

Brandie Martin Nonnecke, PhD

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POSITIONS

- Dec. 2018 - Present Founding Director, CITRIS Policy Lab, UC Berkeley
- The CITRIS Policy Lab supports interdisciplinary research, education, and thought leadership to address core questions regarding the role of formal and informal regulation in promoting innovation and amplifying its positive effects on society.
- 2013 - Present Adjunct Lecturer, Donald P. Bellisario College of Communications, The Pennsylvania State University

EDUCATION

- 2013 - 2018 Postdoctoral Scholar
CITRIS and the Banatao Institute, UC Berkeley
- Faculty advisor: Prof. Ken Goldberg, College of Engineering, UC Berkeley
- Staff advisor: Dr. Camille Crittenden, CITRIS and the Banatao Institute
- 2013 PhD, Mass Communications (emphasis: Telecom Policy), The Pennsylvania State University
- Advisor: Prof. Richard Taylor
Dissertation title: Capacity building and collaborative policymaking: A case study of the East Africa Internet Governance Forum.
- 2010 MS, Journalism & Mass Communication
Minor: Technology and Social Change
Iowa State University
Thesis title: Mobile phones and rural livelihoods: An exploration of mobile phone diffusion, uses, and perceived impacts of uses among small- to medium-size farm holders in Kamuli District, Uganda.
- 2008 BA, Design and Advertising
Iowa State University

FELLOWSHIPS

April 2021 - Present	Fellow, International Strategy Forum, Schmidt Futures
May 2020 - Present	Technology & Human Rights Fellow, Carr Center for Human Rights Policy, Harvard Kennedy School
June – Aug. 2019	Tech Policy Hub Fellow, The Aspen Institute
2016 – 2019	Digital Economy & Society Fellow, World Economic Forum
2016 - 2018	Senior Research Fellow, Women & Girls Lead Global, Independent Television Services (ITVS)
2011 - 2013	Research Fellow, Institute for Information Policy, The Pennsylvania State University

AWARDS

2021	UC Berkeley Spot Award in recognition of developing the CITRIS Policy Lab.
2021	Recognized in the Women in AI Ethics' 2021 list of "100 Brilliant Women in AI Ethics" (https://100brilliantwomeninaiethics.com/the-list/of-2021/)
2019	Young Emerging Scholar Award, 2019 International Conference on Knowledge, Technology, and Society, Barcelona, Spain (https://techandsoc.com/about/history/2019-conference)
2018	Young Leader in Human Rights & Tech, RightsCon
2018	Pacific Telecommunications Council (PTC) Best Quality of Life Improvement Award Runner-Up, which recognizes a telecommunications product or network-centric ICT application that has had the most outstanding impact on improving the quality of life for people in the Pacific Rim. Received for "DevCAFE/Malasakit" crowdsourcing platform to identify disaster risk reduction strategies in the Philippines.

- 2017-2018 UC Berkeley Chancellor’s Award for Research in the Public Interest for the Collaborative Assessment and Feedback Engine (CAFE) (<http://cafesystem.org/>)
- 2015 IEEE Global Humanitarian Tech Best Paper Award for “DevCAFE 1.0: A participatory platform for assessing development interventions in the field.”

BRIEFINGS, HEARINGS, & LEGISLATION

- Nov. 2019 Provided guidance on the California Privacy Rights Act (CPRA) (passed in Nov. 2020).
- June 2019 Provided guidance to Congresswoman Castor (D-FL) on a bill to amend the Child Online Privacy Protection Act (COPPA) ([announcement](#)).
- May 10, 2019 Presented opportunities and barriers for 5G to members of the California Legislature during a briefing hosted by the Silicon Valley Leadership Group.
- April 24, 2019 Provided remarks in support of [AB-459](#), Artificial Intelligence in State Government Services Commission, in the California Legislature Assembly Accountability and Administrative Review Committee Hearing ([remarks and video](#)).
- Feb. 26, 2019 Presented the benefits and risks of AI in a Congressional briefing hosted by Congresswoman Jackie Speier (D-CA), Congressman Mark DeSaulnier (D-CA), and Congressman Jerry McNerney (D-CA).

