KALEV HANNES LEETARU, PhD | CURRICULUM VITAE

Founder, GDELT Project
Media Fellow, RealClearFoundation
Senior Fellow, Center for Cyber & Homeland Security, the George Washington University
Google Developer Expert, Google Cloud Platform
Contributor, Forbes
Featured Voice / Columnist, Foreign Policy Magazine
Past Yahoo! Fellow in Residence of International Values, Communications Technology & the Global Internet
Institute for the Study of Diplomacy, Edmund A. Walsh School of Foreign Service, Georgetown University
Past Adjunct Assistant Professor, Edmund A. Walsh School of Foreign Service, Georgetown University
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Summary

One of Foreign Policy Magazine's Top 100 Global Thinkers of 2013 and a 2015-2018 Google Developer Expert for Google Cloud Platform, Dr. Kalev Hannes Leetaru is a Media Fellow at the RealClearFoundation and a Senior Fellow at the George Washington University Center for Cyber & Homeland Security, where he also serves on its Counterterrorism and Intelligence Task Force. From 2013-2014 he was the Yahoo! Fellow in Residence of International Values, Communications Technology & the Global Internet and in 2014 was an Adjunct Assistant Professor in the Edmund A. Walsh School of Foreign Service at Georgetown University in Washington, DC. From 2014-2015 he was a Council Member of the World Economic Forum's Global Agenda Council on the Future of Government. Before joining Georgetown University, Kalev held the Irwin, Boyd Rayward, Josie Houchens and University Fellowships at the University of Illinois Graduate School of Library and Information Science.

One of the leading innovators of the internet era, for 23 years Kalev H. Leetaru has been at the forefront of reimagining how we understand our world through some of largest datasets and computing platforms on the planet. His landmark studies have profoundly reshaped the way we use data in the study of human society and even redefined what "big data" is, leading Der Speigel to call him "one of the superstars of the new discipline".

Kalev's work has been featured in publications from Nature to the New York Times and in the presses of more than 100 nations. In 2011 The Economist selected his Culturomics 2.0 study as one of just five science discoveries deemed the most significant developments of 2011, while the following year HPCWire awarded him the Editor's Choice Award for Edge HPC (High Performance Computing) "representing the highest level of honor and recognition given to the thought leaders in the HPC community" and in 2013 noted "his research helped usher in the era of petascale humanities," while later that year his work on Twitter was recognized by Harvard's Neiman Lab as the top social media study of 2013. In 2015 he was interviewed extensively as part of a History Channel 2-hour special on Nostradamus and the future of forecasting.

For his undergraduate thesis, Kalev personally captured more than 250,000 photographs of his campus, wrote histories of more than 300 buildings, personally digitized more than 30,000 pages of material dating back 150 years and combined all of this material, along with another 50,000 pages of donated digitized content into what was at the time one of the most advanced holistic digital history platforms, which he built from scratch as part of his research on digital content management and publication. The project quickly became the official reference for university history and imagery, with the images appearing in more than 22,000 venues within the first few years and the project was eventually taken over by the University Library as an official reference and historical documentary of campus.

His 2011 Culturomics 2.0 study fundamentally transformed the scale at which modern political forecasting is performed. Using an archive of 100 million global news articles spanning a quarter-century, a 2.4 petabyte network of 10 billion people, places, and things, and 100 trillion relationships were used to forecast the Arab Spring, pinpoint Bin Laden's location, and visualize human society's evolution.

His doctoral dissertation two years later reshaped the "big data" socio-cultural study of global human society, creating what was at the time the largest societal "event" database in the world. Its publication and the recognition that a solitary graduate student could launch a program of such magnitude with no external resources and entirely within the scope of a single dissertation led to a complete rebirth of the field and spawned a myriad projects, grand

challenges and funding programs across the world. The at-scale techniques pioneered in the dissertation and Culturomics 2.0 study have become centerpieces of modern forecasting work.

His GDELT Project has become one of the world's most widely used datasets in the study global human society and one of the iconic "big data" gold collections. Today GDELT represents some of the largest deployments in the world of local media monitoring, streaming news machine translation, sentiment mining, textual geocoding, entity extraction, academic literature mining and deep learning image analysis. Its analytic and visualization programs have resulted in some of the largest at-scale renderings of the global communicative landscape and pioneered near-realtime analysis at the terascale and petascale through cloud environments like Google BigQuery, totaling more than 3.2 trillion datapoints as of July 2018.

In 2014 he created the sentiment analysis technology behind NBC Universal SyFy channel's flagship new reality series, Opposite Worlds, which was among the most sophisticated emotional measurement systems for social media ever created, combining the intensity of conversation around each character, the number of discussants, the network structure of all that conversation and the emotion of that discussion using a sentiment engine featuring over 1.6 million words, phrases and common misspellings, a spelling correction engine, hashtag expander, grammatical modeling and even colloquial expressions, all running in realtime to power the show. Opposite Worlds set records across the board in social media engagement with a television series. The first episode was the #1 trending topic globally on Twitter and the series trended globally three times and nationally every night it was on the air. It peaked as the #1 TV series hashtag and consistently ranked among the top 5 series hashtags across broadcast and cable the entire season. Ranked the #1 program in all of broadcast/cable entertainment in tweets/unique, it had more tweets than shows like Duck Dynasty and more tweets/unique than Supernatural, Glee/American Idol, Survivor, Pretty Little Liars, American Horror Story and Wahlburgers. The technology was applied the following season to SyFy's other flagship property Face Off.

In 2012 he collaborated with supercomputer manufacturer SGI to use an engineering prototype of its new UV2 supercomputer, scaling to 4,000 cores and 64TB of RAM in a single system image, to explore world history through the eyes of Wikipedia 1800-2012. The study marked the first time a digital humanities project had ever showcased the launch of a new supercomputer and received widespread media coverage from the New York Times to The Atlantic heralding the "arrival" of big data-driven computing to the supercomputing world and winning the 2012 HPCWire Editor's Choice Award.

Later that same year his Global Twitter Heartbeat study represented the first-ever normalized realtime mapping of the emotions of Twitter and the first in-depth look at the geography of social media, with the resulting algorithms, findings and workflows powering some of the world's largest social geocoding applications today. In 2013-2014 he collaborated with the Internet Archive to create the first at-scale visualizations of the geography of American television, the first at-scale processing of a large web archive through the Archive's 1.6 billion PDFs and the first large-scale socio-cultural literature mining.

Also in 2014 he collaborated with the Internet Archive to take their entire public domain digitized book archive, totaling 600 million pages dating back 500 years from over 1,000 libraries worldwide and extract every image from every page, along with its surrounding text and put it all up on Flickr. The collection received worldwide media coverage and acclaim and the images have quickly become a mainstay of public domain illustrations today. His 2015 Candidate Television Tracker, which tracks all mentions of US presidential candidates, has quickly become the official gold standard for tracking media coverage of the race, used by outlets from the New York Times to press in nations across the world.

Kalev also writes extensively as a columnist and thought leader on the role of data in how we understand global society. He writes regularly for RealClearPolitics, has a weekly column in Forbes where he writes about the intersection of data and society and in the past has written for the Washington Post on Campaign 2016, Foreign Policy (where he was a Featured Voice), The Atlantic, The Guardian and Wired about how data is reshaping our understanding of the world.

From the first study of the geography of social media, which set off the arms race to map Twitter, to the first television show live-controlled by the audience's emotional response to its characters, which set numerous records for social engagement with a television show, from the largest deployment of sentiment analysis (more than 2,300 emotions and themes applied to all accessible global news), to the first deployment of whole-of-earth realtime machine translation (live translating all accessible global news media in 65 languages), from the first realtime

mapping of emotion in social media, to the creation of one of the largest historical image collections from half a billion pages of digitized books spanning 500 years and 1,000 libraries, from the first full-scale maps of the geography and emotion of television news, to the first socio-cultural analysis of the world's academic literature, spanning 50 years and more than 21 billion words, from the first at-scale studies of the entire Internet Archive's web collection, exploring its 1.7 billion PDFs, to the pioneering use of emotion in forecasting conflict, and the largest global monitoring platform, Kalev's work has fundamentally redefined how we think about information at scale and how we define the boundaries of the "big data" era.

Today Kalev works with organizations from the Internet Archive to the United Nations, the US Government to NBC Universal, the World Bank to the US Institute of Peace, Silicon Graphics to LinkedIn, the US Army to the Smithsonian, to a myriad government agencies, corporations, and NGOs across the globe to reimagine how we use data to understand the world around us at scales and in ways never before imagined.

Education

2016   PhD, Library and Information Science, University of Illinois
2005   BS, Computer Science, University of Illinois

Professional Experience

RealClearFoundation

2017-Present   **Media Fellow**

Using massive datasets about the media to explore how data can be used to re-imagine the evolving world of journalism.

Google Developer Expert for Google Cloud Platform

2015-Present   **Google Developer Expert**

Google Developer Experts are a global network of experienced product strategists, designers, developers and marketing professionals actively supporting developers, startups and companies changing the world through web and mobile applications.

