### First Annual Student Symposium

Dahdaleh Institute for Global Health Research

Wednesday April 17<sup>th</sup>, 2019 Dahdaleh Institute for Global Health Research Offices, York University

# Mikaela Maquiling

Events & Communications Assistant

#### Key Tasks

- Coordinate project milestones
- Organize & lead event volunteers
- Attendee interfacing
- Event set-up & teardown
- Develop event logistics & project management process documents for future events
- Develop and sketch visual language of the Dahdaleh Institute
- Photograph headshots of Dahdaleh Institute researchers, staff and students and use Photoshop to prepare for website





Foresighting

**Researchers** 



Byomkesh Talukder

Research Fellow, Planetary Health

Headshots



Carol Devine Community Scholar, Health, Environment & Climate Change

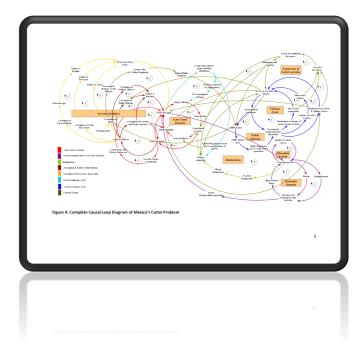
## Shubhdeep Nagi

Communications Assistant

Key Tasks

- Assist in preparation for Health Emergency Data Science International Workshop
- Use Airtable to develop a comprehensive list of contacts in the world of global health research
- Research strategies to create complex causal loop maps for Planetary Health projects

#### Causal Loop Map example



## Eileen Mae Santiago

Graphic Communications Assistant

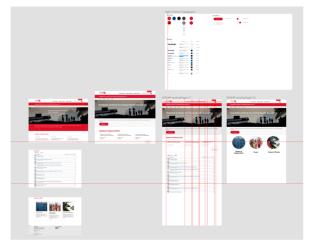
#### Key Tasks

- Create a travel guide document for travelers visiting our office
- Graphically design poster presentation to communicate the research behind Safe Water Optimization Tool
- Work in HTML and CSS & designed mockups to support website re-design

#### **Research Summary**

New Evidence Chlorination In	Humanitaria		Médecins Bans Frontières, Amsterdam, The Netherlands & Dahdaleh Institute of Global Health Research, York University, Toronto, Canada
A Problem	Solution	CHLORINATION	Guidance Note for Field Workers
Chlorination is the most	LOCAL SITE CONDITIONS RECOMMENDATION		Responses -
widely used method for water	Temperature Conditions*	FRC at Tapatand Length of Protection	Using these new
treatment in emergencies.	Hot (+30°C) Peor	1.1 - 1.3 mpl. 12 hours	quidelines entails
Current guidance states:	Hot (+30°C) Good Moderate (20-30°C) Poor	0.8 - 1.3 mpt. 24 hours 0.6 - 0.8 mpt. 24 hours	no additional work
	Moderate (20-30°C) Poor Moderate (20-30°C) Good	0.6 - 0.8 mpl, 24 hours 0.4 - 0.5 mpl, 24 hours	for field teams Scan here for lin
Free residual chlorine (FRC) at points of distribution: 0.2 - 0.5 mg/L under normal conditions 0.5 - 1.0 mg/L during outbreaks or when pH or turbidity are elevated	How to Use: Look up the local temperature and WASH conditions of your site in the left two columns.		
	Follow the row to th	e right to see how	Next: Safe Water
However, these guidelines are <b>not</b> <b>based on any field evidence</b> from emergency settings and often fail to ensure water safety.	much free residual of should deliver at the distribution.	chlorine (FRC) you	What would be ideal is to have a unique water treatment guideline for every site. We can do this now:
1	Implement this FRC		<u> </u>
🔂 Response	The recommended		×
MSF and partners carried engineering research in refugee camps in South Sudan, Jordan, Rwanda, and Tanzania to solve this problem.	provide adequate protection (0.2 mg/L) at the point of consumption in peoples' shelters for the maximum duration given in the rightmost column.		
	HH Water Safety effectiveness of existing guidelines	15-50%	
	HH Water Safety effectiveness of New Guidelines	> 70-	For more info, you can reach me at
March 1 The American Street Street			Shrunzan OBerlecky 🖤 🔤 NORK

#### Website Mockups



### Ameen Al-Gailani

Special Projects Assistant, Backend

Key Tasks

• Assess the technical performance of different Natural Language Processing (NLP) techniques for transcribing and translating qualitative survey responses

### Model of NLP Use in Humanitarian Setting

Understanding affected populations with NLP



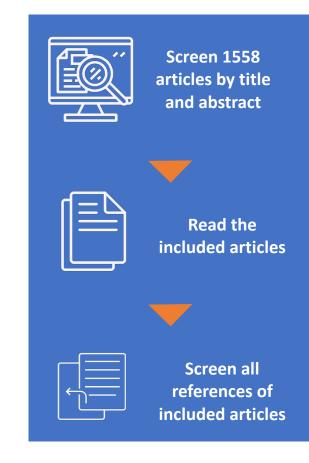
Quantitative & Qualitative Population surveys, key informant interviews, focus group discussions, qualitative interviews, feedback hotlines, etc.

### Sayo Falade & Tanya Narang

Global Health & Humanitarianism Research Assistants Literature Review Process

#### Key Tasks

- Conducted Systematic Literature Review to support Chemical Water Quality (CWQ) & Malnourished Child Health project
- Screened 1558 articles
- Took notes & wrote summary of Expert Panel workshop on CWQ
- Conducted scoping review of grey and published literature, including knowledge synthesis and gap analysis, to support the development of a research programme on health and humanitarian response



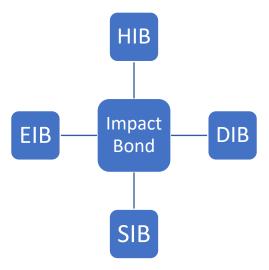
### Dolev Yissar & Bryan Yau

Global Health Foresighting Research Assistants

Key Tasks

- Research blended finance mechanisms to support Alternative Finance Mechanisms in Global Health project
- Document case studies of Impact Bonds to assess their impact and viability





Clockwise: Humanitarian Impact Bonds (IB), Developmental IB, Social IB, Environmental IB

### Fatima Sayedi

Planetary Health Assistant

Key Tasks

- Conduct research on health impacts of climate change on smallholder farmers
- Assess regional differences in health impact

Summary of Major Findings

- Major economical impacts on crop yield and livestock productivity
- Ecosystem degradation and loss → urbanization
- Increase frequency and intensity, reduce predictability, and change spatial distribution of extreme climatic hazards
- Direct and indirectly affects mental, social, and physical health