BOARD & WORKING GROUP MEMBERSHIPS

- Oct. 2020 - Present Voting Member, IEEE P2863 Organizational Governance of Artificial Intelligence Working Group ([more info](#))
- This recommended practice specifies governance criteria such as safety, transparency, accountability, responsibility and minimizing bias, and process steps for effective implementation, performance auditing, training and compliance in the development or use of artificial intelligence within organizations.
- Aug. 2020 - Aug. 2021 Co-Chair, University of California (UC) Artificial Intelligence (AI) Working Group

Appointed by UC President Michael Drake to co-chair the UC AI Working Group to establish principles and guidelines for the UC system's development and use of AI-enabled tools. Co-chairs are Prof. Stuart Russell, Electrical Engineering and Computer Science, UC Berkeley and Alex Bustamante, Senior Vice President and Chief Compliance and Audit Officer, UC Office of the President.

[Final report & recommendations](#)

Feb. 2020 - Present

AI Security Initiative Advisory Board, Center for Long-Term Cybersecurity, UC Berkeley

Housed in the UC Berkeley Center for Long-Term Cybersecurity (CLTC), the AI Security Initiative is a growing hub for interdisciplinary research on the global security impacts of AI.

April 2019 - March 2021

Women in Machine Learning Board of Directors (wimlworkshop.org)

WiML creates opportunities for women to engage in substantive technical and professional conversations in a positive, supportive environment and increases awareness and appreciation of the achievements of women in machine learning.

Sept. 2018 - Jan. 2021

United for Iran Advisory Board (united4iran.org)

United for Iran works to advance civil liberties in Iran by advocating for human rights, supporting civil society, and engaging citizens through technology.

JOURNAL REVIEWER / CONFERENCE PROGRAM COMMITTEES

2020 - Present

The Misinformation Review, Harvard Kennedy School (<https://misinforeview.hks.harvard.edu/>).

Serving as a research article reviewer.

2019

ACM Fairness, Accountability, and Transparency (FAcCT), (facctconference.org/2019/committees.html). FAcCT is an interdisciplinary conference dedicated to bringing together a diverse community of scholars

from computer science, law, social sciences, and humanities to investigate and tackle issues in AI.

Served as a research article reviewer.

2017, 2018, 2020

Women in Tech Symposium, hosted by the EDGE in Tech Initiative at the University of California (<https://edge.berkeley.edu/>).

Served on the event planning committee.

PUBLICATIONS & PRESENTATIONS

Op-Eds & White Papers

Nonnecke, B. & Dawson, P. (Oct. 21, 2021). [Human rights implications of algorithmic impact assessments: Priority considerations to guide effective development and use](#). *Harvard Carr Center Discussion Paper Series*.

Coleman, F., Nonnecke, B., & Renieris, E. (May 6, 2021). [The promise and pitfalls of the Facebook Oversight Board: A human rights perspective](#). Discussion Paper. *Harvard Carr Center Discussion Paper Series*.

Nonnecke, B. (Nov. 15, 2020). [The FCC is trying to govern content moderation: It doesn't have the authority](#). *The Hill*.

Nonnecke, B., Sampath, N., Sistla, M., & Crittenden, C. (Sept. 2020). [The future of public sector work: Human-centered technology and policy strategies](#). *CITRIS Policy Lab, CITRIS and the Banatao Institute*.

Nonnecke, B. (April 1, 2020). [As millions of students turn to online education, the FCC must implement bold changes to close the digital divide](#). *Protego Press*.

Fahs, G., Nonnecke, B., & Parikh, N. (Dec. 6, 2019). [Applying test-driven development to technology policy](#). *Protego Press*.