George Washington University Center for Cyber & Homeland Security

2015-Present   **Senior Fellow**
2015-Present   **Member, Counterterrorism and Intelligence Task Force**

The GW Center for Cyber & Homeland Security is a nonpartisan "think and do" tank whose mission is to carry out policy-relevant research and analysis on homeland security, counterterrorism, and cybersecurity issues. CCHS was established in early 2015 and integrates the activities and personnel of the Homeland Security Policy Institute (HSPI) and the GW Cybersecurity Initiative.

LinkedIn

2015-2015   **Data Consultant**

Tasked with working across LinkedIn to understand how its Economic Graph can be used to understand global economic trends and to develop new kinds of national and industry indicators.

World Economic Forum

2014-2015   **Council Member, Global Agenda Council on the Future of Government**

Exploring how technology and new innovative mindsets can reshape the functioning and role of government in the 21st century under the mission statement of how "technology can act as an enabler to transform government processes, enhancing the provision of public services and enabling higher productivity."

World Bank

2014-2015   **Consultant**

Examining how "big data" and mass open data analytics using GDELT can reshape our understanding of global human society.

United States Institute of Peace

2014-2016   **Consultant**

Integration of GDELT and global news monitoring to further our understanding of global conflict and instability.

United States Army

2012-2014   **Consultant**

Exploration of global news media and academic literature through GDELT to understand stability, local narratives, and advance global socio-cultural understanding.

NBC Universal / Syfy

2014-2014   **Sentiment Technical Adviser**

Constructed and oversaw the sentiment analysis (emotion/tone mining) systems powering two of the Syfy's channel's flagship shows: Opposite Worlds and Face Off. Set numerous records for audience social media engagement with a television show.

Georgetown University Edmund A. Walsh School of Foreign Service

2014-2014   **Adjunct Assistant Professor**

Teach MSFS 546 Big Data Analytics and Global Diplomacy in the Master of Science in Foreign Service (MSFS) program in the Georgetown University Edmund A. Walsh School of Foreign Service.

Georgetown University - Institute for the Study of Diplomacy in the Edmund A. Walsh School of Foreign Service

2013-2014   **Yahoo! Fellow in Residence of International Values, Communications Technology & the Global Internet**

Focusing on the application of "big data" to capture, visualize, and forecast global human society.

University of Illinois - Graduate School of Library and Information Science

2013-2013   **Irwin Fellowship**
2012-2013   **Boyd Rayward Fellowship**
2012-2013   **Josie B. Houchens Fellowship**
2012-2013   **University Fellowship**

Focusing on research in Open Source Intelligence (OSINT) and "big data" analytics around modeling and forecasting global societal unrest.

Institute for Computing in the Humanities, Arts, and Social Science (ICHASS)

2011-2012   **Assistant Director of Text & Digital Media Analytics**
2010-2012   **Senior Research Scientist for Content Analysis**
2010-2012   **Project Director, National Resource for Computational Content Analysis**
2005-2010   **Chief Technology Advisor**

Oversees the Institute's research programs in textual and digital media "big data" analytics, including applying novel algorithms and cross-disciplinary methods to grand challenge problems in the humanities, arts, and social sciences. Founded and oversaw the National Resource for Computational Content Analysis, providing general computational content analysis capabilities to the national community.

National Center for Supercomputing Applications (NCSA)

2006-2012   **Center Affiliate**
2005-2006   **Graduate Research Assistant**
2000-2005   **Undergraduate Research Assistant**

Chief architect and technical director of the NCSA VIAS project. VIAS was an award-winning domain-specific information retrieval, archival, and processing system. It was at the forefront of a number of Fortune 50 corporate intelligence initiatives and deployed extensively in data mining and intelligence applications for corporate, academic, and governmental clients over the better part of a decade. A VIAS Dynamic Knowledge Repository (DKR) is seeded with a set of topic words, URLs, and other information that define the operational parameters of its topical area. VIAS then monitors all known mailing lists, USENET groups, available wirefeeds, and other streaming sources, as well as autonomously crawls the web using a federation of directed web crawlers to collect information on this topic. All information is screened for relevance against the topical parameter space and then undergoes a series of metadata extraction and production processes, where filters identify people, company, and organization names, bibliographic references, and acronym resolutions, together with higher-order processing such as summary abstract generation. An advanced analytics and visualization suite offers a range of features based on this generated metadata, such as temporal entity graphs and relationship mining.

Developer of ShadowLight-Mirage. ShadowLight-Mirage is a virtual reality application that allows the creation and exploration of fully immersive worlds in virtual reality. It was the basis for two projects with the US Army Corps of Engineers and was used for almost three years in a University of Illinois senior and graduate level architectural design course and in an outreach program with a local middle school. It was the first virtual reality application that permitted mix-modality content creation in an immersive environment, covering both structured (architectural) design and freehand (artistic) creation.

Designed and developed numerous data mining, data management and interface applications, ranging from an Office of Naval Research–funded federal grants search and discovery system, to large-scale open source intelligence initiatives. Extensive research on Optical Character Recognition (OCR), machine translation, data management, digitization, workflow, and other digital Humanities, Arts, and Social Sciences (HASS) topics. Extensive experience transferring and applying advanced computational techniques to the Humanities, Arts, and Social Sciences disciplines. Developed and advised numerous data warehousing projects, including HIPAA compliance and large-scale medical records management.

Carbon Capture Report

2005-2012   **Project Director / Chief Architect**

Project Director and Chief Architect of the Carbon Capture Report, a free online service of the University of Illinois (http://www.carboncapturereport.org/) that monitors a daily global representative sample of climate change and energy news in the mainstream and social media and offers a variety of analytical reports including topical trending and geographic patterns. It automatically builds profiles of persons, organizations, news outlets and locations through time, and uses crowdsourcing techniques to autonomously evaluate available information sources.

Cline Center for Democracy

2006-2011   **Founding Coordinator of Information Technology & Research**

Chief Architect of the Center's flagship Social Political Economic Event Database (SPEED) project, one of the largest human-driven open source intelligence (OSINT) initiatives in academia, using newspaper and open source intelligence products (FBIS/OSC and SWB) to catalog societal stability events worldwide 1946-present, codifying 1600 distinct attributes of each, and using the resulting event network for predictive analytics and scenario modeling of state stability over time.

Established and oversaw the Center's mass digitization center, one of the highest-volume microform centers in academia, processing print (70,000+ pages), microfiche (50,000+ fiche totaling over 3M pages of material), and microfilm (1000+ reels totaling 2M+ pages of material). Developed workflows, pipelines, and storage architectures that support 24/7 sustained operation at a fraction of existing best-of-breed operational cost.

Coordinated data management and research aspects of the Center's large research initiatives. Established and oversees the core research technology infrastructure, and advised on technology direction. Architect of the Center's cyberinfrastructure and cyberenvironments that underlie its global distributed workforce.

RiverWeb Project

2005-2006   **Project Manager**

Coordinated all aspects of the RiverWeb project and led technical development. Designed and developed the digital library system that manages RiverWeb digital content and coordinated the digitization of a number of new works. Acted as project technical liaison for several local, regional, and national I-CHASS collaborations.

Gamacles Software Corporation

1995-2001   **Company Co-Founder**

Founded Gamacles Software Corporation to commercially distribute hypertext markup language authoring software. Responsible for all aspects of day-to-day operation, including technical, marketing, and business operations. Managed global sales and distributed reseller programs. Developed the UC HTM Web-authoring suite, the Vision dynamic Web content creator, and the Image Protect electronic copyright protection technologies.

Awards and Recognition

2018   Invited Opening Keynote at Special Libraries Association Arabian Gulf Chapter in Muscat, Oman.
2017   Presented At Web Summit. Named as 2017-2019 Senior Fellow at The George Washington University's Center for Cyber & Homeland Security. Selected For United Nations Data For Climate Action Challenge.

2016   USAID Wildlife Crime Tech Challenge Winner. Iteration XI: Macroscopes for Interacting with Science. Places & Spaces Mapping Science. Charleston Library Conference Invited Keynote.

2015   Computerworld Data+ Editors' Choice Award Winner. Invited Speaker At Chatham House. Senior Fellow at the George Washington University Center for Cyber & Homeland Security. Google Developer Expert for Google Cloud Platform.

2014   Named as a Council Member of the World Economic Forum's Global Agenda Council on the Future of Government. Selected for the 2014 National Academies Keck Futures Initiative, Collective Behavior: From Cells to Societies. Winner ACM WebSci 2014 Data Challenge.

2013   Yahoo! Fellow in Residence of International Values, Communications Technology & the Global Internet at the Institute for the Study of Diplomacy in the Edmund A. Walsh School of Foreign Service at Georgetown University in Washington, DC. Named as one of Foreign Policy magazine's Top 100 Global Thinkers of 2013.

