



Modeling the World's Systems

May 21–22, 2018 | Pittsburgh, PA

Agenda

Last updated: May 11, 2018

Monday, May 21

8:00–9:00AM

Registration and Breakfast

9:00–11:00 AM

Welcome, Introduction, and Keynotes

Welcoming Remarks

Patricia Beeson, *Provost, University of Pittsburgh*

Introductory Remarks

Paul R. Cohen, *Founding Dean and Professor, School of Computing and Information, University of Pittsburgh*

Opening Keynote

Patrick Gallagher, *Chancellor, University of Pittsburgh*

Title TBD

Graham Macmillan, *Senior Program Officer for Impact Investing and Inclusive Economies, Ford Foundation*

“Why I am More Excited About Computational Modeling Than Data Science”

Andrew Moore, *Dean, School of Computer Science, Carnegie Mellon University*

“Modeling the World”

Joshua Elliot, *Program Manager, Information Innovation Office, DARPA*

11:00–11:30 AM

Break

11:30 AM–12:30 PM

Panel Presentation | Successful Aging Models

Moderator: Greg Cooper, *Professor, Department of Biomedical Informatics; Vice Chairman, Department of Biomedical Informatics, School of Medicine, University of Pittsburgh*

- John Bachman, *Fellow in Therapeutic Science, Laboratory of Systems Pharmacology, Harvard Medical School*
- Toren Finkel, *Director of Aging Institute and Beckwith Professor of Translational Medicine, UPMC and University of Pittsburgh*
- Oscar Marroquin, *Chief Clinical Analytics Officer, UPMC Health Services Division; Associate Professor, School of Medicine, University of Pittsburgh*
- Steve Shapiro, *Executive Vice President, UPMC*

12:30–1:30 PM

Lunch



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1:30–2:30 PM

Panel Presentation | Finance and Economics for Social Change

Moderator: Graham Macmillan, *Senior Program Officer, Impact Investing and Inclusive Economies, Ford Foundation*

- CB Bhattacharya, *H.J. Zoffer Chair in Sustainability and Ethics, Katz Graduate School of Business, University of Pittsburgh*
- Annie Knickman Plancher, *Director of Advisory Services, Social Finance*
- Christian Racicot, *Co-Founder and CEO, Quebec City Conference*
- Gary Way, *Senior Vice President, PNC Bank*

2:30–3:00 PM

Break

3:00–4:00 PM

Panel Presentation | Modeling Urban Systems

Moderator: Alex Labrinidis, *Professor, School of Computing and Information, University of Pittsburgh*

- D. Tyler Gourley, *Vice President, Hillman Family Foundations*
- Christina Mair, *Assistant Professor, Behavioral and Community Health Sciences, University of Pittsburgh*
- Raj Rajkumar, *George Westinghouse Professor of Electrical and Computer Engineering; Director, T-SET University Transportation Center; Carnegie Mellon University*
- Steve Smith, *Director, Intelligent Coordination and Logistics Laboratory, Carnegie Mellon University*

4:00 –5:00 PM

Panel Presentation | Global / National Security Challenges

Moderator: Joshua Elliott, *Program Manager, Information Innovation Office, DARPA*

- Major General Jody Daniels, *Chief of Staff, US Army Forces Command*
- Matt Dabkowski, *Director, Operations Research Center of Excellence, United States Military Academy*
- John Greer, *National Geospatial-Intelligence Agency*
- Costa Samaras, *Assistant Professor, Civil and Environmental Engineering, Carnegie Mellon University*

5:00–5:15 PM

Call to Action and Evening Working Sessions



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Tuesday, May 22

7:30–8:30AM

Registration and Breakfast

8:30 –11:30 AM

Tutorials

Agent Based Modeling: FRED

John Grefenstette, *Professor of Health Policy and Management, University of Pittsburgh*

Causal Modeling

Greg Cooper, *Professor of Biomedical Informatics; Director of Center for Causal Discovery, University of Pittsburgh*

Models of Human Behavior and Experiments

Sera Linardi, *Associate Professor, Graduate School of Public and International Affairs, University of Pittsburgh*

Workflow Systems: OCCAM

Bruce Childers, *Associate Dean for Strategic Initiatives, School of Computing and Information, University of Pittsburgh*

Integrated Network and Dynamical Reasoning Assembler: INDRA

Benjamin Gyori, *Research Associate in Therapeutic Science, Laboratory of Systems Pharmacology, Harvard Medical School*

Quantum Information

Jeremy Levy, *Distinguished Professor of Condensed Matter Physics; Director of the Pittsburgh Quantum Institute, University of Pittsburgh*

11:30 AM –12:30 PM

Panel Presentation | Modeling the Opioid Epidemic

Moderator: Don Burke, *Dean, Graduate School of Public Health, University of Pittsburgh*

- Carolyn Byrnes, *Special Assistant to the Secretary of Health, Pennsylvania Department of Health*
- Alex Cosman, *Director of Active Performance Management, Social Finance*
- Mark Roberts, *Professor and Chair, Department of Health Policy and Management, University of Pittsburgh*

12:30–2:00 PM

Lunch

Speaking of Complicated Systems—Washington and the Media in the Age of Trump and Facebook

Howard Fineman, *News Analyst, NBC News*

2:00–2:30 PM

Talk

Visioning and Challenge Problems

Rob A. Rutenbar, *Senior Vice Chancellor for Research, University of Pittsburgh*

2:30–4:00 PM

Building Our Community of Interest

Moderator: James Donlon, *Program Director, National Science Foundation*

- Adam Bly, *Founder & CEO, AI/Data Startup*
- Aaron Sisto, *Technology Architect, In-Q-Tel*