

# HACKS FOR HUMANITY



## Intro

Imagine 36 hours of techies, programmers, developers, humanitarians, artists, students, educators, community members and creative visionaries gathered in one place to hack for social good and build technology solutions to address pressing issues facing humanity. The mission of Hacks for Humanity is to create technology solutions and initiatives that contribute to the social good and address the needs of humanity through the lens of what Project Humanities at Arizona State University terms Humanity 101: respect, kindness, integrity, forgiveness, empathy, compassion, and self-reflection. In this session, we will discuss the significant roles of humanity in the process of innovating solutions. The panelists will share their experience and what they have learned from thrice hosting the multidisciplinary and multigenerational hackathon and will also share their vision for moving forward.

## Speakers



### **Pat Pataranutaporn (Chair)**

*Cofounder, Director of Innovation at Humanity X and BioX  
Researcher at Biodesign Institute, Arizona State University, United States of America*

Pat Pataranutaporn is a creative biologist, artist, designer, coder and a student at College of Liberal Arts & Sciences, Arizona State University. His work examines a range from environmental biotechnology to virtual reality and machine learning at the intersection of biology, humanity, and computation. Currently, he is a research fellow at the Biodesign Institute, School of Art, Media + Engineering, and also the cofounder of two award winning technology startups, Humanity X and BioX.



### **Neal Lester, Ph.D.**

*Director of project humanities,  
Co-creator of Hacks for Humanity*

Dr. Lester has been a professor of English at Arizona State University since the fall 1997. He is the director of project humanities, and co-creator of Hacks for Humanity. His area of specialization is African American literary and cultural studies. Dr. Lester earned his B.A. in English from State University of West Georgia and his M.A. and Ph.D. in English at Vanderbilt University. He has published on and taught courses in African American children's literature, African American drama, African American folklore, African American images in American cinema, and black/ white interracial intimacies in American culture.



### **Kacie McCollum, Ed.D.**

*Cofounder, President of Humanity X*

Dr. Kacie McCollum is a co-founder and the Director of Operations of Humanity X. Dr. McCollum has 25 years of experience as a higher education administrator, faculty member and business leader. She holds a B.A. in Political Science from Benedict College, a M.Ed. and Ed.D. in Secondary Teacher Education/Curriculum Design and Instruction from the University of Massachusetts, Amherst. Her experience and interest are in the design of Liberal Arts and Science programs/curriculum, and the intersection of art, technology, science and the humanities as a means to create positive changes in society.



**Michael Burnam-Fink, Ph.D.**

*Interdisciplinary social scientist*

Michael Burnam-Fink is an interdisciplinary social scientist who studies the interactions between knowledge and power, ideals and responsibilities, imagination and actuality, in a variety of settings. He completed his dissertation in August 2016 at Arizona State University's School for the Future of Innovation and Society. "Making Better Students: ADHD and the Biopolitics of Stimulant Medication", which analyzed the relationship between the psychiatric diagnosis of ADHD, the political program of disability accommodations, and the emerging practice of human enhancement. He is currently developing research projects around innovation and better futures.



**Chethan Sarabu, M.D.**

*Clinical Informatics Fellow at Stanford Children's Health | Lucile Packard Children's Hospital Stanford*

A native of upstate New York, Chethan attended Cornell University where he majored in Landscape Architecture and Biology; exploring the intersection of urban design and health. He applied these skills as a user interface designer and researcher at their interaction design lab. During his Pediatrics residency at Rutgers Robert Wood Johnson he contributed to the hospital EHR as a member of the physician's advisory committee. His ongoing research project, Drawing Play explores the role of drawing in communicating with children at healthcare visits. Chethan is currently a fellow in Clinical Informatics at Stanford University where he explores his wide range of passionate interests at the intersection of pediatrics, design, public health, and technology.



**Neil Gandhi, M.D. Candidate**

*Co-Founder/CTO of BioMetrics Analytics*

Neil Gandhi is an M.D. Candidate at Stanford University with a passion for innovation in digital health and medical devices. Neil is a Co-investigator on VascTrac: A Peripheral Artery Disease research study powered entirely by the iPhone. He is also the Medical Lead for Health++: Stanford's Inaugural Health Hackathon, Teaching Assistant for Stanford Biodesign, and an Analyst-in-Residence at Health Tech Capital. He was previously Co-Founder/CTO of BioMetrics Analytics, an entrepreneurial venture focused on tracking gait for Parkinson's disease. Prior to that, Neil interned at CalTech and Vessix Vascular (acquired by Boston Scientific) as an engineer. Neil holds a B.S. in Bioengineering from UC San Diego.