2012   TEDxTallinn speaker and Invited Opening Keynote at the International Internet Preservation Consortium 2012 General Assembly at the Library of Congress. Awarded the Josie B. Houchens Fellowship, the University of Illinois Fellowship, the Boyd Rayward Fellowship, the Irwin Fellowship, and named a Google CrisisMappers Fellow. Awarded the 2012 HPCWire Editor's Choice Award for 'Best use of HPC in 'edge HPC' application." Selected for the 2012 National Academies Keck Futures Initiative, The Informed Brain in a Digital World.

2011   Culturomics 2.0 study selected by The Economist as one of just five science discoveries deemed the most significant developments of 2011 that will "shape the year ahead." Also selected by ReadWriteWeb as one of the "best of" 2011 and one of the "fundamental issues that continue to shape the Web" and elected to the Netexplo 100, honoring the top 100 most "futuristic applications on the verge of science fiction."

2010   Invited Speaker/Discussant at the Library of Congress Citizen Journalism Summit

2009   University of Illinois Graduate Scholar in Entrepreneurship. Interviewed in Que Leer Magazine. Recognized by National Society of Women Engineers History Award

2008   University of Illinois Society of Women Engineers Award

2007   Champaign Rotary Club Presenter

2006   IEEE VR 2007 Paper Reviewer

2005   Featured Student-Entrepreneur in the 2005 Kauffman Thoughtbook

2004   University Of Illinois Certificate of Appreciation

2003   Corecipient of NCSA Industrial Grand Challenge Award

2002   Corecipient of NCSA PSP Technology Development Award. Featured Student in Fortune Magazine article on Technology in Campuses

2001   University of Illinois Student Employee of the Year (first-ever freshman)

2000   National Merit Finalist

Patents and Intellectual Property Disclosures

Undergraduate research resulted in three US patents awarded (US7555472, US7650335, US7716352) cited by a combined 89 other issued US patents from companies including Accenture, Apple, Amazon, Business Objects, Canon, Google, Hitachi, IBM, Microsoft, Motorola, Oracle, Raytheon, Ricoh and SalesForce. Ranked in top 120 University of Illinois researchers in its history in number of issued US patents.

More than 50 Invention Disclosures to the University of Illinois Office of Technology Management based on undergraduate and graduate research. Ranked #1 among all University of Illinois researchers in its history in total number of Invention Disclosures.

Research Support

2018   Google. *GDELT in Google Cloud.*
2017   Google. *GDELT in Google Cloud.*
2016   USAID/National Geographic Society / Smithsonian Institution / TRAFFIC. Wildlife Crime Tech Challenge Winner. *A Real-time Global Platform for Mapping, Forecasting, and Network Assessment of Wildlife Crime.* (Principle Investigator)
2016   Google Ideas. *GDELT in Google Cloud.*

2015   Google Ideas. *GDELT in Google Cloud.*
2014   Google Ideas. *GDELT in Google Cloud.*
2013   Google Translate for Research. *Incorporating the Non-English Perspective on Global Behavior and Beliefs into GDELT and Identifying the Challenges of Event Extraction from Machine Translated Text.* (Principle Investigator)
2013   Folke Bernadotte Akademin (Swedish Agency for Peace, Security and Development). *Media Reporting on Rape in War.* $50,000 (Senior Personnel / Monica Duffy Toft PI).
2013   Georgetown University Edmund A. Walsh School of Foreign Service. *Yahoo! Fellow in Residence of International Values, Communications Technology & the Global Internet.*
2013   Folke Bernadotte Akademin (Swedish Agency for Peace, Security and Development). *Rape in Congo: A Unique or Paradigmatic Case?: UNSCR 1325 Research.* $20,000 (Senior Personnel / Monica Duffy Toft PI)
2013   The National Academies. *Your Brain on Dashboards: Data & Decisions.* $50,000.
2013   The National Academies. *Lifelong Learning Locker, Life-Sciences Linker: Adaptive Learning, Content Management, Framework for Lifelong Learning and to Promote Innovation and Research Collaboration.* $100,000 (Co-PI / Debra Weiner PI)
2012   Google. *Google CrisisMappers Fellow.* Travel support to ICCM2012 at the World Bank.
2012   National Science Foundation. *Computationally Exploring the Underpinnings of the Civil War and Views on the South Using a Billion-Page Digitized Book Archive.* 30,000 Service Units (SU) (XSEDE Computational Startup Grant: PSC Blacklight SGI UV1000) (Senior Personnel / Vernon Burton PI)
2013   University of Illinois Graduate School of Library and Information Science. *Irwin Fellowship.*
2012   University of Illinois Graduate School of Library and Information Science. *University of Illinois Fellowship.*
2012   University of Illinois Graduate School of Library and Information Science. *Boyd Rayward Fellowship.*
2012   University of Illinois Graduate School of Library and Information Science. *Josie B. Houchens Fellowship.*
2012   IARPA. *Open Source Indicators Program: Forecasting Global Unrest Through Emotional Discourse Undercurrents.* $450,000. (Principle Investigator)
2011   Fortune 500 Company. *Data Horizons: Rethinking Corporate Data Modeling and Applying Novel Data Mining Approaches to Forecasting Consumer Behavior.* $300,000 (Principle Investigator)
2011   Fortune 500 Company. *Data Horizons: Rethinking Corporate Data Modeling and Applying Novel Data Mining Approaches to Forecasting Consumer Behavior.* $50,000 (Principle Investigator)
2011   National Science Foundation. *The GlobalNet Project: Modeling Global Society Through The Media.* 1,000 Service Units (SU) (XSEDE/Teragrid Computational Startup Grant: SDSC Gordon Flash Disk system) (Principle Investigator)
2011   National Science Foundation. *The GlobalNet Project: Modeling Global Society Through The Media.* 160,000 Service Units (SU) (XSEDE/Teragrid Computational Startup Grant: NICS Nautilus SGI UV1000) (Principle Investigator)
2011   Hewlett Foundation. *Reimagining Science and Technology Journalism in the 21st Century with Data-Driven Computational Inquiry.* (co-Principle Investigator)
2010   United States Army Corps of Engineers. *Natural Resources, Climate Change, and Societal Stability: Evaluating the Impact of Human Interventions.* $106,000 (co-Principle Investigator)

Co-Principle Investigator or Senior Personnel on over $6M of additional federal, foundation, and corporate-sponsored research.

Teaching

2014   *MSFS 546 Big Data Analytics and Global Diplomacy.* Master of Science in Foreign Service (MSFS) program in the Georgetown University Edmund A. Walsh School of Foreign Service. Spring 2014. The course was Georgetown's first comprehensive "big data" course.
2013   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* Lipari School on Computational Social Science, Jacob T. Schwartz International School for Scientific Research. July 20-27, 2013.

Publications (*=Invited)

2018   *Why Google's Inclusive Images Challenge Is So Important.* Forbes. September 11, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/11/why-googles-inclusive-images-challenge-is-so-important/

2018   *Why Facebook's New User Trustworthiness Scores Are So Frightening.* Forbes. September 10, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/10/why-facebooks-new-user-trustworthiness-scores-are-so-frightening/

2018   *What Does It Mean To Live Our Entire Lives Under Digital Surveillance?* Forbes. September 10, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/10/what-does-it-mean-to-live-our-entire-lives-under-digital-surveillance/

2018   *Why Government And Social Media Platforms Must Cooperate To Fight Misinformation.* Forbes. September 9, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/09/why-government-and-social-media-platforms-must-cooperate-to-fight-misinformation/

2018   *Why Digital Signatures Won't Prevent Deep Fakes But Will Help Repressive Governments.* Forbes. September 9, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/09/why-digital-signatures-wont-prevent-deep-fakes-but-will-help-repressive-governments/

2018   *Is Social Media Content Moderation An Impossible Task?* Forbes. September 8, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/08/is-social-media-content-moderation-an-impossible-task/

2018   *Why We Still Need Human Moderators In An AI-Powered World.* Forbes. September 8, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/08/why-we-still-need-human-moderators-in-an-ai-powered-world/

2018   *'Deep Fakes' and the Fight for Truth Online.* RealClearPolitics. September 6, 2018. https://www.realclearpolitics.com/articles/2018/09/06/deep_fakes_and_the_fight_for_truth_online.html

2018   *How Smartphones And Social Media Taught Us It's Ok To Be Paparazzi.* Forbes. September 5, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/05/how-smartphones-and-social-media-taught-us-its-ok-to-be-paparazzi/

2018   *Social Media's Opaque Response to Conservative-Bias Charges.* RealClearPolitics. September 4, 2018. https://www.realclearpolitics.com/articles/2018/09/04/social_medias_opaque_response_to_conservative-bias_charges_137975.html

2018   *Customer Service In The Social Media Era: Complain Publicly Or Get Nothing.* Forbes. September 4, 2018. https://www.forbes.com/sites/kalevleetaru/2018/09/04/customer-service-in-the-social-media-era-complain-publicly-or-get-nothing/

2018   *Why Facebook's Financial Services Interest Tells Us The Era Of Privacy Is Over.* Forbes. August 31, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/31/why-facebooks-financial-services-interest-tells-us-the-era-of-privacy-is-over/

2018   *Will AI-Powered Law Enforcement Force Us To Rewrite Our Laws?* Forbes. August 13, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/13/will-ai-powered-law-enforcement-force-us-to-rewrite-our-laws/

2018   *Social Science One And How Top Journals View The Ethics Of Facebook Data Research.* Forbes. August 13, https://www.forbes.com/sites/kalevleetaru/2018/08/13/social-science-one-and-how-top-journals-view-the-ethics-of-facebook-data-research/2018.

