

SETH FREY, PH.D.

(sounds like 'fry')

Associate Professor of Communication

University of California, Davis

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SUMMARY

I am a computational social scientist who studies common-pool resource governance systems using computational methods, large datasets, formal models, and large-scale experiments.

EDUCATION

- 2013** **Ph.D. in Cognitive Science and Informatics**, Indiana University, Bloomington
Focus on cognitive science of strategic reasoning.
Committee: Rob Goldstone, Elinor Ostrom, Peter Todd, Jerome Busemeyer, Johan Bollen
- 2004** **B.A. in Cognitive Science**, University of California, Berkeley
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RESEARCH EXPERIENCE

APPOINTMENTS

- 2023–present** **Associate Professor**, Communication, University of California, Davis
- 2017–2023** **Assistant Professor**, Communication, University of California, Davis
- 2018–present** **Society & Technology External Faculty**, Computer Science Graduate Group, University of California, Davis
- 2018–present** **Associate Professor**, Cognitive Science Program, University of California, Davis
- 2018–present** **Faculty affiliate**, Animal Behavior Graduate Group, University of California, Davis
- 2018–present** **Faculty affiliate**, Psychology Graduate Group, University of California, Davis
- 2015–2018** **Neukom Postdoctoral Fellow**, The Neukom Institute for Computational Science, Dartmouth College
- 2013–2015** **Postdoctoral researcher**, Disney Research Zurich, Walt Disney Imagineering, The Walt Disney Company
- 2015** **Lecturer**, Department of Human, Social, and Political Sciences (D-GESS), Swiss Federal Institute of Technology (ETH), Zürich, Switzerland

AFFILIATIONS

- Indiana University, Ostrom Workshop** — Faculty affiliate
- Metagovernance Project (metagov.org)** — Research director
- Computational Institutional Science Lab (cisl.info)** — Lab partner
- Syracuse University, Institutional Grammar Research Initiative** — Affiliate
- UC Davis, Designated Emphasis in Computational Social Science** — Affiliated faculty, Membership chair
- UC Davis, DataLab** — Senior Faculty Affiliate

OTHER TRAINING

- 2010–2013** Trainee, NSF/IGERT in the Dynamics of Brain-Body-Environment Systems, IU
2012 Student, Santa Fe Institute (SFI) Complex Systems Summer School, Santa Fe, NM
2006–2008 Student, New England Complex Systems Institute (NECSI), Cambridge, MA
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PUBLICATIONS (PEER-REVIEWED ARCHIVAL)

