Perera, **Sanjaya Wijeratne**, Krishnaprasad Thirunarayan. Knowledge will Propel Machine Understanding of Content: Extrapolating from Current Examples. Web Intelligence, 2017.
- [5] **Sanjaya Wijeratne**, Lakshika Balasuriya, Amit Sheth, Derek Doran, EmojiNet: Building a Machine Readable Sense Inventory for Emoji. SocInfo, 2016.
- [6] **Sanjaya Wijeratne**, Lakshika Balasuriya, Derek Doran, Amit Sheth, Word Embeddings to Enhance Twitter Gang Member Profile Identification. SML Workshop at IJCAI, 2016.
- [7] Lakshika Balasuriya, **Sanjaya Wijeratne**, Derek Doran, Amit Sheth, Finding Street Gang Members on Twitter. IEEE/ACM ASONAM, 2016.
- [8] Lakshika Balasuriya, **Sanjaya Wijeratne**, Derek Doran, Amit Sheth, Signals Revealing Street Gang Members on Twitter. ChASM Workshop at SocInfo, 2016.
- [9] Raminta Daniulaityte, Ramzi W. Nahhas, **Sanjaya Wijeratne**, Robert G. Carlson, Francois R. Lamy, Silvia S. Martins, Edward W. Boyer, G. Alan Smith, Amit Sheth, "Time for dabs": Analyzing Twitter data on marijuana concentrates across the U.S., Drug and Alcohol Dependence October 2015
- [10] **Sanjaya Wijeratne**, Derek Doran, Amit Sheth and Jack L. Dustin. Analyzing the Social Media Footprint of Street Gangs. IEEE ISI, 2015.
- [11] **Sanjaya Wijeratne**, Bahareh R. Heravi, A Keyword Sense Disambiguation Based Approach for Noise Filtering in Twitter. Insight Student Conference, 2014.
- [12] Kalpa Gunaratna, Krishnaprasad Thirunarayan, Prateek Jain, Amit Sheth, **Sanjaya Wijeratne**, A Statistical and Schema Independent Approach for Identifying Equivalent Properties on Linked Data, ACM iSemantics, 2013.

Selected Professional Activities and Services

Co-Editor – Special Issue on Emoji Understanding for ACM Transactions in Social Computing

Co-Organizer – Emoji2018 Workshop at ICWSM 2018

Program Committee – WWW Demo Track (2018), ICWSM (2018), SemEval@NAACL (2018), CENTRIC (2018, 2017), HUSO (2018), SML@IJCAI (2017), EB-ASONAM (2017)

Grant Writing

- **Project Safe Neighborhood**: Westwood Partnership to Prevent Juvenile Repeat Offenders (State funded, 2 Years) – **Status - Awarded, \$~500K**
- **eDrugTrends**: Trending: Social media analysis to monitor cannabis and synthetic cannabinoid use (NIH funded R01, 3 Years) – **Status - Awarded, \$~1.5M**

Computer Skills

- Programming Languages – *Java*
- Scripting Languages – *PHP, JSP, XML, JavaScript*
- Semantic Web – *RDF/RDFS, OWL, SPARQL*
- Databases – *MySQL/Oracle, Cassandra (Basics)*
- Cloud Computing – *Hadoop/MapReduce (Basics), Storm (Basics)*

References

Available upon request.