2018   *Will Facebook's New Research Initiative Make The Replication Crisis Worse?* Forbes. August 12, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/12/will-facebooks-new-research-initiative-make-the-replication-crisis-worse/

2018   *In The Name Of Research, Will Facebook Stop Allowing Us To Delete Our Data?* Forbes. August 10, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/10/in-the-name-of-research-will-facebook-stop-allowing-us-to-delete-our-data/

2018   *Academics Continue Their Attacks On Facebook's New Privacy Rules.* Forbes. August 9, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/09/academics-continue-their-attacks-on-facebooks-new-privacy-rules/

2018   *Why Don't Web Companies Like Medium Want to Talk About How They Use Our Data?* Forbes. August 8, 2018. https://www.forbes.com/sites/kalevleetaru/2018/08/08/why-dont-web-companies-like-medium-want-to-talk-about-how-they-use-our-data/

2018   *Profit Versus Privacy: Facebook's Stock Collapse And Its Empty 'Privacy First' Promise*. Forbes. July 29, 2018. https://www.forbes.com/sites/kalevleetaru/2018/07/29/profit-versus-privacy-facebooks-stock-collapse-and-its-empty-privacy-first-promise/

2018   *Is There Recourse When Fact Checkers Get It Wrong?* RealClearPolitics. July 24, 2018. https://www.realclearpolitics.com/articles/2018/07/24/is_there_recourse_when_fact_checkers_get_it_wrong_137599.html

2018   *Failure Of Imagination: Why Facebook's New Academic Data Initiative Is So Dangerous*. Forbes. July 21, 2018. https://www.forbes.com/sites/kalevleetaru/2018/07/21/failure-of-imagination-why-facebooks-new-academic-data-initiative-is-so-dangerous/

2018   *Twitter's Great Bot Purge And Can We Really Trust Active User Numbers?* Forbes. July 21, 2018. https://www.forbes.com/sites/kalevleetaru/2018/07/21/twitters-great-bot-purge-and-can-we-really-trust-active-user-numbers/

2018   *Mapping Spies Through Fitness Trackers And Phones: Privacy Is Dead Even For Those In the Shadows*. Forbes. July 20, 2018. https://www.forbes.com/sites/kalevleetaru/2018/07/20/mapping-spies-through-fitness-trackers-and-phones-privacy-is-dead-even-for-those-in-the-shadows/

2018   *Facebook As The Ultimate Government Surveillance Tool?* Forbes. July 20, 2018. https://www.forbes.com/sites/kalevleetaru/2018/07/20/facebook-as-the-ultimate-government-surveillance-tool/

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2001   *EasyGlasses Multimedia Presentation.* Audio/Video Production, Visualization and Virtual Environments Group, National Center for Supercomputing Applications at the University of Illinois, Urbana- Champaign. January 10th, 2001. Video Production: Jeff Carpenter

2000   *The EasyDemo CAVE Users Guide.* Visualization and Virtual Environments Group, National Center for Supercomputing Applications at the University of Illinois, Urbana-Champaign. August 14th, 2000.

Presentations (*=Invited)

2018*   *Does Social Media Treat Conservatives Unfairly?* EWTN News Nightly. September 5, 2018. (INVITED).

2018*   *The State Of Facebook.* Lithuanian National Radio. August 8, 2018. (INVITED).

2018*   *Facebook As The Ultimate Government Surveillance Tool.* Florida Live. August 2, 2018. (INVITED).

2018*   *Facebook Scandal And User Data Security.* South Korea's This Morning With Alex Jensen. April 5, 2018. (INVITED).

2018*   *The Facebook & Cambridge Analytica Story.* Jimmy Sengenberger's Business For Breakfast. March 22, 2018. (INVITED).

2018*   *The Facebook & Cambridge Analytica Story.* Voice Of America. March 21, 2018. (INVITED).

2018*   *The Facebook & Cambridge Analytica Story.* Sky News. March 21, 2018. (INVITED).

2018*   *The Facebook & Cambridge Analytica Story.* CTV. March 19, 2018. (INVITED).

2018*   *Opening Keynote.* Special Libraries Association Arabian Gulf Chapter conference in Muscat, Oman. March 6, 2018. (INVITED).

2017*   *The GDELT Project.* TECH News. November 8, 2017. (INVITED).

2017*   *The GDELT Project.* Web Summit. November 8, 2017. (INVITED).

2017*   *Understanding The World Through Data.* Greater Good Gathering, Providence, Rhode Island. October 21, 2017. (INVITED).

2017*   *Opening Keynote: Understanding The World Through Data.* Bucknell University Digital Scholarship Conference. October 7, 2017. (INVITED).

2017*   *Using Cloud Vision To Watch The World's News Imagery In Realtime: The GDELT Project.* DevFestDC. Washington, DC. May 5-6, 2017. (INVITED).

2017*   *Zuckerberg's Facebook Manifesto.* Wharton Business Radio. February 27, 2017. (INVITED).

2016*   *The State Of 'Fake News'.* ABC News Live. Washington, DC. December 9, 2016. (INVITED).

2016*   *Quantifying, Visualizing, and Forecasting Global Human Society Through "Big Data": What it Looks Like To Compute on the Entire Planet.* Foreign Ministry of Estonia. Tallinn, Estonia. December 5, 2016. (INVITED).

2016*   *Reimagining Our World At Planetary Scale: The Big Data Future Of Our Libraries.* Charleston Library Conference. Charleston, SC. November 4, 2016. (INVITED).

2016*   *Wars Of Ideas And The Emerging World of Hybrid Cyber/Information Warfare.* World Affairs 2016. San Francisco, CA. October 28, 2016. (INVITED).

2016*   *A Look Inside The World's Largest Initiative To Understand And Archive The World's News.* Dodging the Memory Hole 2016: Saving Online News. UCLA Library, Los Angeles. October 13-14, 2016. (INVITED).

2016*   *Reimagining the World Through Data.* WebSearch University. Arlington, VA. September 13-14, 2016. (INVITED).

2016*   *Using GDELT To Track Global Wildlife Crime.* United States Presidential Task Force on Wildlife Trafficking Symposium. National Geospatial-Intelligence Agency. Washington DC. June 28-29, 2016. (INVITED).

2016*   *Opening Keynote: Reimagining The World Through Data.* Data Summit 2016, New York City. May 10-11, 2016. (INVITED / OPENING KEYNOTE).

2016*   *Visualizing, Modeling And Forecasting Global Human Society Through Massive Mining.* Modeling Science, Technology & Innovation Conference. National Academies. May 17-18, 2016. (INVITED).

2016*   *Visualizing, Modeling And Forecasting Global Human Society Through Massive Mining.* Cyberinfrastructure For Network Science Center Inaugural 2016 Talk. Indiana University. March 21, 2016. (INVITED).

2016*   *How GDELT Is Cataloging And Analyzing The Entire Planet.* Structure Data. San Francisco. March 9-10, 2016. (INVITED).

2016*   *Big Data: What It Looks Like To Compute On The Entire Planet.* Arizona State University. February 24, 2016. (INVITED).

2016*   *GDELT Updates 2015-2016.* US Department of Defense SMA Speaker Series. February 23, 2016. (INVITED).

2016*   *Infinite Stream of Content: How GDELT is Translating the World's News.* Slator: Language Industry Intelligence. January 27, 2016. (INVITED).

2016*   *GDELT Updates 2015-2016.* United States Army Special Operations Command (USASOC) Futures Forum. January 19, 2016. (INVITED).

2015*   *Interview: Nostradamus 21ˢᵗ Century Prophecies Revealed.* History Channel. First Airing December 30, 2015. (INVITED).

2015*   *Reimagining The World Through Data.* United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP) Big Data and the 2030 Agenda for Sustainable Development: Achieving the Development Goals in the Asia and the Pacific Region. Bangkok, Thailand. December 15, 2015. (INVITED).

2015*   *Opening Keynote: Financial Solutions With Large Datasets: "Big Data" Methods, Lessons, and Challenges.* Inter-American Development Bank Annual Summit. December 10, 2015. (INVITED / OPENING KEYNOTE).

2015*   *Visualizing, Modeling And Forecasting Global Human Society Through Massive Mapping.* GeoDC. December 8, 2015. (INVITED).

2015   *GDELT + BigQuery: Understanding global society through SQL.* O'Reilly Strata + Hadoop World. With Felipe Hoffa. December 3, 2015. Singapore.

2015*   *GDELT 2.0: Understanding the Global World in Realtime Through Local Voices.* Countering Transnational Threats Senior Executive Seminar: Understanding Perceptions and Countering Narratives. National Defense University. June 10, 2015. (INVITED).