Nonnecke, B. (Nov. 5, 2019). [Op-Ed: California's Anti-Deepfake Law is far too feeble](#). *Wired*.

Nonnecke, B. & Cussins Newman, J. (Oct. 18, 2019). [Here's how California is approaching the ethics of AI](#). *World Economic Forum*.

Nonnecke, B., Ruhrmann, H., & Sampson Geroski, A. (Sept. 2019). [Responsible digital ID: Effects of data governance policies and practices on human rights. Case studies from Argentina, Estonia, Kenya, and China](#). *CITRIS Policy Lab, CITRIS and the Banatao Institute*.

Nonnecke, B. & Cussins Newman, J. (May 28, 2019). [Fair, reliable, and safe: California can lead the way on AI policy to ensure benefits for all.](#) *Berkeley Blog*.

Nonnecke, B., Gummi, M., Crittenden, C., Lindeman, D., & Gillette, D. (Sept. 25, 2018). [Putting AI to work: Technology and policy for enabling the workforce of the future.](#) *CITRIS Policy Lab, CITRIS and the Banatao Institute*.

Nonnecke, B. & Martin, E. (Feb. 26, 2018). [Will the next evaluation breakthrough come from online shopping?](#) *Stanford Social Innovation Review*.

Nonnecke, B. (Dec. 14, 2017). [Fight sexual harassment in technology companies with – technology.](#) *Mercury News*.

Nonnecke, B. (Nov. 2017). [Mobile broadband holds great promise for rural connectivity, but is it enough?](#) *The Internet Society*.

Nonnecke, B. (Sept. 2017). [Artificial intelligence can make our societies more equal. Here's how.](#) *World Economic Forum*.

Nonnecke, B. (Sept. 2017). [Risks of Recognition: The United Nations High Commissioner for Refugees is rolling out a new digital ID program with plenty of potential benefits – and major cybersecurity implications.](#) *Context: By New America*.

Nonnecke, B., Prabhakar, T., Brown, C., & Crittenden, C. (July 2017). [Inclusive AI: Technology and Policy for a Diverse Urban Future.](#) *CITRIS and the Banatao Institute*.

Nonnecke, B. (Feb. 3, 2017). [Listening, understanding are necessary to succeed.](#) *Daily Californian*.

Nonnecke, B., Bruch, M., & Crittenden, C. (June 2016). [IoT & Sustainability: Practice, Policy, and Promise.](#) *CITRIS and the Banatao Institute*.

Nonnecke, B. (Jan. 2017). [Revolutionary Code: Why we need more conscious and collaborative social movement technologies.](#) *Context: By New America*.

Refereed Articles

Nonnecke, B., Perez de Acha, G., Choi, A., Crittenden, C., Ignacio Gutiérrez Cortés, F., Martin del Campo, A., & Mario Miranda-Villanueva, O. (Dec. 20, 2021). Harass, mislead, & polarize: An analysis of Twitter political bots' tactics in targeting the immigration debate for the 2018 US midterm election. *Journal of Information Technology and Politics*, DOI: 10.1080/19331681.2021.2004287.

Ochoa, M. & Nonnecke, B. (Oct. 2019). *Increasing human development in rural Mexico through policies for internet access*. Proceedings of the 2019 IEEE Global Humanitarian Tech Conference (GHTC). Seattle, WA.

Nonnecke, B., Martin del Campo, A., Singh, S., Wu, W., & Crittenden, C. (2019). Women's reproductive rights: Computational propaganda in the United States. *Institute for the Future*.

Nonnecke, B., Mohanty, S., Lee, A., Lee, J., Beckman, S., Mi, J., Panpairoj, T., Ancheta, J., Martinez, H., Oco, N., Roxas, R., Crittenden, C., & Goldberg, K. (2018, October). *Malasakit 2.0: A participatory online platform with feature phone integration and voice recognition for crowdsourcing disaster risk reduction strategies in the Philippines*. Proceedings of the 2018 IEEE Global Humanitarian Tech Conference (GHTC). San Jose, CA.

