

## J. Dinal Herath

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CONTACT INFORMATION	Full Name: Jerome Dinal Herath Muthukumaranaage email: jherath1 AT binghamton DOT edu <a href="http://dinalherath.com">dinalherath.com</a>
EDUCATION	<b>State University of New York - Binghamton</b> , NY, USA Ph.D., Computer Science, August 2017 - Present (GPA: 3.93/4.00) <b>University of Colombo</b> , Sri Lanka B.S., Computational Physics (Major), July 2017 (GPA: 3.66/4.00) <b>Chartered Institute of Marketing(CIM)</b> , United Kingdom Professional Postgraduate Diploma in Marketing, May 2015 <b>St. Joseph's College</b> , Colombo, Sri Lanka Primary education, Ordinary Levels(O/Ls), Advance Levels(A/Ls), 2011
RESEARCH INTERESTS	Real-Time Machine Learning, Adversarial Machine Learning, Privacy and Anomaly Detection
PUBLICATIONS	<ol style="list-style-type: none"><li>1. "RAMP: Real-Time Anomaly Detection in Scientific Workflows". By <b>J. Dinal Herath</b>, Changxin Bai, Guanhua Yan, Ping Yang, Shiyong Lu. [<b>Submitted &amp; Under Review</b>]</li><li>2. "SciBlock: A Blockchain-Based Tamper-Proof Non-Repudiable Storage for Scientific Workflow Provenance". By Dinuni Fernando, Siddharth Kulshrestha, <b>J. Dinal Herath</b>, Nitin Mahadik, Yanzhe Ma, Changxin Bai, Ping Yang, Guanhua Yan, Shiyong Lu. [<b>Submitted &amp; Under Review</b>]</li><li>3. "DeepChannel: Wireless Channel Quality Prediction using Deep Learning". By Adita Kulkarni, Anand Seetharam, Arti Ramesh, <b>J. Dinal Herath</b>. [<b>Submitted &amp; Under Review</b>]</li><li>4. "A Deep Learning Model for Wireless Channel Quality Prediction". By <b>J. Dinal Herath</b>, Anand Seetharam, Arti Ramesh. In: IEEE International Conference on Communications (ICC-2019).</li><li>5. "A Markovian Model for Analyzing Opportunistic Request Routing in Wireless Cache Networks". By <b>J. Dinal Herath</b> and Anand Seetharam. In: IEEE Transactions in Vehicular Technology (TVT-2018).</li><li>6. "Analyzing Opportunistic Request Routing in Wireless Cache Networks". By <b>J. Dinal Herath</b> and Anand Seetharam. In: IEEE International Conference on Communications (ICC-2018).</li><li>7. "Simulation of Symmetric and Asymmetric movement gaits for Lateral Undulation in Serial Snake Robots". By <b>J. Dinal Herath</b> and K. Jayananda. In: 2017 International Conference on Computational Modeling &amp; Simulation (ICCMS-2017).</li><li>8. "Comparison of Serial and Parallel Snake Robots for Lateral Undulation Motion Using Gazebo". By <b>J. Dinal Herath</b> and K. Jayananda. In: 2016 IEEE International Conference on Information and Automation for Sustainability (ICIAfS-2016).</li></ol>

## AWARDS AND SCHOLARSHIPS

- Secure and Private AI scholarship Challenge Recipient by Udacity and Facebook. (2019)
- Student travel grant to attend ACM/IEEE Symposium on Architectures for Networking and Communications (ANCS-2018).
- NSF Student travel grant to attend IEEE International Conference on Communications (ICC-2018).
- Winner of Dr. Sarath Gunapala Gold Medal for Computational Physics, University of Colombo, Sri Lanka (2017).
- Recipient of MIND(Munasinghe Institute for Development) Scholarship, Sri Lanka (2015-2016).

## EXPERIENCE

- Graduate Teaching Assistant, Watson School of Engineering & Applied Science, SUNY Binghamton. (Fall-2018, Spring-2019)
- Graduate Research Assistant, Watson School of Engineering & Applied Science, SUNY Binghamton.(Fall-2017, Spring-2018, Summer-2018, Summer-2019)
- Temporary Lecturer, Department of Physics, University of Colombo, Sri Lanka.(2017)

## SKILLS

### Programming Skills:

- C, Java, Python, Tensorflow, PyTorch, Solidity, MATLAB,

### Modeling Skills & Platforms:

- Markovian Models, Deep Learning, Ethereum-Blockchain, Mathematical Modeling