2015*   *Reimagining The World Through Massive Mining Of The Internet Archive.* Internet Archive Annual Library Leaders Forum 2015. Internet Archive. October 22. (INVITED).

2015*   *Keynote: Reimagining The World Through Massive Mining Of The Internet Archive.* Internet Archive Annual Library Leaders Forum 2015. Internet Archive. October 21. (INVITED / EVENING KEYNOTE).

2015*   *Using Big Data To Study The World.* Data Skeptics New York. May 21, 2015. (INVITED).

2015*   *GDELT 2.0: Understanding the Global World in Realtime Through Local Voices.* United States Army Special Operations Command (USASOC) Futures Forum. May 19, 2015. (INVITED).

2015*   *Using Big Data To Understand Global Conflict.* Chatham House. April 24, 2015. (INVITED). Transcript available   at http://www.chathamhouse.org/sites/files/chathamhouse/field/field_document/15%202Q%20Big%20Data.pdf

2015*   *GDELT 2.0: Understanding the Global World in Realtime Through Local Voices.* World Bank Big Data For A More Resilient Future Symposium. World Bank Headquarters. April 16, 2015. (INVITED).

2015*   *GDELT 2.0: Understanding the Global World in Realtime Through Local Voices.* US Defense Science Board Meeting. April 7, 2015. (INVITED).

2015*   *GDELT 2.0: Understanding the Global World in Realtime Through Local Voices.* US Department of Defense SMA Speaker Series. March 25, 2015. (INVITED).

2015*   *Opening Keynote: The User of the Future: Reimagining How We Think About Information.* National Federation of Advanced Information Services (NFAIS) Annual Conference. February 23, 2015. (INVITED).

2015   *Encoding the World's Socio-Cultural Knowledge.* National Defense Industrial Association (NDIA) Human Systems Conference. February 10, 2015.

2015*   *Reimagining Libraries as Conveners of Information and Innovation.* Web Archiving: Preserving the History of Data-Driven Society. National Library of Estonia. January 29, 2015. (INVITED).

2015*   *GDELT & Open Source Information for Big Data & Human Rights.* AAAS Science & Human Rights Coalition Meeting. January 15, 2015. (INVITED).

2014*   *How Big Data is Reshaping Our Understanding of the World.* Institute of International Finance. December 16, 2014. (INVITED).

2014*   *Google BigQuery in Action: Computing on the Whole Planet with the GDELT Project.* Google Developer Group DevFestDC 2014. November 22, 2014. (INVITED).

2014*   *Opening Keynote: How Big Data is Reshaping Our Understanding of the World.* Center for Global Development Annual Conference. November 18, 2014. (INVITED / OPENING KEYNOTE).

2014*   *Office of the Chief Data Officer Speaker Series: How Big Data is Reshaping Our Understanding of the World.* United States Federal Reserve Board of Governors. November 6, 2014. (INVITED).

2014*   *A Global View of Protest Trends Through GDELT.* Carnegie Council and Friedrich Ebert Stiftung (FES) Conflict or Protest Conference. November 5, 2014. (INVITED).

2014*   *A Global View of Society Through GDELT and Open Information.* US Department of Defense Strategic Multi-Layer Assessment Conference: A New Information Paradigm? From Genes to 'Big Data' and Instagram to Persistent Surveillance…Implications for National Security.   Joint Base Andrews. October 29, 2014. (INVITED).

2014*   *Voices of the Next Generation: Kalev Leetaru.* Council on Foreign Relations. October 27, 2014. (INVITED).

2014*   *Seeing The World Through the Eyes of Massive Data.* Google, NSF, Opower and Neustar: The Big Impact of Big Data – Data Innovation DC. October 25, 2014. (INVITED).

2014*   *GDELT and Understanding the World Through Massive Data.* The Wharton School. October 24, 2014. (INVITED).

2014*   *GDELT and Understanding the World Through Massive Data.* The Wharton School. October 18, 2014. (INVITED).

2014*   *A Global View of Society Through GDELT and Open Information.* The United Nations. October 11, 2014. (INVITED).

2014*   *Measuring and Evaluating the Impacts of Interventions Through Open Data.* M&E Tech: The Future of Monitoring, Evaluation, and Technology in Development Conference. September 26, 2014. (INVITED).

2014*   *A Global View of Society Through GDELT and Open Information.* National Academy of Engineering & United States Institute of Peace PeaceTech Summit: Engineering Durable Peace.   September 20, 2014. (INVITED).

2014*   *A Global View of Society Through GDELT and Open Information.* USAID Second Annual Frontiers in Development Conference. September 20, 2014. (INVITED).

2014*   *A Global View of Protest Trends Through GDELT.* Global Protest Trends Conference. Higher School of Economics in Moscow. September 20, 2014. (INVITED).

2014*   *What It Takes to Compute on the Whole World.*   Wolfram Data Summit 2014.   September 4-5, 2014. (INVITED).

2014*   *Keeping Pace with Big Data.* Atlantic Media's Nextgov. (With Micheline Casey, Chief Data Officer Of The Federal Reserve). August 19, 2014. (INVITED).

2014*   *Keeping Pace with Big Data.* Atlantic Media's Nextgov. (With Micheline Casey, Chief Data Officer Of The Federal Reserve). August 19, 2014. (INVITED).

2014*   *Understanding Our World Through Massive Data.* Science at the United States – Africa Leader's Summit. National Press Club. August 4, 2014. (INVITED).

2014*   *Advisory Meeting On The Creation Of The New Applied Analytics Program At Columbia University.* Columbia Universty. August 1, 2014. (INVITED).

2014*   *Data Journalism and Policymaking: A Changing Landscape.* The Woodrow Wilson Center. July 30, 2014. (INVITED).

2014*   *A Realtime "Big Data" View of the Entire Planet: The GDELT Project.* US Department of Defense SMA Speaker Series. May 2, 2014. (INVITED).

2014*   *The GDELT Project as Innovation Meets Big Data.* 2014 Wharton DC Innovation Summit. April 30, 2014. (INVITED).

2014*   *Behind the Scenes of Really Big Data: What it Takes to Compute on the Whole World.* Data DC. April 22, 2014. (INVITED).

2014*   *The GDELT Project: A Global Societal-Scale Realtime Dashboard.* GEOINT 2014. April 14, 2014. (INVITED). (Presented by Mike Williams).

2014*   *Emphasizing Open Source and Analytic Tradecraft (Panel V: The Evolution of International Surveillance: Spycraft in the Modern Era).* The Georgetown Diplomacy and International Security Conference. April 11, 2014. (INVITED).

2014*   *From Big Data to Global Diplomacy: Today and Tomorrow.* The 2014 Yahoo Conference. Georgetown University. April 2, 2014. (INVITED).

2014*   *Using Societal-Scale Big Data to Understand, Visualize, and Forecast the World Around Us.* FRANK 2014 Conference for Social Change Communicators. Gainesville, FL. February 26-28, 2014. (INVITED).

2014*   *From Words to Insights: Rethinking Content and Big Data.* Giving Voice to Content: Re-envisioning the Business of Information: NFAIS 2014 Annual Conference. Philadelphia, PA. February 23, 2014. (INVITED / OPENING DAY PRESENTATION).

2014*   *From Provider to Partner: The Changing Role of Libraries in Data Mining.* Center for Research Libraries. February 19, 2014. (INVITED).

2013*   *The GDELT Project.* GDELT Washington DC Hackathon Hosted by Gallup. Washington, DC. December 18, 2013. (INVITED).

2013*   *Understanding our World and Through Big Data.* GDELT Washington DC Hackathon Hosted by Gallup. Washington, DC. December 18, 2013. (INVITED).

2013*   *The Global Conversation.* Foreign Policy Magazine's Top 100 Global Thinkers of 2013 Gala. Washington, DC. December 11, 2013. (INVITED).

2013*   *Counter-terrorism, Surveillance and Human Rights.* Annual Conference on Human Rights 2013: Human Rights and Freedom to Association. Tallinn, Estonia. December 10, 2013. (INVITED).

2013*   *Big Data, Global Diplomacy And Our Digital Hearthbeat.* Georgetown University School Of Foreign Service. Georgetown University. November 13, 2013. (INVITED).

2013*   *Understanding our World Through Big Data.* Social Media and Digital Maturity: Implications for National Security. Centre of Excellence for National Security, Nanyang Technological University. Singapore. October 30, 2013. (INVITED).

2013*   *Data for Diplomacy & Crises.* Digital Diplomacy Coalition + Social Good Forum. Washington, DC. October 25, 2013. (INVITED).

2013*   *Mapping the Geography of American Television News.* Internet Archive Annual Gala. San Francisco, CA. October 24, 2013. (INVITED). (Presented by Roger Macdonald).

2013*   *Understanding our World and Digital Diplomacy Through Big Data.* Georgetown Leadership Seminar. October 23, 2013. (INVITED).

2013   *Reporting Rape in Congo: A Unique or Paradigmatic Case?* (With Summer Lindsey and Monica Toft). UNSCR 1325 Research Working Group Meeting, London. October 21-22, 2013.

