

# Shunryu Colin Garvey

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Curriculum Vitae, January 5, 2022

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*I probe decision making under the conditions of complexity, uncertainty, and disagreement,  
with a focus on the governance of risky sociotechnical systems, such as AI, and the facilitation of flourishing futures.*

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## EDUCATION

- 2019 PhD, Science & Technology Studies (STS), Rensselaer Polytechnic Institute (RPI)  
2015 MS, STS, RPI  
2008 BA, Japanese Literature & Language, Media Studies, Vassar College

## PROFESSIONAL APPOINTMENTS

- 2020 ~ Affiliate Fellow, Stanford Institute for Human-Centered Artificial Intelligence (HAI)  
2020 ~ Network Affiliate, Stanford Center for International Security & Cooperation (CISAC)  
2019 – 2020 Postdoctoral Fellow (with joint appointments at HAI & CISAC), Stanford University

## PUBLICATIONS

### Journal Editor

- 2021 “Artificial Intelligence & its Discontents.” Double Issue, *Interdisciplinary Science Reviews* 46(1-2)

### Peer-Reviewed Journal Articles

- 2021 **Garvey, Shunryu C.** “Unsavory Medicine for Technological Civilization: Introducing ‘Artificial Intelligence & its Discontents?’” *Interdisciplinary Science Reviews* 46(1-2): 1-18.  
<https://doi.org/10.1080/03080188.2020.1840820>
- 2021 **Garvey, Shunryu C.** “The ‘General Problem Solver’ Does Not Exist: Mortimer Taube and the Art of AI Criticism.” *IEEE Annals of the History of Computing* 43(1): 60-73.  
<https://doi.org/10.1109/MAHC.2021.3051686>
- 2020 Mustafa Bayram, Simon Springer, **Colin Garvey**, and Vural Özdemir. “COVID-19 Digital Health Innovation Policy: A Portal to Alternative Futures in the Making.” *OMICS: A Journal of Integrative Biology* 24(8): 460-469. <https://doi.org/10.1089/omi.2020.0089>
- 2020 **Garvey, Colin** and Chandler Maskal. “Sentiment Analysis of the News Media on Artificial Intelligence Does Not Support Claims of Negative Bias Against AI.” *OMICS* 24(5): 286-299.  
<https://doi.org/10.1089/omi.2019.0078>

- 2020 Vural Özdemir, Yalçın Arga, Ramy K. Aziz, Mustafa Bayram, Shannon N. Conley, Collet Dandara, Laszlo Endrenyi, Erik Fisher, **Colin Garvey**, ... Rene Von Schomberg, Aymen S. Yassin, Gürçim Yılmaz, Wei Wang. “Digging Deeper into Precision/Personalized Medicine.” *OMICS* 24(2): 1-19.
- 2019 **Garvey, Colin**. “Artificial Intelligence and Japan’s Fifth Generation: The Information Society, Neoliberalism, and Alternative Modernities.” *Pacific Historical Review* 88(4): 619-658.
- 2014 Caporael, Linnda R. and **Colin Garvey**. “The Primacy of Scaffolding within Groups for the Evolution of Group-Level Traits.” *Behavioral and Brain Sciences* 37(3): 255-256.

### **Refereed Conference Proceedings**

- 2020 **Garvey, Colin**. “‘AI for Social Good’ and the First AI Arms Race: Lessons from Japan’s Fifth Generation Computer Systems (FGCS) Project.” In *Proceedings of the 34th Annual Conference of the Japanese Society for Artificial Intelligence*, 4pp.
- 2018 **Garvey, Colin**. “A Framework for Evaluating Barriers to the Democratization of Artificial Intelligence.” In *Proceedings of the Thirty-Second AAAI Conference on Artificial Intelligence*, 8079-8080. Palo Alto, CA: AAAI Press.
- 2018 **Garvey, Colin**. “AI Risk Mitigation Through Democratic Governance: Introducing the 7-Dimensional AI Risk Horizon.” In *Proceedings of the 2018 AAAI/ACM Conference on AI, Ethics, and Society*, 366-367. New York: ACM.

### **Book Chapters**

- 2018 **Garvey, Colin** and Daniel Chard. “Disrupting the AAA\$.” In *Science for the People: Documents from America’s Movement of Radical Scientists*. Schmalzer, Chard, and Bothelo, eds., 36-61. Cambridge, MA: University of Massachusetts Press.
- 2015 Eglash, Ron and **Colin Garvey**. “Satoyama as Generative Justice: Humanity, Hybridity, and Biodiversity in a Horizontal Social Ecology.” In *Shape Shifting*. Marhöfer and Lylov, eds., 58-68. Berlin: Archive Books.
- 2014 Eglash, Ron and **Colin Garvey**. “Basins of Attraction for Generative Justice.” In *Chaos Theory in Politics*. Banerjee, Erçetin, and Tekin, eds., 75-88. Dordrecht: Springer Netherlands.