JOURNAL ARTICLES

- Chakraborti, M., Atkisson, C., Stanciulescu, S., Filkov, V., and Frey, S. (in review). Do We Run How We Say We Run? Formalisation and Practice of Governance in OSS Communities. <https://doi.org/10.48550/arXiv.2309.14245>
- Sawyer, A., Frey, S. (in review) Basketball super-teams or fair leagues? Parity policies by powerful regulators don't prevent capture.
- Bulat, B., Wang, H., Fujimoto, S., Frey, S. (in review) The Paradox of Volunteer Moderation: Tradeoffs Between Justice, Belonging and Norms in Online Community Governance.
- Chew, E., Weisman, W., Frey, S., Huang, J. (in review) Machine Translation for Accessible Multi-Language Text Analysis.
- Tchernichovski, O., Frey, S., Jacoby, N., Conley, D. (2023) "Incentivising free riders improves collective intelligence in social dilemmas" Proceedings of the National Academy of Science (PNAS) 120 (46) e2311497120 <https://doi.org/k4cr>
- Jhaver, S., Frey, S., & Zhang, A. X. (2023). Decentralizing Platform Power: A Design Space of Multi-Level Governance in Online Social Platforms. *Social Media + Society*, 9(4). <https://doi.org/k4ct>
- Frey, S., Hedges, J., Tan, J., Zahn, P. (2023) "Composing games into complex institutions" PLOS ONE <https://doi.org/j3vs>
- Korpas L.M., Frey S. and Tan J. (2023) Political, economic, and governance attitudes of blockchain users. *Front. Blockchain* 6:1125088. <https://doi.org/j37x>
- Gong, X., Huskey, R., Xue, H., Shen, C., Frey, S. (2023) Broadcast information diffusion processes on social media networks: exogenous events lead to more integrated public discourse, *Journal of Communication*, 73(3) 247–259, <https://doi.org/gr4xpn>
- Zhong, Q., Frey, S., & Hilbert, M. (2022). Quantifying the Selective, Stochastic, and Complementary Drivers of Institutional Evolution in Online Communities. *Entropy*, 24(9), 1185. <https://doi.org/jq57>
- Zhong, Q., Frey, S. (2022) Institutional similarity drives cultural similarity among online communities. *Nature Scientific Reports* 12, 18982. <https://doi.org/jq56>
- Zhong, Q., Hilbert, M., & Frey, S. (2022). Breaking the Structural Reinforcement: An Agent-Based Model on Cultural Consumption and Social Relations. *Social Science Computer Review*. <https://doi.org/hzkz>
- Wang, H.M., Bulat, B., Fujimoto, S., Frey, S. (2022). Governing for Free: Rule Process Effects on Reddit Moderator Motivations. In: Stephanidis, C., Antona, M., Ntoa, S., Salvendy, G. (eds) HCI International 2022 – Late Breaking Posters. HCII 2022. Communications in Computer and Information Science, vol 1655. Springer, Cham. <https://doi.org/jq6b>
- Frey, S., & Schneider, N. (2021). Effective voice: Beyond exit and affect in online communities. *New Media & Society*. <https://doi.org/gwpb>

- Rice D., Siddiki S., Frey S., Kwon H.K., Sawyer A. (2021) Machine coding of policy texts with the Institutional Grammar. *Public Admin*, 99: 248–262. <https://doi.org/ghzpst>
- Tchernichovski, O., Frey, S., Jacoby, N., Conley, D. (2021) Experimenting With Online Governance, *Frontiers in Human Dynamics* 3, 18 <https://doi.org/f8qw>
- Frey, S., Atkisson, C. (2020) A dynamic over games drives selfish agents to win-win outcomes. *Proc. R. Soc. B*.28720202630. <https://doi.org/fnq2>
- Hilbert, M., Barnett, G., Blumenstock, J., Contractor, N., Diesner, J., Frey, S., González-Bailón, S., Lamberson, P.J., Pan, J., Peng, T.-Q., Shen, C., Smaldino, P.E., van Atteveldt, W., Waldherr, A., Zhan, J., Zhu, J.J.H. (2019). Computational Communication Science: A Methodological Catalyzer for a Maturing Discipline. *International Journal of Communication*, 13, 23. <https://ijoc.org/index.php/ijoc/article/view/10675>
- Frey, S., Sumner, R.W. (2019) Emergence of integrated institutions in a large population of self-governing communities. *PLoS ONE* 14(7): e0216335. <https://doi.org/10.1371/journal.pone.0216335>
- Cook, A., Frey, S. (2018) “Reading in Time: Cognitive Dynamics and the Literary Experience of Shakespeare,” In L. Magnusson, & D. Schalkwyk, (Eds.), *The Cambridge Companion to Shakespeare’s Language*. Cambridge: Cambridge University Press.
- Strimling P., Frey, S. (2018) Emergent Cultural Differences in Online Communities’ Norms of Fairness. *Games and Culture*. <http://doi.org/gd84gz>
- Frey, S., Donnay, K., Helbing, D., Sumner, R. W., Bos, M. W. (2018) The rippling dynamics of valenced messages in naturalistic youth chat. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-018-1140-6>
- Frey, S. & Goldstone, R.L. (2018) Cognitive mechanisms for human flocking dynamics. *Journal of Computational Social Science* 1:349. <https://doi.org/10.1007/s42001-018-0017-x>
- Frey, S., Albino, D. K., & Williams, P. L. (2018). Synergistic Information Processing Encrypts Strategic Reasoning in Poker. *Cognitive science*. <http://doi.org/gdzpj6>
- Frey, S., Bos, M. W., and Sumner, R. W. (2017) “Can you moderate an unreadable message? ‘Blind’ content moderation via human computation” *Human Computation* 4:1:78–106. DOI: 10.15346/hc.v4i1.5
- Frey, S., Goldstone, R. L. (2016). “Does successful small-scale coordination help or hinder coordination at larger scales?” *Interaction Studies* 17(3). Available at <http://dx.doi.org/10.1075/is.17.3.03fre>
- Baghestanian, S., Frey, S. (2016). “GO Figure: Analytic and strategic skills are separable.” *Journal of Behavioral and Experimental Economics* 64(10) 71–80. <http://www.sciencedirect.com/science/article/pii/S2214804315000774>
- Frey, S. (2014). “Mixed human/entity games and the anomalous effects of misattributing strategic agency.” *Adaptive Behavior* 22(4) 266-276, <http://adb.sagepub.com/content/22/4/266.abstract>
- Galati, A., Burchas T., Siby, S., Frey S., Olivares M., Mangold S. (2014) "Mobile-enabled delay tolerant networking in rural developing regions" In *IEEE Global Humanitarian Technology Conference (GHTC 2014)*.
- Frey, S., Goldstone, R. L. (2013). Cyclic game dynamics driven by iterated reasoning. *PLoS ONE* 8(2): e56416. doi:10.1371/journal.pone.0056416. <http://dx.plos.org/10.1371/journal.pone.0056416>
- Goldstone, R. L., Wisdom, T. N., Roberts, M. E., Frey, S. (2013). Learning along with others. In B. H.