2013*   *Gaza Goes Viral: An Analysis of Influence.* (Technical Adviser / GNIP Lead). Conflict in a Connected World. Google Ideas, Council on Foreign Relations and the Gen Next Foundation. New York City. October 20-22. (http://www.youtube.com/watch?v=unpgN2RmvbM) (INVITED).

2013*   *Understanding our World and Through Big Data.* Video presentation for Silicon Graphics. Supercomputing 2013. Denver, Colorado. October 19, 2013. (INVITED).

2013*   *Computational Content Analysis.* Georgetown Quantitative Models Working Group. October 9, 2013. (INVITED).

2013*   *Understanding our World and Digital Diplomacy Through Big Data.* Canadian Foreign Ministry Innovation Week. Canadian Foreign Ministry. Ottawa, Canada. October 7, 2013. (INVITED).

2013*   *Understanding our World Through Big Data.* John Deere Big Data Summit. October 2, 2013. (INVITED).

2013*   *GDELT: Global Data on Events, Language, and Tone.* Pennsylvania State University GDELT Hackathon. September 27, 2013. (INVITED).

2013*   Participant in *A Secure and Free Internet.* United Nations General Assembly. September 23, 2013. New York City. (INVITED).

2013*   *GDELT: Real-Time Automated Global Behavior and Beliefs Mapping, Modeling, and Forecasting Using Hundreds of Millions of Events.* 2013 National Geospatial Agency Academic Research Program (NARP) Symposium and Workshops. National Academy of Sciences Keck Center. September 10, 2013. (INVITED).

2013*   *An Open Source Perspective on Megacities.* (Participant Remarks for Human Geography Megacities Roundtable). 2013 National Geospatial Agency Academic Research Program (NARP) Symposium and Workshops. National Academy of Sciences Keck Center. September 10, 2013. (INVITED).

2013*   *GDELT: Real-Time Automated Global Behavior and Beliefs Mapping, Modeling, and Forecasting Using Hundreds of Millions of Events.* Wolfram Big Data Summit. September 5-6, 2013. (OPENING RESEARCH PRESENTATION / INVITED).

2013*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* Lipari School on Computational Social Science, Jacob T. Schwartz International School for Scientific Research. July 20-27, 2013. (INVITED).

2013*   *How Can Forecasting of Risks of Mass Atrocities be Improved – Big Data Approaches.* Workshop on Early Warning about Mass Atrocities Against Civilians, US Agency for International Development (USAID). July 11, 2013. (INVITED).

2013*   *Pioneers in Mining Electronic News for Research.* Center for Research Libraries (CRL), Newberry Library. June 27, 2013. (http://www.crl.edu/focus/article/9556) (OPENING KEYNOTE / INVITED).

2013*   *Introduction to the Global Database of Events, Language, and Tone (GDELT).* World-Wide Human Geography Data Working Group. June 26, 2013. (INVITED).

2013*   *GDELT.* DARPA Information Science and Technology (ISAT) Economic Science Workshop. Defense Advanced Research Projects Agency (DARPA). June 17, 2013. (INVITED).

2013*   *GDELT: Tracking Global Political History.* CNBC. May 31, 2013. (INVITED).

2013*   *The Sphere of Influence: Visualizing Spatio-Temporal Communication Networks of Declassified Global Diplomatic Cable Traffic.* Columbia University: The Declassification Engine Conference. May 10, 2013. (INVITED).

2013*   *Mapping, Modeling, Monitoring, Early Warning, and Forecasting of Global Conflict.* Stanford University / US Institute of Peace: Blogs & Bullets Workshop on Syria. Stanford University. April 17, 2013. (INVITED).

2013*   *What Can Big Data Do For You?* TEDxUIUC. April 7, 2013. (INVITED). (http://www.ted.com/tedx/events/6885) (http://www.youtube.com/watch?v=bb0RG63BVnk)

2013   *GDELT: Global Data on Events, Language, and Tone, 1979-2012.* International Studies Association Annual Conference. April 3, 2013. (Phil Schrodt presenting)

2013*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society Through Information Production and Consumption.* University of Texas at Austin iSchool Research Colloquium. March 4, 2013. (INVITED).

2013*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society Through Information Production and Consumption.* University of Maryland iSchool Research Colloquium. February 28, 2013. (INVITED).

2013*   *The Global Twitter Heartbeat: Visualizing our Global Dreams and Fears In Realtime Through Twitter.* University Webmasters Series. University of Illinois. January 30, 2013. (INVITED).

2012*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* Council on Foreign Relations Center for Preventive Action Workshop on Social Media and Conflict Prevention. Washington, DC, December 12, 2012. (INVITED).

2012*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* Big Data Analytics 2012: London, United Kingdom, December 6, 2012. (INVITED).

2012*   *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* United Kingdom Science & Technology Facilities Council (STFC) Unleash the Power of Big Data Conference: Daresbury, United Kingdom, December 4, 2012. (INVITED).

2012* *Using "Big Data" to Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Forecasting Global Society.* UCI Evoke Laboratory, Intel Science and Technology Center for Social Computing, and the Center for Machine Learning and Intelligent Systems Speaker Series. University of California at Irvine. November 30, 2012. (INVITED).

2012 *National Academies Keck Futures Initiative – The Informed Brain in a Digital World.* National Academies Keck Futures Initiative 2012. Beckman Institute: Irvine, CA, November 14-17, 2012.

2012* *The Big Data Future.* SGI Innovators Breakfast: November 14, 2012, Salt Lake City, UT. (INVITED).

2012* *The Global Twitter Heartbeat.* SGI Theater at Supercomputing 2012: November 12-14, 2012, Salt Lake City, UT. (INVITED).

2012* *Realtime Automated Monitoring of Global Information Streams for Crisis Situational Awareness, Early Warning, and Forecasting.* International Crisis Mapping Conference (ICCM2012). World Bank: Washington, DC, October 11-14, 2012. (INVITED).

2012* *Mapping For Realtime Automated Global Crisis Mapping and Subnational Global Risk Forecasting.* International Crisis Mapping Conference (ICCM2012). World Bank: Washington, DC, October 11-14, 2012.

2012* *Towards HPC for the Digital Humanities, Arts, and Social Sciences: Needs and Challenges of Adapting Academic HPC for Big data.* IEEE 8th International Conference on eScience. Chicago, Illinois: October 8-12, 2012.

2012* *Happy or Not: Generating Topic-Based Emotional Heatmaps for Culturomics Using CyberGIS.* Shook, Eric; Leetaru, Kalev; Cao, Guofeng; Padmanabhan, Anand; Wang, Shaowen. IEEE 8th International Conference on eScience. Chicago, Illinois: October 8-12, 2012.

2012* *Using "Big Data" To Understand the World Around Us: Towards Realtime Modeling, Monitoring, and Understanding of Global Perception of Energy, the Environment, and Climate Change.* University of Texas at Austin Jackson School of Geosciences Decision Pathways Guest Lecture. September 24, 2012. (INVITED).

2012* *Towards Realtime Modeling, Monitoring, and Forecasting of Global Societal Unrest Using Hundreds of Millions of Events.* PSU Big Data Social Science Speaker Series. September 17, 2012. (INVITED).

2012* *Showcase Presentation: A CyberGIS Approach to Digital Humanities and Social Sciences: The World of Textual Geography and a Case Study of Wikipedia's History of the World.* Leetaru, Kalev; Shook, Eric; Wang, Shaowen. The First International Conference On Space, Time, and CyberGIS. Urbana, Illinois: August 6-9, 2012. (SHOWCASE PRESENTATION).

2012 *Remotely Assessing Local Populations Through Spatial Media Analysis.* Leetaru, Kalev; Ehlschlaeger, Charles; Burkhalter, Jeffrey; Drigo, Marina. The First International Conference On Space, Time, and CyberGIS. Urbana, Illinois: August 6-9, 2012.

2012* *GISolve Open Service APIs for CyberGIS Software Integration: Wikipedia Case Study.* Liu, Yan; Shook, Eric; Leetaru, Kalev. The First International Conference On Space, Time, and CyberGIS. Urbana, Illinois: August 6-9, 2012. (INVITED).

2012* *Towards a CyberGIS Model for the Digital Humanities and Social Sciences.* University of Illinois Best Practices for CyberGIS Series: July 19, 2012. With Shaowen Wang. (INVITED).

2012* *Behind the Scenes: The Making of the SGI Wikipedia Project.* Webinar Hosted by SGI: July 11, 2012. (INVITED).

2012* *SGI UV2: Exploring Big Data at the Speed of Big Data.* SGI: July 15, 2012. (INVITED).

2012* *The Science of Forecasting Unrest Through Modeling Population-Scale Emotional Responses.* Hertog Global Strategy Initiative Digital Scholarship Workshop. Columbia University, New York, New York: June 1-2, 2012. (INVITED).

2012* *TEDx: Culturomics 2.0: Forecasting The Future Through Global Media.* TEDxTallinn 2012. Tallinn, Estonia: May 4, 2012. (INVITED / TEDx).