Nonnecke, B., Mohanty, S., Lee, A., Lee, J., Beckman, S., Mi, J., Krishnan, S., Roxas, R., Oco, N., Crittenden, C., & Goldberg, K. (2017, October). *Malasakit 1.0: A participatory online platform for crowdsourcing disaster risk reduction strategies in the Philippines*. Proceedings of the IEEE Global Humanitarian Tech Conference (GHTC). San Jose, CA.

Meneses, M., Nonnecke, B., Martin del Campo, A., Krishnan, S., Patel, J., Kim, M., Crittenden, C., & Goldberg, K. (2017) Overcoming citizen mistrust and enhancing democratic practices: Results from the e-participation platform 'Mexico Participa.' *Information Technologies and International Development (ITID)*, 13, 138-154.

Epstein, D. & Nonnecke, B. (2016). Multistakeholderism in praxis: The case of the regional and national IGF initiatives. *Policy & Internet*, 8(2), 148-173. doi: 10.1016/j.telpol.2015.12.005

Nonnecke, B. (2016). The transformative effects of multistakeholderism in Internet governance: A case study of the East Africa Internet Governance Forum. *Telecommunications Policy*, 40(4), 343-352.

Dinesen, B., Nonnecke, B., Lindeman, D., Toft, E., Kidholm, K., Jethwani, K., Young, H., Spindler, H., Oestergaard, C., Southard, J., Gutierrez, M., Anderson, N., Albert, N., Han, J., Nesbitt, T. (2016). Personalized telehealth in the future: A research agenda. *Journal of Medical Internet Research*, 8(3).

Nonnecke, B.*, Krishnan, S.*, Patel, J., Zhou, M., Byaruhanga, L., Masinde, D., Meneses, M., Martin del Campo, A., Crittenden, C., & Goldberg, K. (October 2015). *DevCAFE 1.0: A participatory platform for assessing development interventions in the field*. Proceedings of the 2015 IEEE Global Humanitarian Technology Conference (GHTC). Seattle, WA.



Recipient of the 2015 IEEE GHTC Best Paper Award

Patel, J., Gershoni, G., Krishnan, S., Nelimarkka, M., Nonnecke, B., & Goldberg, K. (August 2015). *A case study in mobile-optimized vs. responsive web application design*. Proceedings of the ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI). Copenhagen, Denmark.

Zhou, M., Cliff, A., Huang, A., Krishnan, S., Nonnecke, B., Uchino, K., Joseph, S., Fox, A., Goldberg, K. (March 2015). *M-CAFE: Managing MOOC Student Feedback with Collaborative Filtering*. Proceedings of the 2nd ACM Conference on Learning At Scale (L@S 2015), Vancouver, BC, Canada

Martin, B. & Jayakar, K. (2013). Moving beyond dichotomy: Comparing composite telecommunications regulatory governance indices. *Telecommunications Policy*, 37(9), 691-701.

Olorunnisola, A. & Martin, B. (2013). Influences of media on social movements: Problematizing hyperbolic inferences about impacts. *Telematics & Informatics*, 30(3), 275- 288.

- Most frequently downloaded article for over 90 days in Telematics & Informatics (May - July 2013)

Jayakar, K. & Martin, B. (2012). Regulatory governance in African telecommunications: Testing the resource curse hypothesis. *Telecommunications Policy*, 36(9), 691-703.

Martin, B. (2012). Hitting or missing African UAS objectives? An evaluation of universal access and service (UAS) policy guidelines for developing countries. *Communications & Strategies*, 86(2), 121-141.

Martin, B. & Abbott, E. (Winter 2011). Mobile phones and rural livelihoods: Diffusion, uses, and perceived impacts of uses among small- to medium-sized farm holders in Kamuli District, Uganda. *Information Technologies & International Development*, 7(4), 17-34.