Ross (Ed.), *Psychology of Learning and Motivation* 58. (pp. 1-45). Academic Press, MA, USA.

Willer, R., Sharkey, A., Frey, S. (2012) Reciprocity on the Hardwood: Passing Patterns among Professional Basketball Players. *PLoS ONE* 7(12): e49807. <http://www.plosone.org/article/info:doi/10.1371/journal.pone.0049807>

CONFERENCE PROCEEDINGS

Chakraborti, M., Atkisson, C., Stanciulescu, S., Filkov, V., and Frey, S. (*in review*). Do We Run How We Say We Run? Formalisation and Practice of Governance in OSS Communities.

Chakraborti, M., Atkisson, C., Stanciulescu, S., Filkov V., Frey S. (*in review*) Conversation Mining and Semantic Analysis in OSS Communities for Governance Research

Yin, L., Chakraborti, M., Yan, Y., Schweik, C., Frey, S., & Filkov, V. (2022). Open Source Software Sustainability: Combining Institutional Analysis and Socio-Technical Networks. *Proceedings of the ACM on Human-Computer Interaction*. 6(CSCW2):404. pp1–23. <https://doi.org/jq58>

Frey, S., Zhong, Q. Q., Bulat, B., Weisman, W. D., Liu, C. M., Fujimoto, S., Wang, H., Schweik, C. M. (2022) Governing online goods: Maturity and formalization in Minecraft, Reddit, and World of Warcraft communities. *Proc. ACM Hum.-Comput. Interact*, 6(CSCW2):300, 1–25, <https://doi.org/jq59>

Schneider, N., De Filippi, P., Frey, S., Tan, J. Z., & Zhang, A. X. (2021). Modular politics: Toward a governance layer for online communities. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW1), 1-26. <https://doi.org/gwvx>

Frey, S., Krafft, P. M. and Keegan, B.C. (2019). "This Place Does What It Was Built For": Designing Digital Institutions for Participatory Change. *Proc. ACM Hum.-Comput. Interact*. 3, CSCW, <https://doi.org/10.1145/3359134>

Müller, S., Solenthaler, B., Kapadia, M., Frey, S., Klingler, S., Mann, R. P., Sumner, R. W., Gross, M. (2015). "HeapCraft: Interactive Data Exploration and Visualization Tools for Understanding and Influencing Player Behavior in Minecraft." In *Motion in Games (ACM MIG)*

Müller, S., Kapadia, M., Frey, S., Klingler, S., Solenthaler, B., Mann, R. P., Sumner, R. W., Gross, M. (2015). "Statistical analysis of player behavior in Minecraft." In *Foundations of Digital Games (FDG)*, Pacific Grove, California.

