

EQUITY, DIVERSITY, AND GENOMIC DATA SCIENCE

SEPTEMBER 3RD THROUGH 5TH, 2019

**I HOTEL & CONFERENCE CENTER
1900 1ST ST**

*Hosted by the Carl R. Woese Institute for Genomic Biology (IGB)
and the National Human Genome Research Institute (NHGRI)*

Day 1 – Tuesday, September 3rd

Location: Illinois Ballroom

Opening session

- 4:00 – 4:30pm Welcome address and workshop introduction
Drs. Gene Robinson (IGB) and Lawrence Brody (NHGRI)
- 4:30 – 5:00pm Dr. Ruby Mendenhall, University of Illinois at Urbana
Champaign
- 5:00 – 5:30pm Dr. Carl Gunter, University of Illinois at Urbana-Champaign
- 5:30 – 6:30pm *Evening reception with hors d'oeuvres*
- 6:30 – 8:00pm **Public Forum: Artificial Intelligence, Health, & Society**
Rashida Richardson, AI Now Institute
Dr. Karrie Karahalios, University of Illinois at Urbana-Champaign
Andrew Paley, Computer Science PhD Student, Northwestern
University
- 8:00 – 9:00pm *Dessert Reception*

Day 2 – Wednesday, September 4th

Location: Chancellor Ballroom

- 8:30 – 8:40am Introductory remarks (Dr. Gene Robinson, IGB)
- 8:40 – 8:50am Welcome address (Dr. Susan Martinis, University of Illinois at Urbana-
Champaign)

Session 1: Technical Challenges and Opportunities with Genomic Data Science and Diverse Communities

(Moderator – Dr. Saurabh Sinha, University of Illinois at Urbana-Champaign)

- 8:50 – 9:00am Introduction (Dr. Saurabh Sinha)
- 9:00 – 10:00am Session 1 Presentations
Dr. William Southerland, Howard University
*“The Interaction Between Genomic Data Science and Diverse
Communities: Technical Challenges and Opportunities”*

Dr. Jeff Leek, Johns Hopkins University

“Lessons Learned Trying to Democratize Data Science Education as an Economic Intervention”

Dr. Julia Stoyanovich, New York University

“Data, Responsibly”

Dr. Sandra Rodriguez-Zas, University of Illinois at Urbana-Champaign

“Technical Challenges & Opportunities with Genomic Data Science & Diverse Communities: A Data Analytics Perspective”

10:00 - 10:40am Discussion open to all participants

10:40 - 10:50am *Coffee break*

Session 2: Social and Policy Issues regarding Genomic Data Privacy, Security and Access

(Moderator - Dr. Carl Gunter, University of Illinois at Urbana-Champaign)

10:50 - 11:00am Introduction (Dr. Carl Gunter)

11:00am - 12:00pm Session 2 Presentations

Dr. Shawneequa Callier, George Washington University

Deven McGraw, Ciitizen Corporation

“Privacy Laws Protecting Genetic/Genomic Data”

Rashida Richardson, AI Now Institute

“Social and Policy Considerations in Achieving Diversity in Genomic Research”

Dr. Arif Harmanci, U. Texas Health Science Center at Houston

“Privacy Implications of Functional Genomics Data”

12:00 - 12:40pm Discussion open to all participants

12:40 - 1:30pm *Lunch break*

Session 3: Implementation of EHRs and Genomic Medicine in Diverse Communities

(Moderator - Dr. Rana Hogarth, University of Illinois at Urbana-Champaign)

1:30 - 1:40pm Introduction (Dr. Rana Hogarth)

1:40 - 2:40pm Session 3 Presentations

Dr. Teresa Zayas-Cabán, Office of the National Coordinator for Health Information Technology

“Making Interoperability Work for Genomic Research and Genomic Medicine”

Dr. Siddharth Pratap, Meharry Medical College

“Implementing a Medical Genomics Process at a Small Inner-City Hospital”

Dr. Casey Overby Taylor, Johns Hopkins University

“Clinical Decision Support for Genomic Unsolicited Health Information”

Dr. Samuel Aronson, Partners Healthcare

“Current and Potential Future Directions in Digital Care Transformation”

2:40 - 3:30pm Discussion open to all participants

3:30 - 3:45pm *Coffee break*

Session 4: Recruitment and Retention of Diverse Communities for Data-Intensive Genomics Research

(Moderator - Dr. Ruby Mendenhall, University of Illinois at Urbana-Champaign)

3:45 - 3:55pm Introduction (Dr. Ruby Mendenhall)

3:55 - 5:10pm Session 4 Presentations

Dr. Vanessa Hayes, Garvan Institute

“Engagement, Recruitment and Retention - Lessons from southern Africa”

Dr. Maui Hudson, The University of Waikato

“Building Trust, Accountability & Equity in Genomic Science in Aotearoa New Zealand”

Dr. Jennifer Raff, University of Kansas

“Respectful Research with Ancestors: Approaches to Working with Indigenous Communities from Anthropological Genetics”

Dr. Consuelo Wilkins, Vanderbilt University

“Are You Trustworthy Enough?”

Dr. Karriem Watson, University of Illinois at Chicago

“Engaging African American Men as Citizen Scientists to Advance Diversity in Prostate Cancer Research”

5:10 – 5:50pm

Discussion open to all participants

5:50 – 6:00pm

Wrap-up of Day 2 discussions (Drs. Robinson, Brody and session moderators)

6:30 – 8:00pm

Dinner at IGB, Room 612 (1206 West Gregory Drive, Urbana)

Day 3 - Thursday, September 5th

Location: Lincoln Room

8:30 - 8:50am Setting continuity from Day 2
(Drs. Gene Robinson and Lawrence Brody)

Session 5: Genomic Data Science Professions and Workforce Development

(Moderator - Dr. Ripan Malhi, University of Illinois at Urbana-Champaign)

8:50 - 9:00am Introduction (Dr. Ripan Malhi)

9:00 - 10:00am Session 5 Presentations

Dr. David Boone, University of Pittsburgh

“Broadening Participation in Data Science and Genomics through High School and Undergraduate Internship Programs”

Dr. Herman Taylor, Morehouse School of Medicine

“The Leaky Pipeline for Genomics and Data Science Professionals”

Dr. Sarah Myers West, AI Now Institute

“Discriminating Systems: Diversity and Inclusion in AI”

Dr. Ripan Malhi

“The SING (Summer internship for INdigenous peoples in Genomics) Program as a Model of Culture Change in STEM”

10:00 - 10:45am Discussion open to all participants

10:45 - 11:00am *Coffee break*

11:00 - 11:50am Recommendations for NHGRI

11:50am - 12:00pm Closing Remarks (Drs. Gene Robinson and Lawrence Brody)