2012* *Keynote Address: A Decade and a Half of Archiving the Web for Data Mining: Lessons Learned and How Users Use Web Archives.* International Internet Preservation Consortium 2012 General Assembly. Library of Congress, Washington, DC: April 30 – May 4, 2012. (INVITED / KEYNOTE). (An expanded version of this talk appeared as a three-day invited guest blog post on the Library of Congress Digital Preservation blog and as an IIPC Report).

2012* *Culturomics 2.0: Forecasting The Future Through Global Media.* University of Illinois Executive MBA Program. Chicago, IL: April 27, 2012. (INVITED).

2012* *Closing Keynote: Culturomics 2.0: Forecasting The Future Through Global Media.* InTTENSITY Federal Social Media Summit Washington, DC: April 24, 2012. (INVITED / CLOSING KEYNOTE).

2012* *Opening Keynote: Culturomics 2.0: Forecasting The Future Through Global Media Using Large-Memory SGI Supercomputers.* Silicon Graphics Annual Conference 2012 (SGIUG 2012). Orlando, Florida: April 17-19, 2012. (INVITED / OPENING KEYNOTE).

2012*   *Introductory Keynote: Culturomics 2.0: Forecasting The Future Through Global Media.* Big Data Week. April, 2012. (INVITED / INTRODUCTORY KEYNOTE).

2012*   *Culturomics 2.0: Forecasting The Future Through Global Media.* University of Illinois Master of Science in Technology Manager Speaker Series. April 6, 2012. (INVITED).

2012*   *Culturomics 2.0: Forecasting The Future Through Global Media.* University of Illinois Graduate School of Library and Information Science Annual Research Showcase. March 30, 2012. (INVITED).

2012*   *Culturomics 2.0: Forecasting The Future Through Global Media.* The Rotary eClub of Verkkorotary, Rotary Finland (District 1420). February 14, 2012. (INVITED).

2011   *Culturomics 2.0 and the Petascale Humanities.* Leetaru, Kalev. (December 3, 2011). Humanities, Arts, Science, and Technology Advanced Collaboratory (HASTAC) Annual Conference. Ann Arbor, Michigan. December 1-3, 2011.

2011   *Supporting Humanities Research on XSEDE.* Cai, Dora; Leetaru, Kalev; Sinkovits, Robert. (December 3, 2011). Humanities, Arts, Science, and Technology Advanced Collaboratory (HASTAC) Annual Conference. Ann Arbor, Michigan. December 1-3, 2011.

2011*   *Culturomics 2.0: Forecasting The Future Through Global Media.* (November 9, 2011). IAB Poland (Internet Poland Conference & Expo). Warsaw, Poland. November 8-9, 2011 (INVITED).

2011*   *Culturomics 2.0: Petascale Humanities Computing.* (October 25, 2011). National Endowment for the Humanities (NEH). (INVITED).

2011*   *Culturomics 2.0: Forecasting Large-Scale Human Behavior Using Global News Media Tone in Time and Space.* Champaign-Urbana Software User Group. Champaign, IL. October 12, 2011. (INVITED).

2011   *Assessment of Public Attitudes Towards the Terminology of CCS.* Leetaru, Kalev & Leetaru, Hannes. (September 2011). American Association of Petroleum Geologists (AAPG) Eastern Section Annual Meeting. Washington, DC. September 25-27, 2011.

2011*   *Modeling Global Societal Evolution over a Half-Century: Petascale Humanities Computing.* (August 11, 2011). Gordon Summer Institute. San Diego Supercomputing Center, San Diego, CA. August 8-12, 2011. (INVITED).

2011   *Assessment of Public Attitudes Towards the Terminology of CCS.* Leetaru, Kalev & Leetaru, Hannes. (May 2011). Tenth Annual Conference on Carbon Capture & Sequestration.

2011*   *Understanding Our World Through Data.* (March 25, 2011). Dominican University Engineering Keynote. San Rafael, CA. (INVITED)

2011   *Do We Have a Stake in This War? A Worldwide Test of the In-Group Out-Group Hypothesis Using Open-Source Intelligence* with Scott Althaus. International Studies Association Annual Convention 2011: Global Governance: Political Authority in Transition. Montreal, Canada. March 16-19, 2011.

2011   *Event Data, Civil Unrest and the Social, Political and Economic Event Database (SPEED) Project: Post World War II Trends in Political Protests and Violence* with Peter Nardulli and Matthew Hayes. International Studies Association Annual Convention 2011: Global Governance: Political Authority in Transition. Montreal, Canada. March 16-19, 2011.

2010*   *Global News Analysis: Understanding our World Through News.* Library of Congress. Washington, DC. November 3, 2010. (INVITED)

2010*   *Social Intelligence: The CIA Approach to Corporate Intelligence.* Network of Academic Corporate Relations Officers (NACRO) Annual Conference. Urbana, Illinois. August 10-12, 2010. (INVITED).

2010*   *How Your Company Can Benefit From Social Media.* (July 21, 2010). University of Illinois Research Park. (INVITED)

2010*   *Climate Change, Natural Disasters and Civil Unrest: A Quasi-experiment and Beyond,* with Peter Nardulli. Climate Change and Security: the 250th Anniversary Conference of The Royal Norwegian Society of Sciences and Letters (DKNVS), Trondheim, Norway, June 21-24, 2010. (INVITED).

2010*   *On the Interpretability of Law: Lessons from the Decoding of National Constitutions,* with James Melton, Zachary Elkins, and Tom Ginsburg. Measuring the Rule of Law Conference. University of Texas at Austin. March 26-27, 2010. (INVITED).

2010*   *Citizen Journalism and Community News.* Library of Congress. Washington, DC. (2010). (INVITED).

2009*   *Open Sources and Foreign Media Analysis: Translation at a Global Scale.* Center for Translation Studies. Invited Guest Lecture, Urbana, Illinois, December 1, 2009. (INVITED)

2009*   *Community Engagement Guidelines for Carbon Capture and Sequestration.* World Resources Institute. Washington, DC. (2009). (INVITED).

2009*   *User Interfaces and Information Design for Large-Scale Information Systems.* Design of Usable Information Interfaces (LIS351A) Invited Guest Lecture, Urbana, Illinois, November 30, 2009. (INVITED)

2009*   *Digital Media Management and Large-Scale Digitization and Digital Access: the UIPhotos and UIHistories Projects.* College of Business Office for Information Management (OIM) Brown Bag Seminar Series. University of Illinois, Urbana, Illinois, October 26, 2009. (INVITED)

2009*   *UIPhotos/UIHistories/UITours: A History of the University of Illinois Buildings*, University of Illinois Know Your University (KYU) Lecture Series, Urbana, Illinois, October 20, 2009. (INVITED)

2009*   *Manual Crisis Mapping (MCM) & Automated Crisis Mapping (ACM): Hand-Coding, Participatory Mapping and Natural Language Processing.* First International Crisis Mapping Conference (ICCM2009). John Carrol University: Cleveland, Ohio, October 16-18, 2009. (INVITED).

2009*   *The SPEED Project, Automated Event Mining, and Conflict Early Warning.* First International Crisis Mapping Conference (ICCM2009). John Carrol University: Cleveland, Ohio, October 16-18, 2009. (INVITED).

2009*   *Automated Event Mining: Approaches and Practices.* First International Crisis Mapping Conference (ICCM2009). John Carrol University: Cleveland, Ohio, October 16-18, 2009. (INVITED).

2009*   *Collaborative Research In A "Big Data" World: Harnessing Advanced Collaborative Technology For Large-Scale Research.* College of Business Office for Information Management (OIM) Brown Bag Seminar Series. University of Illinois, Urbana, Illinois, October 8, 2009. (INVITED)

2009*   *Invited Participant/Discussant.* Soul of the New Machine: Human Rights, Technology & New Media. UC Berkeley, May 4-5, 2009. (INVITED)

2009*   *Airbrushing History, American Style*, with Scott Althaus. Invited Inaugural 2009 Know Your University (KYU) Presentation, University of Illinois, Urbana, Illinois, February 3, 2009. (INVITED)

2009*   *Metadata in the Digital World: From Libraries to Government.* University of Illinois Graduate School of Library and Information Science Metadata Roundtable, University of Illinois, Urbana, Illinois, January 28, 2009. (INVITED)

2008*   *User Interface Design in the Computational Social Sciences and the Representation of Information Through Interface.* University of Illinois Graduate School of Library and Information Science Design of Usable Information Interfaces (LIS351A) Invited Guest Lecture, Urbana, Illinois, December 3, 2008. (INVITED)

2008*   *A Student's Perspective: A Crash Course in Career Seeking*, University of Illinois section of the Society of Women Engineers. University of Illinois at Urbana-Champaign, September 4, 2008. (INVITED)

2008*   *The SPEED Project and Conflict Early Warning*, with Peter Nardulli, Conflict Early Warning Workshop, Harvard University, Cambridge, Massachusetts, July 9-10, 2008. (INVITED)

2008*   *A Speaker's Guide to Painless and Successful Public Speaking*, University of Illinois GradSWE. University of Illinois at Urbana-Champaign, April 30, 2008. (INVITED)

