

IDM Symposium: Day 1

Hyatt Regency, Monday 4/15/2019 IDM Symposium

8:00am-8:45am

Registration and Breakfast

Please join us for a continental breakfast of fresh fruit and pastries, located outside the main entrance of the Auditorium.

8:45am-9:00am

Auditorium

Welcome

Robert Hart, *IDM*

9:00am-10:30am

Auditorium

**General
Session 1;
Genetics**

Chair: Josh Proctor, *IDM*

David Rasmussen, *North Carolina State University*

Jennifer Gardy, *BMGF*

Alison Mather, *Quadram Institute Bioscience*

10:30am-11:00am

Coffee and Break

11:00am-12:15pm

Juniper

Breakout

Mapping MNCH trends

Chair: Assaf Oron, *IDM*

Roy Burstein, *IDM*

Assaf Oron, *IDM*

Kathryn Banke, *BMGF*

11:00am-12:15pm

Auditorium

Breakout

Advances in statistics and mathematics for the study of infectious disease spread

Chair: Josh Proctor, *IDM*

Niall Mangan, *Northwestern University*

Samir Bhatt, *Imperial College London*

Benjamin Brintz, *University of Utah*

Kyle Gustafson, *US Navy*

11:00am-12:15pm

Laurel

Breakout

Understanding health seeking

Chair: Caitlin Bever, *IDM*

Marie-Reine Rutagwera, *PATH*

Dorothy Echodu, *Pilgrim Africa*

Dan Weiss, *Malaria Atlas Project, University of Oxford*

Justin Cohen, *CHAI*

12:15pm-2:00pm

Lunch at Eques

With its casual Northwest décor and creative menu, Eques serves a fresh and contemporary buffet seven days a week using high quality, locally sourced seasonal ingredients.

2:00pm-3:30pm

Laurel

Breakout

Tuberculosis

Chair: Bradley Wagner, *IDM* & Stewart Chang, *IDM*

Haylea Hannah, *UW*

Jorge Ledesma, *IHME*

Adrienne Shapiro, *UW*
Jennifer Ross, *UW*
Jessie Brown, *Linksbridge, SPC*

2:00pm-3:30pm *Auditorium* **Breakout** **Data-driven operations**
Chair: Amelia Bertozzi-Villa, IDM
Anna Bershteyn, *IDM*
Ruben Conner, *Consultant*
Daniel Citron, *IHME*
Adolphus Clarke, *Ministry of Health, Republic of Liberia*
Kate Battle, *Malaria Atlas Project*

2:00pm-3:30pm *Juniper* **Breakout** **Measles**
Chair: Kevin McCarthy, IDM
Amy Winter, *Johns Hopkins Bloomberg School of Public Health*
Matt Ferrari, *Penn State University*
Michael J Mina, *Harvard School of Public Health & Medical School*
Kurt Frey, *IDM*

2:00pm-3:30pm *Madrona* **Breakout** **Accelerating calibration and analysis using distributed computing**
Chair: Benoit Raybaud, IDM
Jonathan Russell, *IDM*
Benoit Raybaud, *IDM*
Albert Lee, *IDM*

4:00pm-5:00pm *Larch* **Poster Session**

IDM Symposium: Day 2

Hyatt Regency, Tuesday 4/16/2019 IDM Symposium

8:00am-9:00am **Registration and Breakfast**
Please join us for a continental breakfast of fresh fruit and pastries, located outside the main entrance of the Auditorium.

9:00am-10:30am *Auditorium* **General Session 2; Modeling** **Chair: Guillaume Chabot-Couture, IDM**
Niket Thakkar, *IDM*
Amelia Bertozzi-Villa, *IDM*
Sarah Volkman, *Harvard T.H. Chan School of Public Health & Broad Institute*

10:30am-11:00am *Coffee and break*

11:00am-12:15pm *Juniper* **Breakout** **Azythromycin**
Chair: Dennis Chao, IDM
Judd Walson, *UW*
Patty Pavlinac, *UW*
Catie Oldenburg, *UCSF*

Christian Bottomley, *LSHTM*
Assaf Oron, *IDM*

11:00am-12:15pm *Auditorium* **Breakout** **Modeling resistance**
Chair: Prashanth Selvaraj, IDM
Nani Metchanun, *Center for Development Research*
Maciej Boni, *Penn State University*
Dan Strickman, *BMGF*
Tamsin Lee, *Swiss TPH*

11:00am-12:15pm *Laurel* **Breakout** **Health economics**
Chair: Marita Zimmermann, IDM
Allison Portnoy, *Harvard T.H. Chan School of Public Health*
Rachel Nugent, *RTI International*
Mercy Mvundura, *PATH*
Carol Levin, *UW*

11:00am-12:15pm *Madrona* **Breakout** **Introduction to agent-based modeling**
Jen Schripsema, *IDM*
Mandy Izzo, *IDM*

12:15pm-1:30pm **Lunch at Eques**
With its casual Northwest décor and creative menu, Eques serves a fresh and contemporary buffet seven days a week using high quality, locally sourced seasonal ingredients.

