



## LHS Tech Forum Inaugural Webinar

### Open Challenge to Realize the Vision of Global Learning Health Systems

#### *Description:*

The Learning Health System (LHS) vision grew out of multi-stakeholder work initiated by the National Academy of Medicine (NAM/IOM). It has been adopted by the US Department of Health and Human Services (HHS) to guide the health information technology and to transform healthcare and health. LHSs do this by harnessing the power of data and analytics to enable learning from real-world health experiences, and in turn mobilize lessons learned to better inform all decisions affecting health. It is expected that LHS will transform global healthcare systems and public health. However, while the LHS vision has spread globally since the first national LHS Summit organized by the Learning Health Community in 2012, there is still much work to be done to mobilize the LHS vision from an academic concept into a bold new reality that touches people's lives and health. So, the global Learning Health Community is launching a new initiative, the LHS Tech Forum, aiming to connect industry innovators with academic LHS researchers for open discussions and collaborations. The forum is free and open to the public.

In this inaugural LHS Tech Forum, leading academic LHS researchers and AI researchers will begin the open dialogue with top industry leaders. Engineers, business innovators, scientists, and medical professionals are welcome to participate in discussing the open challenges of collaboratively realizing the LHS vision in global healthcare transformation. Some key questions to be asked include: Is LHS the right vision for healthcare transformation? What areas should technology companies focus on to build killer applications to enable LHS? How can we as a community foster more collaborations between academic researchers and the technology industry? How can this LHS forum encourage more companies and developers to work on LHS ideas and applications to accelerate the realization of the LHS vision?

#### *To Participate:*

Date: Monday, December 7, 2020

Time: 3:00PM-4:30PM PST | 6:00PM-7:30PM EST

Zoom: A Zoom link (courtesy of Stanford University) will be provided after registration.

\*\*\*\*\* Registration: Registration is free and open to the public. **To register, please join our [Learning Health Systems LinkedIn Group](#). Alternatively, you may email [lhs.tech.forum@gmail.com](mailto:lhs.tech.forum@gmail.com) to register.** \*\*\*\*\*

Additional Information: For more information, please see our [LHS Tech Forum Initiative](#) webpage.



*Agenda:*

1. Community announcement (5 min): Joshua Rubin, Esq. will announce the Learning Health Community's new LHS Tech Forum Initiative.
2. Presentation (20 min): Prof. Charles Friedman from U. Michigan will introduce the LHS vision, progress, and challenges.
3. Presentation (20 min): Dr. John Glaser from Harvard Medical School will present the status of health information systems, the needs for rethinking and making fundamental system-level changes.
4. Presentation (20 min): Prof. James Zou from Stanford University will present exciting healthcare AI research and where AI can play important roles in building learning health systems going forward.
5. Q&A (25 min): Dr. AJ Chen will moderate a Q&A session with the speakers, open to the audience; he will also briefly discuss the next steps for building the LHS community and engaging more people in the mission.

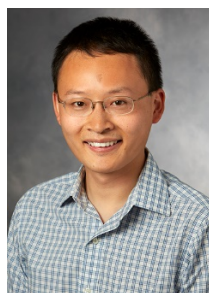
*Speaker Bios:*



**Charles Friedman, PhD** is the Josiah Macy Jr. Professor of Medical Education and Chair of the Department of Learning Health Sciences at the University of Michigan Medical School. In recent years, he has focused his academic interests and activities on the concept of Learning Health Systems, and the socio-technical infrastructure required to sustain them. He is editor-in-chief of the open-access journal Learning Health Systems and co-chair of the movement to Mobilize Computable Biomedical Knowledge. Prior to coming to Michigan, Friedman held executive positions at the Office of the National Coordinator for Health IT (ONC) in the U.S. Department of Health and Human Services. Immediately prior to his work in the government, Dr. Friedman was Associate Vice Chancellor for Biomedical Informatics, and Founding Director of the Center for Biomedical Informatics at the University of Pittsburgh.



