

# Emergency Data Science: Taking Advantage of the Data Flood

December 4 and 5, 2018 | York University | Toronto

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## \_WORKSHOP DAY 1

Day 1 will begin with a session on user-centred development of software solutions that will set the stage for the workshop, followed by a presentation on data ethics in the humanitarian domain. Representatives from five humanitarian organizations will present the Core Challenges that will be tackled on Day 2 of the workshop. Three humanitarian specialists will present their organizations' solutions to complex data science problems in order to share lessons learned for future work. **Open to all invited participants and observers.**

Unless otherwise specified, all events take place at the Second Floor Convention Space, New Student Centre ([see details on this page](#)).

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| 8:30a – 9:00a   | <i>Registration and light breakfast</i>   |
| 9:00a – 9:10a   | Opening remarks – James Orbinski, Director of the Dahdaleh Institute for Global Health Research                           |
| 9:10a – 9:30a   | Workshop Format: What to Expect & What We're Aiming For – Syed Imran Ali & Tino Kreutzer                                  |
| 9:30a – 10:10a  | Making it Work: User-Centered Design to Understand Complex User Needs and Build Realistic Tools for Humanitarian Response |
| 10:10a – 10:30a | <i>Coffee Break</i>   |
| 10:30a – 11:10a | First Do No Harm: Ethics, Privacy, Security, and Governance of Data in the Humanitarian Domain                            |
| 11:10a – 11:30a | Challenge 1: Big Data and Cash – William Martin, Catholic Relief Services   |
| 11:30a – 11:50a | Solution I: IFRC Go Platform – Dan Joseph, American Red Cross   |
| 12:00p – 1:00p  | <i>Lunch</i>  |
| 1:00p – 1:20p   | Challenge 2: Global Nutrition Dashboard – Paula Tenaglia, Action Contre la Faim   |
| 1:20p – 1:40p   | Solution II: IRC Emergency Assessment Tool – Bobi Morris and Elena Chopyak, International Rescue Committee                |
| 1:40p – 2:00p   | Challenge 3: Safe Water Optimization Tool – Syed Imran Ali, York University   |
| 2:00p – 2:20p   | <i>Coffee Break</i>   |
| 2:20p – 2:40p   | Solution III: mVAM—Mobile Technology for Household Food Security Data Collection – Kusum Hachhathu, World Food Programme  |
| 2:40p – 3:10p   | Challenge 4: WASH Data Portal – Ben Harvey, UNHCR and Maxym Malynowsky, REACH South Sudan                                 |
| 3:10p – 3:30p   | <i>Coffee Break</i>   |

3:30p – 3:50p	Challenge 5: Natural Language Processing for Remote Needs Assessments – Bobi Morris, International Rescue Committee
3:50p – 4:10p	What to Expect for Day 2; Participants assigned to working groups
5:00p – 6:00p	<i>Cocktail reception</i>
6:00p – 8:00p	Conference Dinner at <a href="#"><i>Schulich Executive Dining Hall</i></a>

## **\_WORKSHOP DAY 2**

Selected individuals will form working groups around each of the Challenges. Groups will collaboratively generate high-level concepts and business plans for solutions (~4 hours). Strengths, weaknesses, and next steps for each solution will be discussed in the plenary group. **Invited participants only.**

8:30a – 9:00a	<i>Light breakfast</i>
9:00a – 9:15a	Instructions for Working Groups and goals for Day 2 – Syed Imran Ali & Tino Kreutzer
9:15a – 12:00p	Participants split into five Working Groups (pre-assigned) to begin tackling respective challenges
10:00a	Coffee and refreshments available (groups can take a break as they like)
12:00p – 1:00p	<i>Lunch</i>
1:00p – 2:30p	Working Groups, continued
2:30p – 2:45p	<i>Coffee Break</i>
2:45p – 4:00p	Working Groups Plenary Presentations (5 x 15 min each)
4:00p – 4:15p	Next Steps – Syed Imran Ali and Tino Kreutzer
4:15p – 4:30p	Closing Remarks – Dr. James Orbinski, DIGHR Director

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