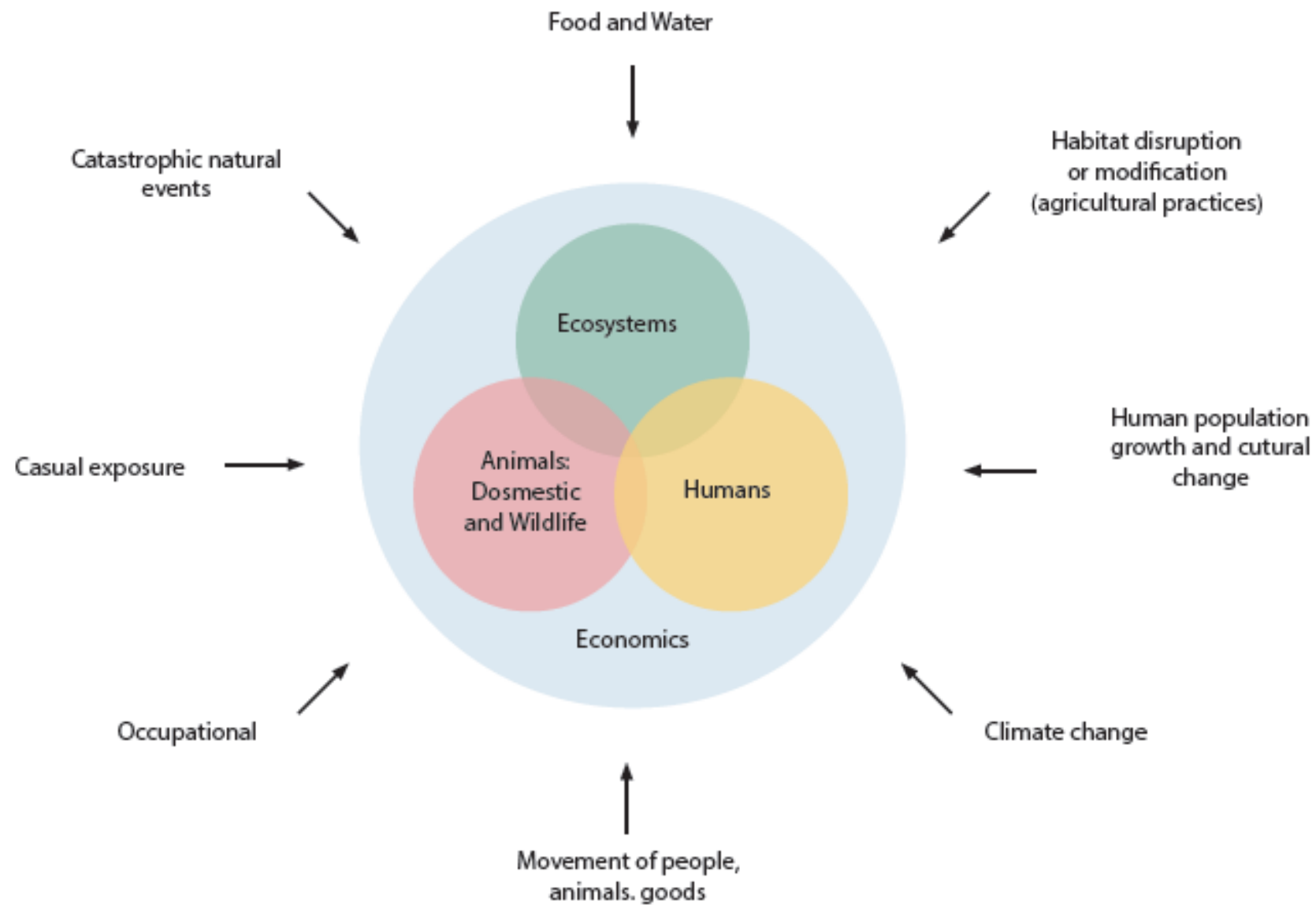


# MSU's Canadian Studies Center One Health Initiative: An Education and Collaboration Model

Huiyun Wu

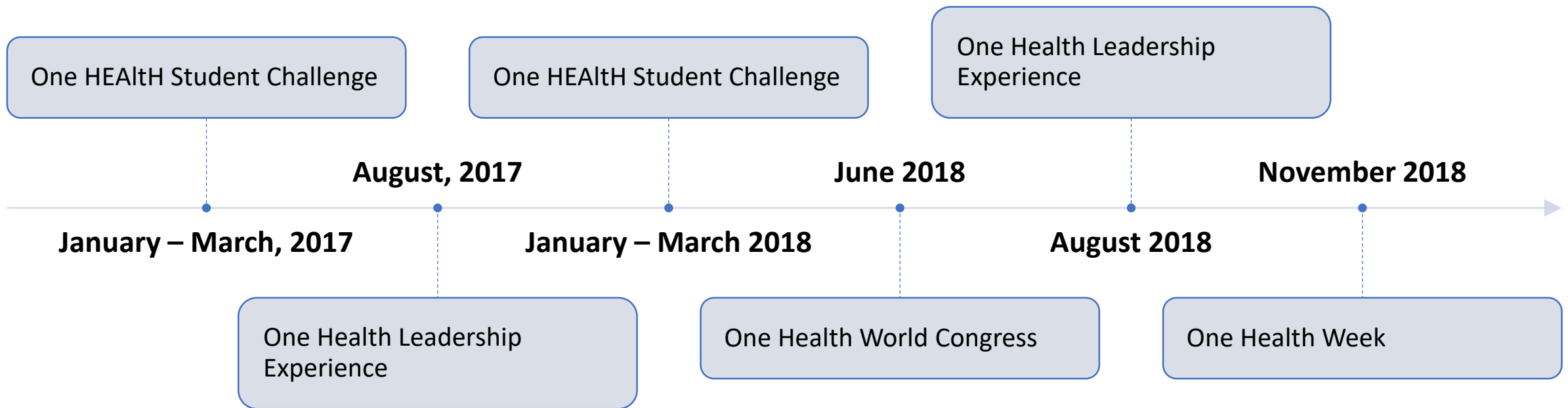




## One Health Framework

Communication and collaboration across multiple disciplines to effectively address health issues that now quickly escalate to a global scale

# One Health Networking Events Timeline



# One HEALtH Student Challenge

- Across border partnership between universities in Canada and MSU
- Wide disciplinary spectrum
- Problem solving, network building
- Human
- Environment
- Animal



**HEALtH Challenge**

Human, Environment, Animal ties to Health