Müller, S., Frey, S., Kapadia, M., Klingler, S., Mann, R. P., Solenthaler, B., Sumner, R. W., Gross, M. (2015). "Quantifying and Predicting Collaboration in Shared Virtual Worlds." In *Artificial Intelligence and Interactive Digital Entertainment 2015 (AAAI AIIDE)*

Huber, R., Scheibehenne, B., Chapiro, A., Frey, S., Sumner, R. (2015). "The Influence of Visual Saliency on Video Consumption Behavior: A Survival Analysis Approach." *ACM Web Science*, Oxford-United Kingdom, 2015.

Deaton, S., Frey, S. (2009). Investigations of attractor behavior over the decay of modular RBNs. 10th European Conference on Artificial Life. Available at <http://arxiv.org/pdf/1005.3510>

DATASETS

Yan, Y., Frey, S., Zhang A., Filkov, V., Yin, L. (2023) GitHub OSS Governance File Dataset MSR2023 Data & Tool Showcase MSR23data-98 <https://doi.org/kvm4>

Frey, S. (2019) "Emergence of complex institutions in a large population of self-governing communities" [Dataset]. Dryad. <https://doi.org/gccz>

THESES

Frey, S. (2013) "Complex collective dynamics in human higher-level reasoning. A study over multiple methods," Dissertation, Indiana University. Available at <http://gradworks.umi.com/35/99/3599175.html>

GRANTS, HONORS, AND AWARDS

MAJOR GRANTS, HONORS, AND AWARDS

- 2023** **Ford Foundation.** Digital Infrastructure Insights Fund. *\$50,000*
- 2023** **International Centre for Mathematical Sciences (ICMS).** Compositional Game Theory for Governance Design. *\$30,000*
- 2022** **Google Open Source Foundation.** Workshop: OSS Sustainability Perspectives. *\$45,000*
- 2022** **NSF Designing Accountable Software Systems (DASS).** Collaborative Research: Transitioning OSS projects to accountable community governance. *\$749,927*
- 2021** **Smart Contract Research Forum.** Culture building in DAOs. *\$10,000*
- 2020** **Mozilla Foundation and Creative Commons.** Grant for the Web: The Metagovernance Project. *\$80,680*
- 2020** **NSF Growing Convergence Research (GCR).** Collaborative Research: Jumpstarting Successful Open-Source Software Projects With Evidence-Based Rules and Structures. *\$3,400,000*
- 2019** **NSF Research Coordination Network (RCN).** Coordinating and Advancing Analytical Approaches for Policy Design. *\$460,000*
- 2018** **University of California Office of the President: Innovative Learning Technology Initiative,** Social Science with Online Data. *\$109,000*
- 2015** **Neukom Postdoctoral Fellowship,** Neukom Institute for Computational Science, Dartmouth College. *3 yrs of support.*
- 2012** **Indiana Space Grant Consortium (NASA/INSGC) Fellowship.** *1 yr of support.*
- 2010** **NSF IGERT Traineeship.** *2 yrs of support.*
- 2006** **NECSI Advanced Training Program Student Fellowship.** *2 yrs of support.*

