Samuel F. Rosenblatt

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Education

University of Vermont   *Sept. 2018 – Jan. 2024*

Ph.D. Candidate, Department of Computer Science

– Advisor: Laurent Hébert-Dufresne
– Research Group: Laboratory of Structure and Dynamics

St. Mary's College of Maryland   *May 2018*

Bachelor of Science in Sociology, Computer Science, and Mathematics

– Summa Cum Laude, Phi Beta Kappa Honors Society

Positions

Laboratory for Structure and Dynamics   *Aug. 2018 - present*
Vermont Complex Systems Center, University of Vermont

– Modeling interventions for network contagion
– Computational social science research on toxicity in online communities
– Large scale agent-based models of biosecurity in humans and livestock

Research Intern — Center on Social Dynamics and Policy   *Jun. - Aug. 2021*
Brookings Institution

– Agent-based modeling of policy interventions on COVID-19
– Work presented to U.S. Congress subcommittee and Whitehouse task force

Communications Director — Congregational Summer Assembly   *May - Aug. 2018*

– Directed multiple social media accounts for a non-profit organization
– Conducted analytic testing for maximum engagement

REU (NSF) researcher — Minority Health Disparities Initiative   *May 2016 - Aug. 2017*
University of Nebraska-Lincoln

– Summer 2016:
  - Cleaned and analyzed interviews and field notes to construct network data
  - Network modeling of people who inject drugs in rural Puerto Rico
– Summer 2017:
  - Agent-based modeling of network contagion intervention given missing data
  - Trained 1st year REU students as first point of contact, underneath mutual mentor

Student Consultant — Calvert Nature Society (CNS)   *Jan. - May 2016*

– Hedonic pricing analysis of the effect of proximity to parks on home value using GIS

Economics Research Assistant — Credit Risk Analysis Division   *May - Aug. 2015*
Office of the Comptroller of the Currency-U.S. Department of the Treasury

– Terabyte scale data management, cleaning, analysis, and visualization
– Algorithmic time complexity analysis

Selected Honors and Awards

- Best paper: Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (ACL WASSA)   *2022*
- UVM Graduate College Travel Minigrant   *2018, 2019, 2022*
- 1st Place: Best Project – Net-COVID workshop (University of Maryland)   *2020*
- CEMS Graduate Student Scholarship   *2019*
- NSF Fellowship: Quantitative and Evolutionary STEM Traineeship (QuEST)   *2018-2020*
- Provost's Conference Funding Award for Southern Regional Honors Council Annual Meeting   *2017*
- Travel award: Emerging Researchers National (ERN) Conference in STEM   *2017*

Publications and Presentations

Refereed Publications

1. [Accepted] **Rosenblatt, S. F**., O'Gara, D., Hébert-Dufresne, L., Purcell, R., Kasman, M., & Hammond, R. (2023, March). TRACE-Omicron: Policy Counterfactuals to Inform Mitigation of COVID-19 Spread in the United States. Advanced Theory and Simulations.
2. Minot, J., Trujillo, M. Z., **Rosenblatt, S. F.**, de Anda Jáuregui, G., Moog, E., Samson, B. P. V., Hébert-Dufresne, L., & Roth, A. M. (2022, May). Distinguishing In-Groups and Onlookers by Language Use. In Proceedings of the 12th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (pp. 127-137). Association for Computational Linguistics.
3. Warrick, M., **Rosenblatt, S. F.**, Young, J. G., Casari, A., Hébert-Dufresne, L., & Bagrow, J. P. (2022, May). The OCEAN mailing list data set: Network analysis spanning mailing lists and code repositories. In 2022 IEEE/ACM 19th International Conference on Mining Software Repositories (MSR) (pp. 484-488). IEEE.
4. Trujillo, M., **Rosenblatt, S. F.**, de Anda Jáuregui, G., Moog, E., Samson, B. P. V., Hébert-Dufresne, L., & Roth, A. M. (2021, August). When the Echo Chamber Shatters: Examining the Use of Community-Specific Language Post-Subreddit Ban. In Proceedings of the 5th Workshop on Online Abuse and Harms (WOAH 2021) (pp. 164-178). Association for Computational Linguistics.
5. **Rosenblatt, S. F.**, Smith, J. A., Gauthier, G. R., & Hébert-Dufresne, L. (2020). Immunization strategies in networks with missing data. PLOS Computational Biology, 16(7), e1007897.

Oral Presentations

1. **Rosenblatt, S. F.**, Casari, A., Dey, S., Woods, W., & Hébert-Dufresne, L. (2022, July). Open is not always welcoming: Examining how toxic interpersonal signals impact and reflect collaboration and prestige in the open-source Python language development community. Sunbelt 2022
2. **Rosenblatt, S. F.**, Warrick, M., Young, J. G., Casari, A., Hébert-Dufresne, L., & Bagrow, J. P. (2022, April). The OCEAN mailing list dataset: network analysis spanning mailing lists and code. University of Vermont Student Research Conference.