# Webinars



**challenge**  
al ties to Health



# Video meetings



**Challenge**  
Animal ties to Health



**Indigenous  
Communities,  
Canada**

Water contamination  
during distribution,  
and plastic waste

**Nouakchott, Mauritania**

Desertification and advancing sand  
dunes and saltwater intrusion, and  
population booms

**Rajasthan, India**

Drought, desertification, and  
poor resource distribution

**Kathmandu, Nepal**

Water pollution from  
industrial, domestic,  
sewage, arsenic;  
waterborne diseases

**Indore, India**

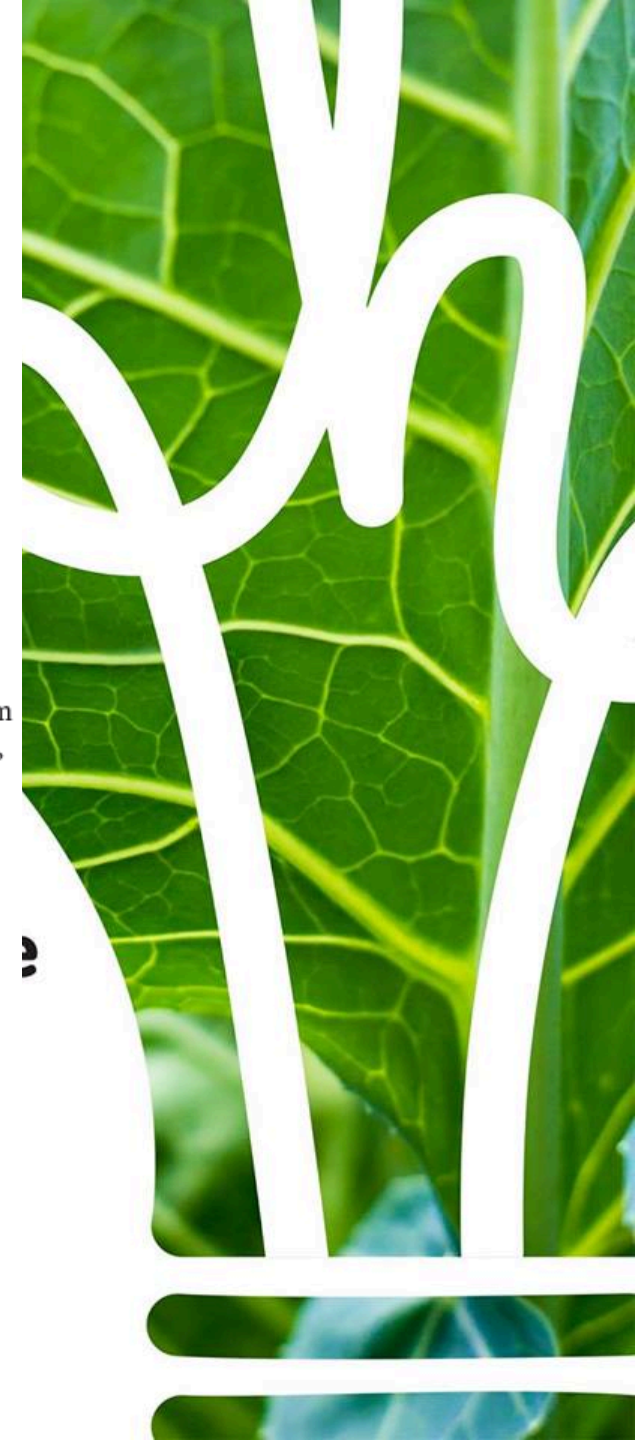
Increasing  
population, receding  
groundwater, water  
pollution, poor legal  
procedures, and  
deforestation