OTHER GRANTS, HONORS, AND AWARDS

- 2023** The Internet Archive, *In-kind venue support*
- 2022** IEEE ACSOS 2022, *Outstanding Service Award*
- 2020** ICA 2020, *Top paper, Computational Methods section*
- 2019** ACM CSCW 2019. *Honorable mention award for best paper*
- 2014** Indiana University Cognitive Science Program. *"Outstanding dissertation" award.*
- 2017** Neukom Institute for Computational Science Workshop Support. *\$11,000*
- 2012** NSF IGERT Summer Internship Program. *One summer of support.*
- 2012** NSF IGERT Summer Travel Award. *One month of travel support.*
- 2012** NSF Travel Grant & Research Fellowship. *One month of travel support.*
- 2011** NSF EAPSI. *One summer of support.*
- 2011** JSPS Summer Program Fellowship, Hokkaido University. *One summer of support.*
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TALKS

SELECTED PRESENTATIONS

- Frantz, C., Siddiki, S., Kamkhaji, J., Frey, S. "Advancing the Study of Policy Design and Dynamics through Computational Methods" ECPR Standing Group of Regulatory Governance, University of Antwerp, Belgium, 2023/07/13
- Jhaver, S., Frey, S., Zhang, A. "Decentralizing Platform Power: a Design Space of Multi-level Governance in Online Social Platforms" Platform Governance Research Network (PlatGovNet), 2023/04/03
- Frey, S., Bowen, C. "Chair: Transitioning resource systems from benevolent dictatorship to community management" International Association for the Study of the Commons, Nairobi, Kenya, 2023/06/23
- Frey, S. Roundtable on The Networked Leviathan by Paul Gowder, Northwestern University, 2023/11/03
- Frey, S. "Panelist: Standardization in Institutional Grammar Research" Institutional Grammar Research Initiative Conference, 2022/06/21
- Frey, S. "Chair: Computational Representations of Commons Institutions" IASC Knowledge Commons, 2021/06/9
- Frey, S. "Panelist: Machine Coding with the Institutional Grammar." The Institutional Grammar Workshop. Warsaw, Poland and Virtual 2020/08/06
- Frey, S. "Learning to govern" The building blocks of Web 3.0 Towards a Declaration of Interdependence of Cyberspace, Cambridge, MA, 2020/03/03
- Frey, S. "Moderator: Metagovernance: A Governance Layer for Online Communities", RadicalxChange, 2020/19/06
- Schneider, N., De Filippi, P., Frey, S., Tan, J. Z., & Zhang, A. X. "Modular Politics" Workshop on Distributed Infrastructure for Common Good, Delft, The Netherlands, 2020/12/7
- Siddiki, S., Frey, S. "Panelist: A Pedagogical Model for Instruction on Data Analytics for Public Policy Panel" Network of Schools of Public Policy, Affairs, and Administration (NASPAA), Los Angeles, CA, 2019/17/10
- Frey, S. "An automated comparative analysis of 5000 small scale self-governing online resource institutions" Midwest Political Science Association (MPSA) Chicago, IL, 2019/04/04
- Frey, S. "Panelist: Ostrom and the Design of Digital Institutions" Navigating the challenges of Multi-Site Research Workshop at ACM Computer-Supported Collaborative Work. NY, NY, 2018/03/11

INVITED TALKS

Large-scale computational institutional analysis. Computational Social Science, *Stanford University*; Invited lecture at BIGSSS Summer Schools in Computational Social Science, *University of Groningen*; Ostrom Workshop Colloquium, *Indiana University*; Workshop on Governing Knowledge Commons, *Villanova University*.

Governance of online designer societies. Major Transitions Workshop, *CRI Paris*; Recomputing Social Science, *UC Davis*; SEGS Talk, *University of Vermont*; Panelist talk, *IEEE Self-Adaptive and Self-Organizing Systems*; Invited talk, *Global Footprint Network*; Ostrom Workshop Colloquium, *Indiana University*; ASPIRE Research Symposium Keynote, *UC Davis*; MZES Sociology Seminar Series, *University of Mannheim*; Augmented Intelligence Workshop, *Indiana University*; Evolutionary Anthropology Colloquium, *UC Davis*.