Book Chapters

Koenig, A. & Nonnecke, B. (2020). Human rights, psychology, and artificial intelligence. In N. Rubin & R. Flores (Eds.), *Handbook on Psychology and Artificial Intelligence* (pp. 583-590). Cambridge, UK: Cambridge University Press.

Fratoni, M., Ahn, J., Nonnecke, B., Locatelli, G., & Goldberg, K. (2017). Development of a knowledge management system for energy driven by public feedback. In J. Ahn, F. Guarnieri, & K. Furuta (Eds.), *Resilience: A new paradigm of nuclear safety. From accident mitigation to resilient society facing extreme situations* (pp. 127-133). Cham, Switzerland: Springer Open.

Nonnecke, B., Aitamurto, T., Catterson, D., Crittenden, C., Garland, C., Huang, A., Krishnan, S., Nelimarkka, M., Newsom, G., Patel, J., Scott, J., & Goldberg, K. (2016). The California Report Card v1.0. In E. Gordon & P. Mihailidis (Eds.), *Civic Media: Technology, Design, Practice* (pp. 235 – 240). Cambridge, MA: MIT Press.

Martin, B. & Olorunnisola, A. (2013). Voicing dissent from Kenya to Egypt: How new ICTs can either be “liberation” or “repression” technologies. In A. Olorunnisola & A. Douai (Eds.), *New media influence on social and political change in Africa*. Hershey, PA: IGI Global.

Book Reviews

Martin, B. (2011). Review of communications research in action: Scholar-activist collaborations for a democratic sphere edited by Philip M. Napoli and Minna Aslama. *Journal of Information Policy*, 1, 179-181.

Refereed Conference Presentations

Ochoa, M. & Nonnecke, B. (Sept. 2019). *Developing a parsimonious digital inclusion index: The case of Mexico*. Paper presented at the 2019 Telecommunications Policy Research Conference (TPRC). Washington, DC.

Nonnecke, B., Gummi, M., Crittenden, C., Lindeman, D., & Gillette, D. (Sept. 2018). *Putting AI to work: Technology and policy for enabling the workforce of the future*. International Conference on Technology, Knowledge, and Society. Barcelona, Spain.

Nonnecke, B., Nakhat, U., Martin del Campo, A., Meneses, M., & Zarate, H. (29 May 2018). *Tweeting at the border wall: Twitter as a platform for transnational lobbying between the U.S. and Mexico*. Paper presented at the 2018 International Communications Association (ICA) post-conference “Lobbying and Democracy: The Voice of Communication.” Prague, Czech Republic.

Epstein, D. & Nonnecke, B. (26-27 April 2018). *Participation Matters: Potential Effects of the IGF on Internet Governance Capacity Building*. Paper presented at the 2018 GIG-ARTS Conference. Cardiff, UK.

Nonnecke, B. & Epstein, D. (May 2016). *Crowdsourcing Internet governance: Assessing effects of crowdsourcing platform design on Internet governance debates*. Paper presented at the ACM Special Interest Group on Computer-Human Interaction (CHI) Conference. San Jose, CA.

Zhou, M., Cliff, A., Krishnan, S., Nonnecke, B., Crittenden, C., Uchino, K., & Goldberg, K. (Sept. 2015). *Motivating and prioritizing ongoing student feedback during MOOCs and large on-campus courses using collaborative filtering*. Paper presented at ACM Special Interest Group for Information Technology Education Conference. Chicago, IL.

Nonnecke, B., Krishnan, S., Akula, A., Cliff, A., Huang, A., Lin, A., Nehama, S., Byaruhanga, L., Masinde, D., Crittenden, C., & Goldberg, K. (May 2015). *A mobile platform for participatory assessment of development programs and a case study in Uganda*. Paper presented at the Humanitarian Technology Conference: Science, Systems and Global Impact. Boston, MA.