**John Glaser, PhD** is an Executive-in-Residence at Harvard Medical School Executive Education. He is a former senior vice president of Population Health at Cerner. Previously he was chief executive officer of Siemens Health Services. Prior to Siemens, John was chief information officer at Partners HealthCare. John was the founding chair of CHIME and the past-president of HIMSS. He is former Senior Advisor to the Office of the National Coordinator for Health Information Technology. John received his Ph.D. from the University of Minnesota. He is on the faculty of the University of Pennsylvania Wharton School and the UTHealth School of Biomedical Informatics.



**James Zou, PhD** is an Assistant Professor of Biomedical Data Science at Stanford University. He is also a Chan-Zuckerberg investigator and the faculty director of Stanford AI for Health. James develops novel machine learning algorithms that have strong statistical guarantees and that are motivated by human health challenges. Several of his methods are widely used by tech, biotech and pharma companies. He also works on questions important for the broader impacts of AI—fairness, accountability, interpretations, and robustness. He has received several best paper awards at top CS venues, the 2019 RECOMB best paper award, a NSF CAREER Award, a Google Faculty Award, and a Tencent AI award.



**AJ Chen, PhD** is a Learning Health System consultant in Silicon Valley and visiting professor at Guilin Medical University with a mission to reduce global health care disparities through helping organizations to build LHS. Previously co-chaired US HHS Southwest and Pacific Region Health Equity Council, and served on the Consumer Technology Workgroup of the US HHS Federal Advisory Committee on Health IT Standards. Won US HHS developer challenges twice. Founded iHealthd to provide patient education platform. Former Director of Semantic Technology at healthline.com,

responsible for developing the core intelligent technology powering many health information systems including healthline.com, Yahoo Health, Elsevier ClinicalKey and Aetna. Developed genomic information technologies for precision medicine vision at Hyseq Inc. and its spinoffs. Earlier, partnered with Dr. Barry Marshall to promote his disrupted medical discovery (Barry won Nobel Prize 10 years later). Joined Harvard and Duke medical schools for post-doc research in Immunology after earning PhD in Biological Chemistry from University of Utah and BS in Chemistry from Fudan University.



**Joshua C. Rubin, JD, MBA, MPH, MPP** is Program Officer for Learning Health System Initiatives at the University of Michigan Medical School Department of Learning Health Sciences. He also serves as Executive Director of the Joseph H. Kanter Family Foundation, the only philanthropic foundation founded by a patient whose overarching mission is to realize a patient empowering Learning Health System vision. Previously, Rubin served as Senior Policy Fellow at eHealth Initiative and as Senior Consultant at IBM Global Business Services. He serves as the founding President and CEO of the Learning Health Community, a multi-stakeholder grassroots movement dedicated to realizing the Learning Health System vision on a national (and ultimately global) scale. Rubin received his JD from Georgetown University Law Center, and also holds MBA and MPP from Georgetown University, and MPH from Johns Hopkins University Bloomberg School of Public Health.

*Organizer:*

Learning Health Community (With over 100 endorsers to LHS Core Values, including Joseph H. Kanter Family Foundation, GE Healthcare IT, Epic, GlaxoSmithKline, Stanford Children's Health, Johns Hopkins Medicine, University of Michigan, Duke Center for Learning Health, HIMSS, HL7 International, American College of Physicians, Booz Allen Hamilton. Please see more at: <http://www.learninghealth.org> )

*Organizing Committee:*

**AJ Chen, PhD | Joshua C. Rubin, JD, MBA, MPH, MPP | Sophia Wang, MD**

*Advisor Committee:*

**Charles Friedman, PhD - Chair**

We are inviting more volunteers to join the [LHS Tech Forum Initiative](#), to help organize and promote the forums globally. If you are interested in LHS vision and mission, please connect with us via our [Learning Health Systems LinkedIn Group](#).