Visualizing very-high dimensional spaces. ASPIRE Research Symposium Keynote, *UC Davis*

Social cognition with large online game datasets. Keynote at MUCSC, *Indiana University*; MIS Research Seminar, *MSU East Lansing*; Invited talk, *BBN Technologies*; Invited talk, *Champlain College*; Physics Colloquium, *UC Davis*; Center for Mind and Brain Idea Blitz, *UC Davis*; Psychology Colloquium, *UC Davis*.

Behavioral science of user-generated content. Tech talk, *Disney Research*.

Information theory and social information processing. *Physics Dept. Colloquium, UC Davis*; Invited speaker, *Networks in Cognitive Science Satellite at NetSci2019*

Expert information extraction and encryption in online poker. School of Computer Science Colloquium, *McGill University*; Behavioral Studies Colloquium, *ETH Zürich*; Economic Psychology, *University of Basel*; Business Administration, *University of Zurich*; Disney Data Analytics Conference, *The Walt Disney Company*.

Cyclic game dynamics driven by iterated reasoning. *International Conference on Computational Social Science (IC2S2 2015)*, Helsinki, Finland; Helbing Lab, *ETH Zürich*; Crisis Lab, *IMT Lucca*; Behavioral Group, *University of Warwick*; Cognition, Action, & Perception Speaker Series, *University of Cincinnati*; 2012 NSF/IGERT Competition, *NSF IGERT*, Washington DC; Behavioral Economics Seminar, *Indiana University*; Behavioral Sciences Group, *Hokkaido University*; Animal Behavior Colloquium, *UC Davis*.

TEACHING

COURSES

2020–present Social Science with Online Data (CMN 152V), UC Davis

2019–present Web Science Research Methods (CMN 212), UC Davis

2018–present Simulating Communication Processes (CMN 151/213), UC Davis

2021–2022 Data Visualization (CMN/POL/PSC/SOC 12), UC Davis

2017–2018 Science of Anarchy (QSS 30.07), Dartmouth College

2018 Experimental study of social behavior (PSYC 63), Dartmouth College

2015 Social Modeling and Mechanism Design (D-GESS 851-0585-37L), ETH Zurich

ADVISING

PhD advisees Qiankun Zhong (communication; *current*)
 Beril Bulat (communication; *current*)
 Mahasweta Chakraborti (communication; *current*)

Postdoctoral supervisees
 Brett Culbert (art history; *current*)
 Nicholas Vincent (computer science and communication)

Master's advising Sailendra Bonagiri
 Namrata Kasaraneni
 Aniket Bangiwar
 Stephan Müller

Bachelor's theses Hannah Wang (communication)
 Benjamin Packer (computer science)

ACADEMIC SERVICE

Journal reviewing: Policy Studies; International Journal of the Commons; Nature Human Behavior; Proceedings of the Royal Society B: Biological Sciences; Journal of the Royal Society: Interface; PLoS ONE; Complexity; Evolutionary Human Sciences; MethodsX; Systems Research and Behavioral Science; IEEE Access

Cognition; Cognitive Science; Behavior Research Methods; Perspectives on Psychological Science; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, and Cognition; Topics in Cognitive Science (TICS); Frontiers in Systems Neuroscience; Adaptive Behavior; Multivariate Behavioral Research

Journal of Communication; Communication Research; Communication Methods and Measures; Media and Communication; Media Psychology; Computational Communication Research; Behaviour & Information Technology; Communications Psychology; Computer Mediated Communication

Conference reviewing: International Association for the Study of the Commons (IASC), International Communication Association (ICA), International Conference on Social Informatics (SocInfo), Computer Human Interaction (CHI) Late Breaking Work, International Conference on Computational Social Science (IC2S2), Cognitive Futures, European Conference on Cognitive Science, Cognitive Science Society, ACM SIGGRAPH, Collective Intelligence, ACM Transactions on Autonomous and Adaptive Systems (TAAS), Hawaii International Conference on System Sciences (HICSS), ACM Computer-Supported Cooperative Work (CSCW).