### **Book Reviews**

- 2018/2019 **Garvey, Colin**. “Review of *Homo Deus: A Brief History of Tomorrow*, by Yuval Harari, New York: Vintage, 2017.” *ICON* 24: 234-236
- 2017 **Garvey, Colin**. “Review of *Robots*, by John M. Jordan, Cambridge, MA: The MIT Press, 2016.” *ICON* 23: 200-202
- 2016 **Garvey, Colin**. “Review of *Superintelligence: Paths, Dangers, Strategies*, by Nick Bostrom, Oxford: Oxford University Press, 2014.” *ICON* 22: 144-146.

### **Online Publications**

- 2018 **Garvey, Colin**. “Broken Promises & Empty Threats: The Evolution of AI in the USA, 1956-1996.” *Technology’s Stories* (Society for the History of Technology)  
<https://www.technologystories.org/ai-evolution/>

### Editorials

- 2020 Özdemir, Vural, Simon Springer, **Colin Garvey**, and Mustafa Bayram. “COVID-19 Health Technology Governance, Epistemic Competence, and the Future of Knowledge in an Uncertain World.” *OMICS* 24(8): 451–53. <https://doi.org/10.1089/omi.2020.0088>.
- 2019 **Garvey, Colin**. “Hypothesis: Is ‘Terminator Syndrome’ a Barrier to Democratizing Artificial Intelligence and Public Engagement in Digital Health?” *OMICS* 23(7): 362-363.
- 2018 **Garvey, Colin**. “Interview with Colin Garvey, Rensselaer Polytechnic Institute. Artificial Intelligence and Systems Medicine Convergence.” *OMICS* 22(2): 130-132.

### Book Manuscript in Preparation

Working Title - *Terminated? Strategic Governance for AI Catastrophe Aversion*

### Manuscripts in Preparation

- Garvey, Colin**. “Against AI Ethics: A View from Political Decision Theory.” *IJCAI-22 Conference*
- Garvey, Colin**. “AI Ethics?: A Strategic Alternative.” *Nature Machine Intelligence*
- Garvey, Colin**. “Bounded by Rationality: The Limits of Bounded Rationality” *Social Studies of Science*
- Garvey, Colin**. “Two Thousand Years of Intelligent Machines: A Review.” *Technology & Culture*

### **AWARDS, FELLOWSHIPS, GRANTS**

#### Awards

- 2017 Society for the History of Technology (SHOT) Best Early Career Panel/Paper

#### Fellowships

- 2017 – 2019 Humanities, Arts, and Social Sciences (HASS) Fellowship, RPI
- 2017 Alger Engineering Ethics Fellowship, RPI
- 2012 – 2014 GK-12 “Triple Helix” Fellowship, National Science Foundation (NSF)

#### Grants

- 2019 Travel Grant to “Towards a History of Artificial Intelligence,” Columbia University, NYC
- 2018 Travel Grant from RPI Institute for Data Exploration and Application (IDEA) for “AI: Expert Systems Pioneers,” Computer History Museum, Mountain View, CA
- 2018 NSF Travel Grant to Society for the History of Technology, St. Louis, MO
- 2018 AAI/ACM Travel Grant to Artificial Intelligence, Ethics, and Society, New Orleans, LA
- 2017 Travel Grant to History of Science Society, Toronto, Canada
- 2017 NSF Travel grant to Society for the History of Technology, Philadelphia, PA
- 2017 Travel Grant to Society for New and Emerging Technologies, ASU
- 2017 NSF + 4S Travel Grant to Society for the Social Study of Science (4S), Boston, MA
- 2016 Travel Grant to De Lange Conference X, Rice University
- 2016 NSF/SHOT Travel Grant to Society for the History of Technology, Singapore
- 2016 Travel Grant STGlobal Conference, Washington DC
- 2015 Travel Grant to Society for the Social Studies of Science, Denver, CO
- 2015 NSF Travel Grant to Society for the History of Technology, Albuquerque, NM,
- 2015 Travel Grant to International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB), Montreal, Canada
- 2013 Travel Grant to ISHPSSB, Montpellier, France