Nonnecke, B. (Nov. 2014). *Participatory action research methodologies for development evaluation*. USAID Higher Education Solutions Network (HESN) TechCon. San Francisco, CA.

Nelimarkka, M., Nonnecke, B., Krishnan, S., Aitamurto, A., Huang, A., Newsom, G., Gregory, C., Patel, J., Catterson, D., Crittenden, C., Scott, J., Garland, C., & Goldberg, G. (Sept. 2014). *Comparing three online civic engagement platforms using the "Spectrum of Public Participation" framework*. Paper presented at the University of Oxford: Internet, Policy, and Politics Conference on Crowdsourcing for Politics and Policy (IPP 2014). Oxford, UK.

Martin, B. (Nov. 2012). *Hitting or missing Africa's telecommunication development targets? Evaluating the World Bank's universal access and service policy recommendations for developing countries*. Paper to be presented at the National Communication Association, Orlando, FL.

Martin, B. & Jayakar, K. (Sept. 2012). *Moving beyond dichotomy: Construction and testing of a composite telecommunications regulatory governance index*. Paper presented at the Telecommunications Policy Research Conference, Arlington, VA.

Schejter, A. & Martin, B. (Sept. 2012). *If you build it - Will they come? Understanding the information needs of users of BTOP funded broadband Internet public computer centers*. Paper presented at the Telecommunications Policy Research Conference, Arlington, VA.

Hoag, A., Martin, B., & Dong, S. (Aug. 2012). *Making a splash on the first day of class: Creating and using short case studies*. Poster presented within the "Great Ideas for Teaching" poster session at the Association for Education in Journalism and Mass Communication, Chicago, IL.

Martin, B. (May 2012). *The revolution will be hyperbolized: Western media discourse of use of social media in the 2011 Egyptian revolution*. Paper presented at the annual meeting of the International Communications Association, Phoenix, AZ.

Martin, B. & Olorunnisola, A. (Nov. 2011). *Voicing dissent from Kenya to Egypt: How new ICTs can either be "liberation" or "repression" technologies*. Paper presented at the annual meeting of the National Communication Association, New Orleans, LA. Jayakar, K. & Martin, B. (2011, September). *Regulatory governance in African telecommunications: Testing the resource curse*

hypothesis. Paper presented at the Telecommunications Policy Research Conference, Arlington, VA.

Martin, B. & Olorunnisola, A. (Sept. 2011). *Use of new ICTS as “liberation” or “repression” technologies in social movements: the need to formulate appropriate media policies*. Paper presented at the Institute for Information Policy and New America Foundation Workshop, Washington, DC.

Martin, B. & Abbott, E. (March 2010). *Development calling: The use of mobile phones in agriculture development in Uganda*. Paper presented at UNESCO’s International Federation for Information Processing Workshop, Kampala, Uganda.

Martin, B. (2009). *Uses of mobile phones in agriculture development in Uganda*. Poster presented at the Norman Borlaug World Food Prize: Graduate Research Poster Presentation, Ames, IA

TEACHING

2011 - Present

The Pennsylvania
State University

Communications (COMM) 403:
Law of Mass Communication: Nature and theories of
law; the Supreme Court and press freedom; legal
problems of the mass media

Communications (COMM) 410:
International Communications: The role of
international media in communication among and
between nations

Communications (COMM) 428B:
Strategic Communications Law: First Amendment
protection for commercial speech; advertising
regulation; privacy regulation

Communications (COMM) 489W*:
Utilizing economic and regulatory models to explain
the structure, conduct and performance of firms in the
media and information industries, including the
emergence of information and communication
technology (ICT) for development activities by
multinational ICT companies

*Course Developer

GRANTS

A Transdisciplinary Program for Pre-College Youth to Prepare the Future Workforce for Fairness, Accountability, Transparency, and Ethics (FATE) in AI
Sponsor: National Science Foundation (NSF #2039637)

