Samuel F. Rosenblatt

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Education

University of Vermont   *Fall 2018 - present*

Ph.D. Candidate, Department of Computer Science
– Advisor: Laurent Hébert-Dufresne
– Research Assistantship: Laboratory of Structure and Dynamics

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

Bachelor of Science in Sociology, Computer Science, and Mathematics
– Graduated 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

Research Intern - Center for Social Dynamics and Policy   *Jun. - Aug. 2021*
Brookings Institution
– Agent-based computational modeling of policy interventions on COVID-19
– Applied scientific computing practices to improve model runtime by a factor of 100

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
  ▪ Statistical modeling of network 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 using GIS of the effect of proximity to parks on home value

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 using SAS
- Algorithmic time complexity analysis and benchmark analysis

Service

Outreach Officer — Society of Young Network Scientists (SYNS) *Jul. 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

Disease Detectives: Judge/Event Designer– Vermont Science Olympiad *2019, 2021, 2022*
Science Outreach & Communication QuEST group (SOCQs)
SOCQs Workshops Organized:
- "A Skeptic's Guide to Scientific Writing" with Dr. Stefano Allesina *Apr. 2021*
- "Managing Academic, Private and Public Partnerships" with Dr. Melissa Nolan *Apr. 2019*

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

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

Honors and Awards

- 1st Place: Best Project – Net-COVID workshop (University of Maryland) *2020*
- Complex Networks Winter Workshop Fee Waiver *2019*
- CEMS Graduate Student Scholarship Recipient *2019*
- UVM Graduate College Minigrant *2018*
- Fellowship from the NSF Research Traineeship QuEST *2018*
- Provost's Conference Funding Award for Southern Regional Honors Council Annual Meeting *2017*

Publicatdions and Presentations

Refereed Publications
1. [Accepted] 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*.
2. [Accepted] 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)* IEEE. https://arxiv.org/pdf/2204.00603.pdf
3. Trujillo, M., **Rosenblatt, S.**, 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). http://doi.org/10.18653/v1/2021.woah-1.18
4. **S. F. 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. https://doi.org/10.1371/journal.pcbi.1007897

Oral Presentations
1. The OCEAN mailing list dataset: network analysis spanning mailing lists and code. (April 2022). Samuel F. Rosenblatt, Melanie Warrick, Jean-Gabriel Young, Amanda Casari, Laurent Hébert-Dufresne, & James P. Bagrow. *University of Vermont Student Research Conference.*
2. Effectiveness of strategic synchronous snowball sampling for network immunization (July. 2021). Samuel. F. Rosenblatt, Laurent Hébert-Dufresne*. Networks 2021: A Joint Sunbelt and NetSci Conference*
3. Top(ological) News: Examining the Social-Media Discourse Around Current Events as a Dynamic Weighted Network (July 2020). Samuel F. Rosenblatt and Joshua Minot. *Sunbelt Social Networks Conference of the International Network for Social Network Analysis (INSNA)*
4. Viable Targeted Immunization Strategies in Complex Networks: Addressing the Boundary Specification Problem (June 2019). Samuel Rosenblatt, Sarah Shugars, Laurent Hébert-Dufresne, Kirk Dombrowski. *Sunbelt Social Networks Conference of the International Network for Social Network Analysis (INSNA)*
5. Making the Most of the Network Data We Have: The Robustness of Efficacy for Targeted Immunization Strategies (2018). Samuel Rosenblatt, Jeffrey Smith, G. Robin Gauthier. *Sunbelt Social Networks Conference of the International Network for Social Network Analysis (INSNA), NetSci 2018 Satellite (Contagion & Networks), and Southern Regional Honors Council Conference*

Posters
1. Strategic Synchronous Snowball Sampling Immunization (Sept. 2020). Samuel. F. Rosenblatt, Jeffrey A. Smith, G. Robin. Gauthier, and Laurent Hébert-Dufresne*. The International School and Conference on Network Science (NetSci)*
2. Efficacy-Robustness: Optimizing Network-Based Disease Interventions in Realistic Data Collection Scenarios (2017). Samuel Rosenblatt, Kirk Dombrowski. *University of Nebraska-Lincoln Summer Research Symposium*
3. Stable Bridges: Using Risk Brokerage to Inform Intervention Targeting Strategies in Disease Networks (2017). Samuel Rosenblatt, Kirk Dombrowski. *Emerging Researchers National Conference*
4. Hidden Risk: Examining Risk Brokerage in Intravenous Drug User Networks in Rural Puerto Rico (2016). Samuel Rosenblatt, Kirk Dombrowski. *University of Nebraska-Lincoln Summer Research Symposium*

Whitepapers
The Value of Preserved Land: A Hedonic Pricing Analysis of Land Use in Calvert County, Maryland (2016)**.** Samuel Rosenblatt, Emily Lohff, Laura Kruse, Amy Henderson

Professional Development

• Complex Networks Winter Workshop, Virtual	*2020*
• 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*