

## Lynette Shaw, Ph.D.

### Prior Academic Appointments

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- Asst. Professor, Complex Systems Sept. 2017 – August 2020  
Fellow, Michigan Society of Fellows, University of Michigan
- Lecturer and Research Fellow Aug. 2016 – Aug. 2017  
Center for the Study of Complex Systems, University of Michigan

### Education

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- 2016      Ph.D., Sociology, University of Washington  
Dissertation: “The Meanings of New Money: Social Constructions of Value in the Rise of Digital Currencies”  
Major exam: Theory (*with distinction*)  
Minor exam: Social Statistics Certificate, Center for Statistics and the Social Sciences
- 2011      MA, Sociology, University of Washington  
Thesis: “Evolving *Homo Sociologicus*”
- 2005      BA, Physics and Sociology (with Special Honors), University of Texas, Austin  
Minor: Mathematics

### Areas of Interest

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Cryptocurrency, Economic Sociology, Culture, Cognitive Sociology, Social Theory, Complex Systems, Computational Social Science, Statistical Methods, NLP

### Peer Reviewed Articles

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**Lynette Shaw.** Forthcoming. “On Rupture: Establishing the Cognitive Bases of Social Breaching and Their Implications for the Study of Social Change.” *Sociological Forum*.

Colin Megill, Chris Small, **Lynette Shaw**, Michael Bjorkegren, and Timo Erkillä. Forthcoming. “Polis: Scaling Deliberation by Mapping High Dimensional Opinion Spaces.” *Recerca*. (Special Issue on “Democracy in the Age of Artificial Intelligence”)

**Lynette Shaw.** Forthcoming. “The Inevitable Sociality of Money: Overcoming Conceptual Contradictions through Shared Practical Affirmation in the Construction of Bitcoin’s Value.” *Socio-Economic Review*.

**Lynette Shaw.** 2020. "Something Out of Nothing: a Bayesian Learning Computational Model for the Social Construction of Value." *The Journal of Mathematical Sociology*. 44:65-89

John Meluso\*, Jesse Austin-Breneman, and **Lynette Shaw.** 2019. "An agent-based model of miscommunication in complex system engineering organizations." *IEEE Systems Journal*

**Lynette Shaw.** 2015. "Mechanics and dynamics of social construction: Modeling the emergence of culture from individual mental representation." *Poetics*. 52:75-90

Katherine Stovel and **Lynette Shaw.** 2012. "Brokerage." *Annual Review of Sociology* 38:7.1-7.20

\* Indicates supervised graduate student co-author

### **Published Conference Proceedings**

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**Lynette Shaw.** 2018. "Social Valuation Dynamics for the Blockchain and Cryptocurrency Era." In A. Morales, C. Gershenson, D. Braha, A. Minai, & Y. Bar-Yam (Eds.) *International Conference on Complex Systems*. Cambridge, MA: STEM Academic Press.

### **Book Chapters**

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**Lynette Shaw.** 2019. "Charting the Emergence of the Cultural from the Cognitive with Agent-based Modeling." In W. Brekhus & G. Ignatow (Eds.), *Oxford Handbook of Cognitive Sociology*. New York, NY: Oxford University Press.

### **Manuscripts in Preparation**

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**Lynette Shaw.** "Capturing the Bitcoin Imaginary: What Cryptocurrency's Transformation from Radical Money to Financial Technology Reveals about Capitalist Innovation"

### **Research Awards and Grants**

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2019	Santa Fe Institute Science Fund Working Group: The Shapes and Shaping of Consensus in Online Conversations	\$3,800
2018	University of Michigan, MCubed Award Project: Implicitly ProSocial (P.I.)	\$15,000
2013, 2014	Center for Statistics and the Social Sciences Training Grants	\$2,000

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## **Honors, Awards, and Fellowships**

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- 2017 – 2020 Fellow, Michigan Society of Fellows, University of Michigan
- 2018 Honored Instructor Award, University of Michigan Student Housing
- 2012 “Excellence as a Teaching Assistant,” Sociology, University of Washington
- 2008 Clarence and Elissa Schrag Fellowship, Department of Sociology, University of Washington

## **Invited Talks**

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“What’s a Bitcoin Worth? Valuation and Categorization in the Rise of Digital Currency.”

- January 2019 University of Pennsylvania, Philosophy, Politics, and Economics Seminar  
September 2018 Binghamton University (SUNY), EvoS Seminar Series  
May 2018 Northwestern, Northwestern Institute on Complex Systems (NICO)  
August 2017 Information Overload: Challenges and Opportunities for Valuation in the Information Economy Symposium, Academy of Management Meeting

“Social Valuation Dynamics for the Blockchain and Cryptocurrency Era.”

- July 2018 Lau Lab, UCLA  
July 2018 MIT Media Lab Workshop on Blockchain Networks and Information Flow.  
International Conference on Complex Systems

“Cognition, Culture, and Complexity: Modeling the Emergence of Shared Social Realities from Individual Mental Representation.” / “Mechanics and Dynamics of Social Construction.”