Role: Co-PI
Date: Aug. 2020 – Oct. 2021
Amount: \$299,987

Evaluation and Assessment of State Technology Pilot Projects Focused on Artificial Intelligence and Robotic Process Automation
Sponsor: California Department of Technology
Date: July 2020 - June 2021
Amount: \$175,854

The Inclusive Workforce: Human-centered technology and policy strategies to enhance the future of work
Sponsor: Microsoft
Role: Co-PI
Date: Aug. 2019 – Nov. 2020
Amount: \$100,000

Equidad Digital: The social and human rights impacts of AI-enabled decision-making in Mexico
Sponsor: UC MEXUS-CONACYT
Role: Co-PI
Date: Aug. 2018 – Aug. 2020
Amount: \$25,000

Putting AI to Work: Technology & policy for enabling the workforce of the future
Sponsor: Microsoft
Role: Co-PI
Date Jan. 2018 – June 2018
Amount: \$100,000

E-Participation 2.0: Connecting diverse Philippine populations for disaster risk management with a toolkit integrating text and speech analytics
Sponsor: Philippine California Advanced Research Institutes (PCARI)
Role: Co-PI
Date: May 2016 – May 2018
Amount: \$605,000

Inclusive AI: Technology & policy for a diverse urban future
Sponsor: Microsoft
Role: Co-PI
Date: Jan. 2017 – June 2017
Amount: \$80,000

IoT & Sustainability: Practice, policy, and promise
Sponsor: Microsoft

Role: Co-PI
Date: Jan. 2016 – June 2016
Amount: \$40,000

Mexico Participa: A platform to crowdsource priority policy issues in Mexico
Sponsor: CITRIS, UC Berkeley
Role: Lead Researcher
Date: January – December 2015
Amount: \$25,000

Collaborative Assessment and Feedback Engine (CAFE)
Sponsor: Blum Center for Developing Economies and the Development
Impact Lab (USAID Cooperative Agreement AID-OAA-A-12-00011)
Role: Lead Researcher
Date: Dec. 2013 – Aug. 2016
Amount: \$300,000

MEDIA APPEARANCES

Tarantola, A. (May 3, 2021). [How social media recommendation algorithms help spread hate](#). *Engadget*.

Tarantola, A. (April 30, 2021). [The EU's proposed AI laws would regulate robot surgeons but not the military](#). *Engadget*.

Fancher, L. (8 Jan., 2020). [Researchers Into 'Deepfakes' Highlight Failings of New California Legislation](#). *East Bay Express*.

NPR. (20 Nov., 2019). [Unprecedented: The right to offend](#). 1A.

Vanian, J. (13 Aug., 2019). [How state politics is playing a huge role in artificial intelligence: Eye on A.I.](#) *Fortune*.

Kinstler, L. (17 May, 2019). [Big tech firms are racing to track climate refugees: Facebook, Palantir, Microsoft, and more see big money in migration caused by global warming and they're betting on everything from biometrics to blockchain](#). *MIT Technology Review*.

Lytvynenko, J. (17 May, 2019). [Misinformation is spreading about the Alabama abortion ban. Here's what's real and what's false](#). *Buzzfeed News*.

Silverman, C. & Lytvynenko, J. (7 May, 2019). [Vulnerable groups could be targeted and silenced online ahead of 2020 election, researchers warn](#). *Buzzfeed News*.

Lee, D. (15 February 2019). [Researchers create 'malicious' writing AI](#). *BBC News*.

Lee, D. (26 September 2018). [Facebook hate speech glitch investigated by firm](#). *BBC News*.

Lee, D. (15 May 2018). [Facebook details scale of abuse on its site](#). *BBC News*.

Stuart, S.C. (18 December 2017). [Disaster recovery goes high tech](#). *PC Mag*.

Hinchliffe, E. (7 October 2017). [Why everyone is so convinced Facebook is spying on their conversations](#). *Mashable*.