3. **Rosenblatt, S. F.**, & Hébert-Dufresne, L. (2021, July). Effectiveness of strategic synchronous snowball sampling for network immunization. In Networks 2021: A Joint Sunbelt and NetSci Conference.
4. **Rosenblatt, S. F.**, & Minot, J. (2020, July). Top(ological) news: Examining the social-media discourse around current events as a dynamic weighted network. Sunbelt 2020.
5. **Rosenblatt, S. F.**, Shugars, S., Hébert-Dufresne, L., & Dombrowski, K. (2019, June). Viable targeted immunization strategies in complex networks: Addressing the boundary specification problem. Sunbelt 2019
6. **Rosenblatt, S.F.**, Smith, J. Gauthier, R.G., Making the Most of the Network Data We Have: The Robustness of Efficacy for Targeted Immunization Strategies (2018). Sunbelt 2018, NetSci 2018 Satellite (Contagion & Networks), and Southern Regional Honors Council Conference

Posters
1. **Rosenblatt, S. F.**, Smith, J. A., Gauthier, G. R., & Hébert-Dufresne, L. (2020, September). Strategic Synchronous Snowball Sampling Immunization. NetSci 2020
2. **Rosenblatt, S. F.**, & Dombrowski, K. (2017). Efficacy-Robustness: Optimizing Network-Based Disease Interventions in Realistic Data Collection Scenarios. University of Nebraska-Lincoln Summer Research Symposium.
3. **Rosenblatt, S. F.**, & Dombrowski, K. (2017). Stable Bridges: Using Risk Brokerage to Inform Intervention Targeting Strategies in Disease Networks. Emerging Researchers National Conference.
4. **Rosenblatt, S. F.**, & Dombrowski, K. (2016). Hidden Risk: Examining Risk Brokerage in Intravenous Drug User Networks in Rural Puerto Rico. University of Nebraska-Lincoln Summer Research Symposium

Other Publications
1. **Rosenblatt, S. F**., O'Gara, D., Hébert-Dufresne, L., Purcell, R., Kasman, M., & Hammond, R. (2023, March). TRACE – Omicron and Beyond. Web publication
2. **Rosenblatt, S. F.**, Lohff, E., Kruse, L. Henderson, A. The Value of Preserved Land: A Hedonic Pricing Analysis of Land Use in Calvert County, Maryland (2016)**.** Whitepaper

Teaching

– Graduate Teaching Assistant – Introduction to Python   *2020*
– Peer Mentor and Assistant Instructor – Cities: Place and Space, freshman seminar   *2017*
   ▪ *Assisted all aspects including creation of the syllabus and lesson plans*
– Undergraduate Teaching Assistant – Survey of Mathematics   *2016*

Talks and Invited Lectures

– Guest Lecture – QuEST Graduate Seminar: Introduction to cluster computing   *2022*
– Invited talk – Complex Systems Society 2022 conference warm-up panel: Networking about networks over (internet) networks   *2022*
– Guest Lecture – Modeling Complex Systems: ABMs on networks   *2019, 2021, 2022*
– Student Complexity Research and Pizza Seminar (SCRaPS)
  ▪ Network science in swine biosecurity   *2023*
  ▪ Introduction to cluster computing at UVM   *2022*
  ▪ Strategic synchronous snowball sampling for network immunization   *2021*
  ▪ Network immunization and the boundary specification problem   *2020*
  ▪ Targeted immunization on networks with missing data   *2019*

Service

Outreach Officer — Society of Young Network Scientists (SYNS)   *2019 – present*
– Elected director of outreach for 300+ member international organization
– Lead organizer for NetSci2020 Pre-Conference Workshop with speakers Federico Levi (*Nature*) and Serena Bradde, Dario Corradini (*Physical Review E*/*Physical Review X*)
– Lead organizer for Networks 2021 (Joint NetSci and Sunbelt Conference) SYNS Pre-Conference Workshop with speakers Sune Lehman and Alice C. Schwarze

Student Complexity Research and Pizza Seminar (SCRaPS)   *2022- present*
– Co-lead organizer for weekly lunch seminar series

Science Outreach & Communication QuEST group (SOCQs)
– Organized "A Skeptic's Guide to Scientific Writing" Dr. Stefano Allesina   *2021*
– Organized "Managing Academic, Private and Public Partnerships" Dr. Melissa Nolan *2019*

Disease Detectives — Judge/Event Designer: Vermont Science Olympiad   *2019, 2021, 2022*
– Organized, led, and scored an event for a statewide competition

Chair — Young Assembly Adults Subcommittee (YAAS)   *Aug. 2018 - present*
– Founded subcommittee to organize volunteer activities for young adults within a cooperative living community in northern Michigan

Membership

– Communications Committee – Congregational Summer Assembly   *2018 - present*
– Alpha Kappa Delta (sociology honor society) – Mu Chapter   *2017 - present*
– Philosophy Club Treasurer – St. Mary's College of Maryland   *2017 - 2018*
– Math Club Treasurer – St. Mary's College of Maryland   *2015 - 2016*
– LINK Group Network Science Consortium   *2016 - present*

Professional Development

- Privacy and Ethics in Pandemic Data Collection and Processing Workshop, Brown University School of Public Health, Providence, RI *2023*
- Complex Networks Winter Workshop, Virtual *2021*
- Net-COVID: Understanding and Exploring Network Epidemiology in the Time of Coronavirus *2020*
- Complex Networks Winter Workshop, Quebec City *2019*
- Complex Networks Winter Workshop, Quebec City *2018*