## PRESENTATIONS

### Invited Talks

- 2020 “Can AI Help? The Politics of Digital Health Technologies for COVID-19.” Cybersecurity Center, New Mexico Institute of Mining and Technology, July 22
- 2020 “Second Time as Farce? Trans-Pacific AI Arms Races, Then and Now.” Center for Strategic and International Studies (CSIS), Washington DC, February 28
- 2019 “Who Needs What Intelligence?” Supreme Court of California, December 12
- 2019 “Scanning the AI Risk Horizon: Cybersecurity, Trust, and Other Challenges.” Cybersecurity Center, New Mexico Institute of Mining and Technology, September 20
- 2019 “Hiring, Firing, and Wiring: AI in Human Resources.” College of Saint Rose, February 26
- 2019 “AI in Context: History, Ethics, and Politics.” Saratoga City Center’s “The AI Opportunity: Developing an AI Ecosystem in Upstate New York.” Saratoga Springs, NY, January 24
- 2015 “The Risks of Artificial Intelligence and their Governance.” New Mexico Institute of Mining and Technology, November 9

### Campus Talks

- 2020 “Strategies for Coping with Complexity, Uncertainty, and Disagreement in AI Risk Governance.” Stanford CISAC, April 30
- 2019 “Averting AI Catastrophe: Challenges for Democratic Governance.” Stanford HAI, Oct. 25
- 2019 “The Seven Deadly Risks of AI and the Future of Humanity.” RPI, July 29
- 2016 “Risky Machines: AI and Lethal Autonomous Weapons.” STS Colloquium Series on Artificial Intelligence, Robots, and the Future of Work, RPI, Sept. 14

### Media Appearances

- 2021 「三条のお寺で修行中！アメリカ人僧侶」 まるどりっ！UP, July 10.  
<http://www.uxtv.jp/marudori/backnumber/710-三条のお寺で修行中！アメリカ人僧侶/>
- 2021 “American Buddhist priest, sociologist working for regional revitalization in Japan.” *The Mainichi*, July 2. <https://mainichi.jp/english/articles/20210702/p2a/00m/0na/011000c>
- 2020 “HAI Fellow Colin Garvey: A Zen Buddhist Monk’s Approach to Democratizing AI.” *Stanford HAI* (blog), May 28. <https://hai.stanford.edu/blog/hai-fellow-colin-garvey-zen-buddhist-monks-approach-democratizing-ai>.
- 2020 “A Zen Approach to Making AI Work for All of Us,” *Techsequences* podcast series, July 8. <https://www.techsequences.org/podcasts/>
- 2019 *Contributor*. “Talking to Machines: LISP and the Origins of AI.” Redhat *Command Line Heroes* podcast, Season 3, Episode 7. <https://www.redhat.com/en/command-line-heroes/season-3/talking-to-machines>

## CONFERENCE ACTIVITY

### Panels Organized

- 2020 Single session. “Situating Artificial Intelligence: Medicine, Green Energy, & Justice.” Society for the Social Study of Science (4S), August 18-21, 2020
- 2018 Presidential Roundtable, “An Offering of Tools and Advice for a Post-Grad Work/Life; Or, ‘Get a Job!’” Society for the History of Technology, St. Louis, MO, October 11-14

- 2017 Two stringed sessions. “The History of Artificial Intelligence and its Discontents.” SHOT, Philadelphia, PA, October 26-29
- 2017 Three stringed sessions. “Making Sense of Autonomous Technologies, 40 Years Later.” 4S, Boston, MA, August 30-Sept. 2

**Conferences/Workshops Organized**

- 2018 Organizer, Graduate Student Workshop, SHOT, St. Louis, MO, October 11-14
- 2017 Co-Organizer, Graduate Student Workshop, SHOT, Philadelphia, PA, October 26-29
- 2016 Organizer, Northeast STS Graduate Student Conference (NESTS), RPI, March 12-13