**Cape Town, South Africa**

Extreme drought, the food  
shortages, increase tensions  
between public and government,  
and breakdowns in sanitation

**California, USA**

Drought high  
demand on  
groundwater,  
decreased water  
levels





# One HEALtH Student Challenge

- 22 students representing 10 countries and 15 disciplines
- Evaluated the global water scarcity issues
  - Population growth
  - Nutrition
  - Agriculture
  - Poverty
  - Globalization
  - Land use and resource development
  - Urbanization and migration
  - Social justice and conflict
  - Climate Change



**HEALtH Challenge**  
Human, Environment, Animal ties to Health



# KIVA project



Repaid

Total loan: \$3,750

Powered by 55 lenders

Ceferino



Mariano R. Alonso, Paraguay / Water Distribution

Find a new loan

A loan of \$3,750 helped to maintain the well.



# One Health World Congress





# One Health Week



Please join us for  
International One Health Week!

*October 30 – 31*

Paint the Rock- Check out Canadian Studies Center events tab on Facebook for more detail, Students Send One Health Message to Campus Community

*Thursday, Nov 1*

Environmental Science & Policy Program (ESPP) Research Symposium, Watch for One Health session and related posters, Kellogg Center, 8 a.m. – 5 p.m.

*Friday, Nov 2*

Breakfast Seminar & Poster Display - Key speaker, Dr. Mahesh Kumar, Zoetis Global Biologics R&D, 303 International Center, Zooming with Univ. of Saskatchewan, 9 – 11:30 a.m.

*Sunday, Nov 4*

Woldumar Nature Center Run-A-Munk 5k/10k, Community Collaboration with One Health Spartans – Register as a One Health Spartan!

*Monday, Nov 5*

Dr. Heather Brake, Center for Disease Control & Prevention (CDC) Key speaker, 1:45 – 2:45 p.m., E100 Vet Med Center, 736 Wilson Road

MICHIGAN STATE  
UNIVERSITY

## Thank you

International One Health  
Week Sponsors!

- Council of Graduate Students (COGS)
- Vice President for Research and Graduate Studies (VPGRS)
- Institute for Global Health/College of Osteopathic Medicine
- College of Veterinary Medicine
- Canadian Studies Center/International Studies and Programs
- Environmental Science and Policy Program/College of Social Science
- College of Engineering

Check out Canadian  
Studies Center events tab  
on Facebook for more  
details including sponsors  
or email [csc@msu.edu](mailto:csc@msu.edu)

# Students Opportunities

- Collaborate with colleagues around the world
- Develop an understanding of One Health
- Be integral to their studies and careers



**HEALtH Challenge**

Human, Environment, Animal ties to Health



# Overall and Future work

- Create a global network of early career problem solvers
- Advance a One Health education and training initiative across MSU and borders
- Propose multidisciplinary OH graduate programs through MSU partners



**HEALtH Challenge**

Human, Environment, Animal ties to Health