Grant reviewing: National Science Foundation (NSF) 2019, 2021, 2021, 2022, 2023; Strasbourg Institute for Advanced Study, 2020; Association for Information Technology Trust, 2019

Organizing: Program Committee, *International Association for the Study of the Commons (IASC)* 2025; Invited Expert, *BIGSSS Summer Schools in Computational Social Science: Social Cohesion* 2022; Sponsorship Chair, *IEEE ACSOS* 2022; Steering Committee, *IASC Knowledge Commons* 2021; Program Committee, *WebScience* 2019; Program Committee, *IC2S2* 2015-2018; Program Committee, *CHI LBW* 2017; Program Committee, *SocInfo* 2016; Organizer, *"Science of Counter-Earth" Workshop*, Hanover, NH, USA 2017; <http://sites.dartmouth.edu/neukom/counter-earth/>; Guest editor, *Grassroots Economic Organizing, Ostrom Special Issue*: <http://geo.coop/vol-2/issue-9>

MEDIA AND PUBLIC OUTREACH

POPULAR ARTICLES AND TALKS

Frey, S., Benefield, G., Bernier, C., Bos, M., Budak, C., DeDeo, S., Farzan, R., Hill, B., Jacobs, A., Savage, S., Shaw, A. (2019) "Org-scale analytics: Today's startups build societies. Do it right." *Towards Data Science*. Available at <https://towardsdatascience.com/org-scale-analytics-todays-startups-build-societies-do-it-right-4f6185e81482>

Frey, S. (2019) "Bringing data to the science of community: Minecraft Edition" *Towards Data Science*. Available at <https://towardsdatascience.com/bringing-big-data-to-the-science-of-community-minecraft-edition-25938f43961a>

Frey, S., House, P., (2016). "The Unexpected Humanity of Robot Soccer." *Nautilus* 39.
Available at <http://nautil.us/issue/39/sport/the-unexpected-humanity-of-robot-soccer>

Hinchliffe, J.P., Frey, S. (2014). "Shakespeare's Genius is Nonsense." *Nautilus* 18.
Available at <http://nautil.us/issue/18/genius/shakespeares-genius-is-nonsense>

Frey, S. (2011) *TEDxBloomington*. <http://www.youtube.com/watch?v=DoO2WQMzCm4>

PRESS

Intentional community. Featured in *The New Yorker*, 7 July 2021.

Governance of designer societies. Interview on *Columbia Journalism Review Galley*, 30 March, 2020; Featured in *New York Times Magazine*, 14 April 2016; Featured in *Sacramento Bee*, 17, June 2019.

Cyclic dynamics driven by iterated reasoning. Interviewed in *BBC Radio 4* documentary, 5 Aug, 2015; Featured on *Smithsonian Magazine blog*, 21 Feb, 2013; Featured on *NBCnews.com*, 19 Feb, 2013; Interviewed in *Indiana University Alumni Magazine*.

OTHER ACTIVITIES

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| 2023 | Inventor on filed patent, area of co-living governance software |
| 2022–present | Advisory Board of Vital Arts, advocating affordable artist housing in the Bay Area |
| 2005–present | Hobbyist in printing and book arts |
| 2021 | Statistical consulting for wine analytics research project |
| 2018 | Survey consulting for sexual communication startup |
| 2015–2017 | Consulting for major media company, engagement in user-generated content |
| 2015 | Inventor on two filed patents, area of predictive video analytics |
| 2008–2013 | Co-founder and board of directors, Bloomington Cooperative Living Inc., a system of intentional communities in Bloomington, IN |
| 2010–2013 | Board of directors, National Association of Students of Cooperation (NASCO) |
| 2008–2010 | Paid to solve puzzles for Slocum Collection of puzzles at IU Lilly Library |
| 2006 | Fired by Buddhists; scientific career begins |