2008*   *Protocol Development for SPEED*, with Peter Nardulli, Global Development, Information Technology, and the Frontiers of Knowledge: The SID Project, Chicago, Illinois, April 25, 2008. (INVITED)

2008*   *The Social, Political and Economics Events Database (SPEED): Introduction and Update*, with Peter Nardulli, Global Development, Information Technology, and the Frontiers of Knowledge: The SID Project, Chicago, Illinois, April 25, 2008. (INVITED)

2008*   *The SID Data Warehouse, Global Development, Information Technology, and the Frontiers of Knowledge*: The SID Project, Chicago, Illinois, April 25, 2008. (INVITED)

2008*   *A Speaker's Guide to Painless and Successful Public Speaking*, University of Illinois Busey-Evans Residence Hall. University of Illinois at Urbana-Champaign, April 22, 2008. (INVITED)

2008*   *A Student's Perspective: A Crash Course in Career Seeking*, University of Illinois College of Business MS- Tech Program. University of Illinois at Urbana-Champaign, April 14, 2008. (INVITED)

2008*   *A Student's Perspective: A Crash Course in Career Seeking*, University of Illinois section of Delta Delta Delta. University of Illinois at Urbana-Champaign, February 25, 2008. (INVITED)

2008*   *A Student's Perspective: A Crash Course in Career Seeking*, University of Illinois section of Alpha Phi. University of Illinois at Urbana-Champaign, February 5, 2008. (INVITED)

2008*   *A Student's Perspective: A Crash Course in Career Seeking*, University of Illinois section of the Society of Women Engineers. University of Illinois at Urbana-Champaign, February 5, 2008. (INVITED)

2007   *I-CHASS and RiverWeb: Technology and Outreach*, with James Onderdonk, Great Ideas Sessions, Outreach Scholarship Conference 2007, Madison, Wisconsin, October 7-9, 2007.

2007*   *News Archives, Advanced Information Technologies and Human Rights: An Event Analysis for the Post WW II Era*, with Peter Nardulli, Center for Human Rights Documentation & Research Conference, Columbia University, New York, New York, October 4-6, 2007. (INVITED).

2007*   *UIPhotos/UIHistories/UITours: A History of the University of Illinois Buildings*, The Rotary Club of Champaign, Illinois (District 6490), Urbana, Illinois, September 10, 2007. (INVITED)

2006*   *User Interface Design for Large-Scale Photo and Video Content Delivery Systems.* University of Illinois Graduate School of Library and Information Science Design of Usable Information Interfaces (LIS351A) Invited Guest Lecture, Urbana, Illinois, December 4, 2006. (INVITED)

2006   *Technology for Finding Funding for Emergency Preparedness & Response,* with Alan Craig, NCSA Private Sector Program Annual Meeting, Urbana, Illinois, June 20, 2006.

2006   *The use of data mining methods to evaluate public interest in carbon sequestration,* with Hannes Leetaru, NCSA Private Sector Program Annual Meeting, Urbana, Illinois, June 19, 2006.

2006*   *Data Mining and Interface for the Digital Humanities,* Apple Executive Briefing, Apple Computer, Cupertino, CA, May 17, 2006.

2006   *The use of data mining methods to evaluate public interest in carbon sequestration,* Fifth Annual Conference on Carbon Capture and Sequestration, Alexandria Mark Center, Alexandria, Virginia, May 8-11, 2006. (Poster presentation on CD-ROM proceedings as Poster 075).

2006*   *Cataloging a Campus: Information management lessons from the UIPhotos project, a collection of more than 60,000 images of the UIUC campus,* University of Illinois Mobile Mapping for Everyday Spaces Collaborative Initiative Presentation, Urbana, Illinois, February 24, 2006. (INVITED)

2006*   *The RiverWeb Project,* University of Illinois Faculty Retreat on Active Learning, Urbana, Illinois, February 10, 2006. (INVITED)

2006*   *Cataloging a Campus: Information management lessons from the UIPhotos project, a collection of more than 60,000 images of the UIUC campus,* University of Illinois Graduate School of Library and Information Science ASIS&T Inaugural Semester Presentation, Urbana, Illinois, January 26, 2006. (INVITED)

2005*   *New Internet Tools for Science Educators,* National Science Teachers Association Midwestern Regional Convention. Chicago, November 10, 2005. (INVITED)

2005*   *Animation of Air Flow and Pollutant Transmission in an Aircraft Cabin Using the CAVE,* with Yuanhui Zhang and Alan Craig, NCSA/University of Illinois Faculty Fellows 2005-2006 Opening/Keynote Seminar, Urbana, Illinois, September 15, 2005. (INVITED)

2005*   *Empowering Students and Educators: Bringing Technology to Non-Technologists,* with Alan Craig, University of Illinois College of Education, Urbana, Illinois, September 7, 2005. (INVITED)

2005   *Facilitating the Study of Prescriptive Language Behavior Through Automatic Database Building and Data Extraction,* with Douglas Kibbee and Alan Craig, 10th International Conference on the History of the Language Sciences, Urbana, Illinois, September 1, 2005.

2005*   *Empowering the Entrepreneur: Bringing the Power of Information Technology and the Web to the Entrepreneur,* with Alan Craig, Ewing Marion Kauffman Foundation, Kansas City, Missouri, May 10, 2005. (INVITED)

2005   *Content Management Total Productivity Suite: Tools to Empower Small Companies to Set Up and Maintain a Web Presence and Manage Critical Content,* with John McEntire and Alan Craig, Illinois Small Business Development Association 2005 Meeting, Springfield, Illinois, May 3, 2005.

2005*   *Facilitating the Study of Prescriptive Language Behavior Through Automatic Database Building and Data Extraction,* with Douglas Kibbee and Alan Craig, NCSA/University of Illinois Faculty Fellows Brown Bag, Urbana, Illinois, April 20, 2005. (INVITED)

2005*   *Empowering Students and Educators: Bringing Technology to Non-Technologists,* with Alan Craig, University of Illinois College of Education / NCSA Collaborations Seminar Series (Inaugural Presentation), Urbana, Illinois, March 29, 2005. (INVITED)

2005*   *Web Workshop,* University of Illinois section of the Society of Women Engineers. University of Illinois at Urbana-Champaign, March 2, 2005. (INVITED)

2005*   *Empowering the Arts and Humanities,* with Alan Craig, Seedbed Initiative for Transdomain Creativity Meeting, Urbana, Illinois, February 24, 2005. (INVITED)

2005   *ShadowLight: A Flexible Environment for Multipurpose Design and Evaluation,* IS&T / SPIE International Symposium on Electronic Imaging Science and Technology, San Jose, California, January 16-20, 2005.

2004*   *ShadowLight-Mirage in Architecture,* a part of the DIGITAL HEARTLAND EXHIBITION, Connecting >> Midwestern Digital Design in Architecture, sponsored by ACADIA (Association for Computer Aided Design in Architecture). Ball State University Gallery, Fall 2003. ACADIA - Crossroads of Digital Discourse, Indianapolis, IN, Fall 2003. University of Miami, OH, Spring 2004. University of Cincinnati, Spring 2004. ACSA Central States Conference, Elgin, IL, Fall 2004. University of Illinois at Urbana-Champaign, Fall 2004. (INVITED EXHIBITION).

2004*   *Web Tools for the Humanities,* with Alan Craig, Humanities Computing Summit, Urbana, Illinois, November 27, 2004. (INVITED)

2004   *ShadowLight: A Flexible Architecture for Immersive Rapid Prototyping and Design,* SIGGRAPH 2004, Los Angeles, California, July 7-12, 2004.

2004* *Web Tools for Educators*, with Alan Craig, REVITALIZE, Urbana, Illinois (broadcast to North Carolina via Access Grid), June 21, 2004. (INVITED)

2004* *VIAS: Data Mining the Entire Web*. Leetaru, Kalev. (2004). US-Australia Collaboration Workshop on High-Performance Grids and Applications. Swiss Grand Hotel, Bondi Beach, Sydney, Australia. June 8-9, 2004. (INVITED)

2004* *Debut of a New Web Tool*, with Alan Craig, NCSA Private Sector Program Annual Meeting, Urbana, Illinois, April 27, 2004. (INVITED)

2004* *NCSA VIAS*, with Alan Craig, NCSA Private Sector Program Annual Meeting, Urbana, Illinois, April 26, 2004. (INVITED)

2004* *What's Cool in Visualization and Computing at NCSA and How to Make it from Middle School to Big School*, Distinguished Alumni Presenter, Computer Graphics Workshop, Urbana Middle School, Urbana, Illinois, February 12, 2004. (INVITED)

2003* *ShadowLight-Mirage in Learning Environments*, Urbana Middle School, Urbana, Illinois, May 14-23, 2003. (INVITED EXHIBITION).

2002* *Architectural Applications of ShadowLight-Mirage*, American Institute of Architecture Students 2002 Forum, Chicago, Illinois, December 29-31, 2002. (INVITED EXHIBITION).