

Emergency Data Science: Taking Advantage of the Data Flood

December 4 and 5, 2018 | York University | Toronto

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 Challenges that will be tackled on Day 2. Three humanitarian specialists will present their organization's solutions to complex data-related challenges in order to share lessons learned for future work. **Open to all invited participants and observers.**

All events take place at the Second Floor Convention Space, New Student Centre, unless otherwise specified. Location information is available at emergencydatascience.org/directions.

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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 |
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| 12:00p – 1:00p | <i>Lunch</i> |
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| 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> |

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| 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 Schulich Executive Dining Hall |

WORKSHOP DAY 2

Participants will meet in their working group. Each group will collaboratively tackle one challenge and generate high-level concepts (~4 hours). Strengths, weaknesses, and next steps for each solution will be discussed in the plenary group. **Invited participants only.**

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| 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 tackle 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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