- October 2019 Center for Behavior, Evolution, and Culture, UCLA  
May 2019 Goldin-Meadow Lab, University of Chicago  
January 2016 Institute for Analytical Sociology, Linköping University

## **Selected Presentations**

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“What’s a Bitcoin Worth? Valuation and Categorization in the Rise of Digital Currency.” Complex Systems Seminar Series, University of Michigan, Ann Arbor, May, 2018.

“Something Out of Nothing: a Computational Model for Social Valuation Processes.” Complex Systems Regular Session, American Sociological Association, Montreal, August 2017.

“Cognition, Culture, and Complexity: Modeling the Emergence of Shared Social Realities from Individual Mental Representation.” Complex Systems Seminar Series, University of Michigan, Ann Arbor, October, 2016.

“A Bitcoin’s Worth: Talks of Money and Value at the Advent of Digital Currency.” Economic Sociology Section Session, American Sociological Association, Seattle, August 2016.

“From Meaning to Behavior: the Associative Structure of Mental Representation, the Patterning of Social Life, and Cultural Analysis” Theory Section Session, American Sociological Association, Chicago, August 2015.

“Revelation as Revolution: Conscious Availability and the Stability (and Instability) of Social Orders,” Sociology of Culture Section Session, American Sociological Association, Chicago, August 2015.

“Mechanics and Dynamics of Social Construction: Mental Representation and the Emergence of Cultural Processes,” *International Network of Analytical Sociology* conference, Harvard, Cambridge, MA, June 2015.

“Mechanics and Dynamics of Social Construction,” *Being There: Phenomenology and Social Structure* conference, The New School for Social Research, New York, April 2014.

“Evolving *Homo Sociologicus*: Toward a Cognitive-Cultural Microfoundation for General Social Theory.” Sociology of Culture , American Sociological Association, Las Vegas, August 2011.

## **Professional Service**

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**Session Organizer:** “Computational Social Science, Culture, and Cultural Analysis.” American Sociological Association Meeting, Philadelphia, August 2018.

**Ad hoc reviewer:** *American Sociological Review, American Journal of Sociology, Socio-Economic Review, Social Psychology Quarterly, Poetics, Social Currents, IEEE-Systems*

## **Teaching and Advising Experience**

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### **Graduate Level**

Instructor for *Computer Models of Complex Systems* (Winter 2017, 2018), Teaching Assistant for *Applied Social Statistics I* (Fall 2013), *Applied Social Statistics II* (Winter 2014), *Methodology: Quantitative Techniques in Sociology* (Spring 2014)

### **Undergraduate Level**

Instructor for *Social Dynamics* (Fall 2016, 2018), *Sociological Theory* (Summer 2011), *Logic of Sociological Inquiry* (Summer 2013, 2014, 2016)

### **Ph.D. Committees**

John Meluso, Design Science, University of Michigan (*PhD. received Apr. 2020*)

## **Non-Profit Volunteer Positions**

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2020 - present      Advisory board member, *Space for Humanity*  
2019 - present      Founding board member, *The Computational Democracy Project*  
2013 –2018          Social science advisor, *Polis*

## **Additional Skills, Training, and Professional Development**

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### **Software Languages** (Intermediate – Proficient)

Netlogo, R, Python

### **Workshop Participation**

2019              Postdocs in Complexity Conference, Santa Fe Institute  
2018              Diverse Intelligences Summer Institute, University of St. Andrews.  
2013, 2014      Graduate Workshop in Computational Social Science. Santa Fe Institute.  
2010              Complex Systems Summer School. Santa Fe Institute.

### **Working Groups**

2019              Shapes and Shaping of Consensus in Online Conversations, Santa Fe Institute  
2019              The Point of No Return: System Entrenchment, Santa Fe Institute

## **Public Engagement and Media Coverage/Mentions**

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Invited remarks. Halo Event by Space for Humanity. Littleton, CO. February, 2020

“What’s a Bitcoin Worth?” (Public talk). Shady Ladies Literary Society. Detroit, MI. October, 2018.

“Digital Dollars” by Elizabeth Wason, *LSA Magazine*. Fall 2018.

“How Trust Shapes Nations' Safety Rules” by Veronique Greenwood. *The Atlantic*. November 1, 2017.

“Revelation as Revolution: How culture gets into our heads and how we can change it once it’s there.” ACTTech Think Tank, A Contemporary Theater (ACT), Seattle, October, 2016.

“Physicists at the Gate: Collaboration and Tribalism in Science” by Veronique Greenwood. *Undark*. March 28, 2016.

“The Subversiveness of Imagination: How Wearing Your Tutu Incites Cultural Revolution.” Occupy the Imagination Speaker Series, Burning Man, Black Rock City, NV, August 2012.