**Papers Presented**

- 2020 “Averting AI Doomsday.” Society for the Social Study of Science (4S), August 18-21
- 2020 “‘AI for Social Good’ and the First AI Arms Race: Lessons from Japan’s FGCS Project.” Japanese Society for Artificial Intelligence (JSAI), Kumamoto City, Japan, June 9-12
- 2019 “Was the Fifth Generation a Failure? Fuchi, Feigenbaum, and the Japanese FGCS Project, 1978-1995.” Towards a History of Artificial Intelligence, Columbia University, May 23-24
- 2018 “The ‘General Problem Solver’ Doesn’t Exist: Mortimer Taube & The Art of AI Criticism.” SHOT, St. Louis, MO, October 11-14
- 2018 “A Framework for Evaluating Barriers to the Democratization of Artificial Intelligence.” Thirty-Second AAAI Conference (AAAI-18). New Orleans, LA, February 2-7
- 2018 “AI Risk Mitigation through Democratic Governance.” AAAI/ACM Conference on Artificial Intelligence, Ethics, and Society (AIES-18), New Orleans, LA, February 2-3
- 2017 “Broken Promises & Empty Threats: The Evolution of AI in America, 1956-1996.” SHOT, Philadelphia, PA, October 26-29
- 2017 “Evaluating Barriers to the Democratization of AI R&D.” Society for New and Emerging Technologies (SNET), Arizona State University, October 9-11
- 2017 “Barriers to the Democratization of AI R&D.” 4S, Boston, MA, August 30 - September 2
- 2017 “On the Democratization of Artificial Intelligence.” Data Power, Carleton University, Ontario, Canada, June 22-23
- 2017 “A Framework for Evaluating Barriers to the Democratization of AI.” Engineering and Liberal Education Symposium, Union College, June 7
- 2016 “Evaluating Barriers to the Democratization of AI R&D through Intelligent Trial & Error (TTE)” De Lange Conference X, Rice University, December 5-6
- 2016 “Risk and Governance of Artificial Intelligence in the USA and Japan.” SHOT, National University of Singapore, June 22-26
- 2016 “Appropriate Intelligence? AI and the Governance of Emerging Technologies.” STGlobal Conference, National Academy of Sciences, Washington DC, April 8-9
- 2015 “Faster vs Smarter: Governance and AI.” 4S, Denver, CO, November 11-15
- 2015 “Economic Threats, National Defense, and the ‘Manifest Destiny’ of AI: The Failure of the Japanese FGCS Project, 1982-1994.” SHOT, Albuquerque, NM, October 8-11

**Discussant**

- 2021 “Tech History in Tech Policy.” SHOT, New Orleans, LA, November 19.
- 2020 “Disingenuous Rhetoric.” Mellon Sawyer Seminar on “Histories of AI: A Genealogy of Power,” University of Cambridge, August 19
- 2019 “Death Valley.” Theorizing the Web, New York, NY, April 12-13

- 2018 “The Future of SHOT: Gateways to the Next 60 Years.” Presidential Roundtable, Society for the History of Technology, St. Louis, MO, October 11-14
- 2016 “Where Do They See STS Headed?” 40th Anniversary of the Inaugural Meeting of the Society for the Social Studies of Science, Cornell University, October 27-28

## TEACHING EXPERIENCE

**Rensselaer Polytechnic Institute:** Large (100+ Students) Introductory Courses:

- Science, Technology, and Society - Co-Instructor (Fall 2015, Spring 2016)
- Information Technology and Society - Teaching Assistant (Spring 2015, 2017)
- Cultures of Scientific Revolution - Teaching Assistant (Fall 2016)

## COURSES PREPARED TO TEACH

### Introductory

- Introduction to Science, Technology, and Society (STS 101)
- Artificial Intelligence, Ethics, and Society (AI Ethics 101)

### Advanced Undergraduate/Graduate

- Governing 21<sup>st</sup> Century Risks: AI, Cybersecurity, and Life Extension (Upper Level/Grad)
- “No Innovation Without Representation?” The Politics of Technology (Upper Level/Grad)
- 5,000 Years of Computation: Global Histories of Intelligent Machines (Upper Level/Grad)

## SERVICE TO PROFESSION

- 2021 – Reviewer, *AI & Society*
- 2020 – Reviewer, *ACM Transactions on Computing Education*
- 2020 – Program Committee, Reviewer, Thirty-Fifth AAAI Conference (AAAI-21)
- 2020 – Reviewer, MIT Press
- 2020 – Reviewer, *Nature: Machine Intelligence*
- 2019 – Reviewer, *OMICS: A Journal of Integrative Biology*
- 2019 – Member, SHOT ECIG
- 2016 – 2018 Member, Executive Council, Society for the History of Technology (SHOT)
- 2016 – 2018 Chair, Co-Chair, SHOT Early Career Interest Group (ECIG)
- 2016 Co-Founder, SHOT ECIG

## DEPARTMENTAL SERVICE

- Member, Social Science Reading Group, Nuclear Reading Group, Stanford CISAC, (2019 – 2020)
- Graduate Student Mentor, STS Department, RPI (2017 – 2019)
- Graduate Student Representative, STS Department, RPI (2016 – 2017)

## LANGUAGE SKILLS

**Japanese:** **Fluent Speaker, Excellent Reader, Skilled Writer**

- 2014 – 2018 Professional Translator (75+ scientific articles and abstracts)
- 2012 JLPT N1 (Japanese Language Proficiency Test Level 1) Fluency Certification

## REFERENCES

Edward J. Woodhouse  
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Department of Science & Technology Studies  
Rensselaer Polytechnic Institute  
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