

# Robert Ward

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## Education

Ph.D. Public Policy | Georgia Institute of Technology | *Student*  
M.S. Computer Science | Georgia Institute of Technology | *Student*  
M.P.A. John Glenn College of Public Affairs | The Ohio State University | 2019  
B.S. Molecular Genetics | The Ohio State University | 2017

## Positions

2019– CRI Paris (INSERM-Université de Paris)  
Visiting Doctoral Student  
Marc Santolini | Interaction Data Lab  
2019– Georgia Institute of Technology  
Graduate Research Assistant  
Philip Shapira | Science, Technology and Innovation Policy  
2018–19 The Ohio State University  
Graduate Research Associate  
Battelle Center for Science, Engineering, and Public Policy  
2014–16 The Ohio State University  
Undergraduate Research Assistant  
Jay Hollick | Department of Molecular Genetics

## Research Areas

Organizations, Networks, Science, Technology and Innovation,

## Publications

### *In Print*

2021 Jan Youtie, Robert Ward, Philip Shapira, R. Sandra Schillo & E. Louise Earl. “Exploring new approaches to understanding innovation ecosystems”, *Technology Analysis & Strategic Management*. 10.1080/09537325.2021.1972965  
2021 Robert Ward, Philip Shapira, Alan Porter, Nils Newman. “Corporate engagement with nanotechnology through research publications”, *Journal of Nanoparticle Research*. 10.1007/s11051-021-05195-4

- 2021 Zhang, Yi, Mengjia Wu, Zhengyin Hu, Robert Ward, Xue Zhang, Alan Porter “Profiling and predicting the problem-solving patterns in China’s research systems: A methodology of intelligent bibliometrics and empirical insights”, *Quantitative Science Studies*. 10.1162/qss\_a\_00100

### **Works in Progress**

‡Denotes authors in alphabetical order.

1. Santolini, Marc, Megan J. Palmer, Leo Blondel, Robert Ward, Rathin Jerayam, Abhijeet Krishna, Brian Uzzi, Albert-Laszlo Barabasi. “Team Performance and Improvement in an Open Science and Engineering Ecosystem”
2. Ward, Robert, Jan Youtie, Philip Shapira. “The Search for COVID-19 Vaccines and Therapeutics”
3. Ward, Robert, Jan Youtie, Philip Shapira. “Structural Embeddedness and Firm R&D Performance: Evidence from COVID-19 Drug Development”
4. Ward, Robert, Gaurav Verma, Seokkyun Woo. “The Paradox of Integration: Interdisciplinary Research and Disciplinary Evaluation”
5. Singh, Chakresh, Emma Barme, Robert Ward, Liubova Tupikina, Marc Santolini. “Quantifying the rise and fall of scientific fields” arXiv:2107.03749
6. Tupikina, Liubov, Chakresh Singh, Robert Ward, Marc Santolini. “Evolution of Scientific Fields”
7. ‡McGail, Alec, Aaron Mendon-Plasek, Robert Ward. “Science in Motion”

### **Campus and Seminar Talks**

- 2021 Robert Ward, Jan Youtie, Philip Shapira. “Networks, Knowledge and Search Speed: Evidence from Covid-19 Drug Development”. Workshop on Original Policy Research (WOPR), Georgia Institute of Technology, Atlanta, Georgia. Apr 9th *Virtual*.

### **Conference Activity**

#### **Presentations**

Presenting author *italicized*, if other.

- 2021 Robert Ward, Gaurav Verma, Seokkyun Woo. “The Paradox of Integration: Interdisciplinary Research and Disciplinary Evaluation” 6th Summer School on Data and Algorithms for ST&I studies Aristotle University of Thessaloniki-KU Leuven. Sep 22-24. *Virtual*.
- 2021 Youtie, Jan, Robert Ward, *Philip Shapira*, Sandra Schillo, E. Louise Earl. “Exploring New Approaches to Understanding Innovation Ecosystems”. 4POINT0 2021 International Conference. May 10-13, *Virtual*.
- 2020 Robert Ward, Jan Youtie, Philip Shapira. “The Search for Clinical Solutions.” 10th Global TechMining Conference. Nov 11–13 *Virtual*.

#### **Sessions Organized**

- 2021 NetOpen21: Modeling open innovation communities with network science." Satellite at Networks 2021: A Joint Sunbelt and NetSci Conference. Co-organizer with Marc Santolini (CRI Paris), Liubov Tupikina (Bell Labs) and Juniper Lovato (Vermont Complex Systems Center). Jun 30th *Virtual*. [interactiondatalab.com/netopen21](https://interactiondatalab.com/netopen21)

## **Participation**

- 2021 Networks 2021: A Joint Sunbelt and NetSci Conference. Jul 5–10 *Virtual*.
- 2020 14th Workshop on The Organisation, Economics and Policy of Scientific Research (WOEPSR). Jul 9–10 *Virtual*. | American Sociological Association (ASA) Annual Meeting. Aug 7–12 *Virtual*.
- 2019 Roundtable for Engineering Entrepreneurship Research (REER). Atlanta, GA. Nov 8–10. | 9th Global TechMining Conference. Atlanta, GA. Oct 17. | Atlanta Conference on Science and Innovation Policy. Atlanta, GA. Oct 14–16.

## **Workshops and Summer Schools**

- 2021 Society of Young Network Scientists (SYNS) Networks 2021 Pre-Conference Workshop. Jun 26 *Virtual*. | Science of Science Summer School, iSchool, Syracuse University. Jul 26-Aug 8 *Virtual*.

## **Grants and Awards**

### **Grants and Fellowships**

- 2022-24 Subaward | French National Research Agency (ANR): AAPG2021, "Quantitative assessment of open collaborations in science and engineering" | \$7,000
- 2021 Travel Grant | Google / KU Leuven to attend "Summer School on Data and Algorithms for Science, Technology & Innovation Studies" | €1,000 — Declined due to COVID-19
- 2019-23 President's Fellowship | \$ 22,000

## **Teaching**

### **The Ohio State University**

- 2019 Instructor for iGEM at The Ohio State University

## **Reviewing**

### **Journals**

- 2019– Research Policy
- 2019 IEEE TEM

### **Conferences**

- 2020 10th Global TechMining Conference

## **Service**

- 2020 Contributor to *OpenCovid19*, Just One Giant Lab (JOGL)
- 2019 Member of Judging Committee, International Genetically Engineered Machine Competition (iGEM)

## **Other Projects**

### ***Georgia Tech STIP***

- 2020      *Technology Forecasting* for Army Research Lab | *Corporate Entry into Nanotechnology* for NSF Subcommittee on Nanoscale Science, Engineering and Technology (NSET) | *Social Network Analysis* for Southeastern Nanotechnology Infrastructure Corridor (SENIC)
- 2019      *Scientific Impacts of the Georgia Sea Grant* delivered to UGA Marine Extension and Georgia Sea Grant | *Social Network Analysis* for Georgia Tech Center for Space Technology and Research (CSTEP)

### ***Battelle Center for Science, Engineering and Public Policy***

- 2019      *Improving the Cybersecurity and Cost Effectiveness of USAF Industrial Control Systems* for the Air Force Installation Contracting Agency (AFICA/KA) | *DRC Ebola Response Platform*.