1:30pm-2:30pm *Auditorium* **General Session** **Student talks**
Chair: Edward Wenger, IDM
Victor Asua, *Infectious Diseases Research Collaboration*
Gonche Danesh, *IRD*
Grace Macklin, *LSHTM*

2:30pm-9:00pm **Dinner and Excursion**
Please join us for the IDM hosted excursion and dinner. This year's excursion will be held at the iconic Museum of Pop Culture (MoPop). As a guest you'll get to explore exhibits on Seattle's own Pearl Jam and Nirvana as well as take a journey through fantasy, science fiction, and horror with artifacts from iconic television shows and movies. Explore your inner musician in the Sound Lab, a multimedia, hands-on attraction where you can explore electric guitars, drums, samplers, mixing consoles, and more.

This year IDM will be hosting featured speaker, Siddhartha Mukherjee, author of Pulitzer prizing wining book, *The Emperor of All Maladies* as well as *The Gene* and *The Laws of Medicine*.

Following the featured speaker, you're cordially invited to join us for an IDM hosted dinner in the Sky Church area of MoPop. As a guest you will dine on a unique menu of fresh seasonal ingredients provided by Wolfgang Puck catering. Meal options for those with dietary restrictions will be available.

IDM Symposium: Day 3

Hyatt Regency, Wednesday 4/17/2019 IDM Symposium

8:00am-9:00am	Registration and Breakfast Please join us for a continental breakfast of fresh fruit and pastries, located outside the main entrance of the Auditorium.		
9:00am-10:30am	Auditorium	General Session 3; Informing Policy	Chair: Caitlin Bever, IDM Abdisalan Noor, <i>WHO</i> Damian Walker, <i>BMGF</i> David Wilson, <i>The World Bank</i>
10:30am-11:00am	Coffee and Break		
11:00am-12:15pm	Juniper	Breakout	Understanding genomic surveillance data and implications for malaria elimination Chair: Josh Proctor, IDM Maxwell Murphey, <i>UC Berkeley</i> Seth Redmond, <i>Broad Institute/HSPH</i> Aimee Taylor, <i>Harvard T.H. Chan School of Public Health</i> Albert Lee, <i>IDM</i>
11:00am-12:15pm	Laurel	Breakout	INFORM Chair: Andre Lin Ouedraogo, IDM Abraham Flaxman, <i>IHME</i> Karim Derra, <i>CRUN-IRSS Nanoro</i> Navideh Noori, <i>IDM</i> Qinghua Long, <i>IDM</i>
11:00am-12:15pm	Auditorium	Breakout	Epidemiology Chair: Laura Skrip, IDM & Laurent Hébert-Dufresne, University of Vermont Adia Benton, <i>Northwestern University</i> Gerardo Chowell, <i>Georgia State University</i> Laurent Hébert-Dufresne, <i>University of Vermont</i> Sharon Abramowitz, <i>Independent</i>
11:00am-12:15pm	Madrona	Breakout	Utilizing GPU computational resources for agent-based models Christopher Lorton, <i>IDM</i>
12:15pm-2:00pm	Lunch at Eques With its casual Northwest décor and creative menu, Eques serves a fresh and contemporary buffet seven days a week using high quality, locally sourced seasonal ingredients.		
2:00pm-3:30pm	Juniper	Breakout	Linking environmental factors to infectious disease and mortality patterns Chair: Mollie Van Gordon, IDM & Navideh Noori, IDM Michael Brauer, <i>UBC/IHME</i> Radina Soebiyanto, <i>NASA Goddard Space Flight Center</i> Pamela Martinez, <i>Harvard T.H. Chan School of Public Health</i> Michele Nguyen, <i>University of Oxford</i>

2:00pm-3:30pm	Laurel	Breakout	HIV transmission dynamics in the era of test and treat Chair: Adam Akullian, IDM Paul-Marie Grollemund, <i>Imperial College London</i> Will Probert, <i>University of Oxford</i> Hae-Young Kim, <i>Africa Health Research Institute</i> Danae Black, <i>UW</i> Adam Akullian, <i>IDM</i>
2:00pm-3:30pm	Auditorium	Breakout	Applications of data science, machine learning, and artificial intelligence in health and development Chair: Dan Klein, IDM Uyi Stewart, <i>BMGF</i> Nick Sorros, <i>Wellcome Trust</i> David Wilson, <i>The World Bank</i> Jessica Shearer, <i>PATH</i>
3:30pm-4:00pm	Auditorium	General Session	Symposium Conclusion Edward Wenger, <i>IDM</i>
