

## Putting Machine Learning to Work for Digital Forensics

**Jeff LeJeune and Bazyli Debowski | Magnet Forensics**

Digital devices and connectivity are creating a data tsunami for investigators in the law enforcement and corporate communities. Not only has the popularity of chat and email applications resulted in a massive spike of text-based conversations; but an increasing number of devices (smartphones, digital cameras, other IoT devices, etc.) also facilitate the easy capture of photos and videos. As a result, the number of pictures and messages that may appear in a case has grown exponentially, making it difficult for forensic examiners, investigators and analysts to keep up. The manual analysis of the evidence for context and relevance, combined with report building, can add significant time to an investigation. Magnet.AI allows an examiner or investigator to better prioritize their time in an investigation, and find potentially relevant evidence faster than they could through manual review.



As Vice President of Engineering, **Jeff LeJeune** is responsible for all engineering and product development activities at Magnet Forensics. Jeff has over 20 years of software industry experience starting as a software developer before moving into leadership roles. Most recently Jeff was Director of Engineering at Avast Software and prior to that he held many senior leadership positions in nearly 12 years at BlackBerry, formerly Research in Motion (RIM), Limited. Jeff holds a Bachelor of Mathematics in Computer Science degree from the University of Waterloo.



**Bazyli Debowski** has been working at Magnet Forensics as a Software Developer on the Data Analytics team for 2 years. His responsibilities on the team include researching, developing, and deploying Machine Learning models and systems. Bazyli completed a M.Eng. degree in Engineering Systems and Computing at University of Guelph in 2016. During his degree he studied Data Mining, Wireless Sensor Networks, and Reinforcement Learning. Bazyli has experience with various Machine Learning techniques including Supervised, Unsupervised, Reinforcement, Deep, and Transfer Learning.

Contact at the MS2Discovery Research Institute: Manuele Santoprete (Host of the speaker, Multidisciplinary Talk)

**Refreshments will be provided**

**Friday, March 15, 2019**

**2 p.m. | Location: LH 3058 (Lazaridis Hall)**

**The MS2Discovery Seminar Series: [www.ms2discovery.wlu.ca/seminar](http://www.ms2discovery.wlu.ca/seminar)**  
Wilfrid Laurier University, 75 University Avenue West, Waterloo

This event is hosted by the MS2Discovery Interdisciplinary Research Institute  
**<http://www.ms2discovery.wlu.ca> | Waterloo**

