Hans William Alexander Hanley

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Homepage, Blog, CV

Education

PhD Computer Science, Stanford University, GPA: 4.031 — *2020-2025*
Meta PhD Research Fellow: Computational Social Science — *Stanford, CA*
National Science Foundation Graduate Fellow

MSc Statistical Science, University of Oxford, 2020, Distinction (Highest Honors) — *2019-2020*
Daniel M. Sachs Class of 1960 Graduating Scholarship at Worcester College — *Oxford, UK*

MSc Advanced Computer Science, University of Oxford, 2019, Distinction (Highest Honors) — *2018-2019*
Daniel M. Sachs Class of 1960 Graduating Scholarship at Worcester College — *Oxford, UK*

BSE Electrical Engineering, Princeton University, 2018, Highest Honors, GPA: 3.982 — *2014-2018*
Concentration: Information Security and Privacy — *Princeton, NJ*
Minors: Applications of Computing, Robotics and Intelligent Systems

Proficient Languages: Java, Python, C, Go, R, Git, TensorFlow, PyTorch, Huggingface
Experienced Languages: Mandarin Chinese (HSK 4), MATLAB, C#, C++

Professional Experience

Microsoft Software Engineering Intern — *Summer 2018*
Microsoft Business Applications Group Data Engine Team Software Intern, — *Seattle, WA*

- Implemented a new framework in C# for Microsoft Business Application Group's mobile offline synchronization tool allowing the tool to scale more efficiently to 2x the number of users while reducing synchronizing time by 75%.
- Tested newly designed framework by utilizing 7 unique load and stress tests on a 30 server scale group to ensure the robustness of the implementation.
- Created concurrent row versioning feature across multiple servers for use in the mobile offline synchronization tool allowing more efficient data retrieval.

Google Software Engineering Intern — *Summer 2017*
Google Gmail Security Team Software Intern — *Sunnyvale, CA*

- Designed and implemented a new security feature for Gmail Android to analyze outgoing email addresses and reduce user vulnerability.
- Implemented client security logic to decrease client requests' latency and bandwidth for processing recipient addresses to the Gmail backend server.
- Refactored and streamlined Gmail frontend and backend code to improve reliability and readability of code analyzing outgoing recipient addresses.

Select Publications, See Google Scholar

1. **Specious Sites: Tracking the Spread and Sway of Spurious News Stories at Scale**
   Hans Hanley, Deepak Kumar, Zakir Durumeric
   In 45th IEEE Symposium on Security and Privacy (Oakland 2024), May 2024.
2. **TATA: Stance Detection via Topic-Agnostic and Topic-Aware Embeddings**
   Hans Hanley and Zakir Durumeric
   In 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023), December 2023
3. **Machine-Made Media: Monitoring the Mobilization of Machine-Generated Articles on Misinformation and Mainstream News Websites**
   Hans Hanley and Zakir Durumeric
   In 18th International AAAI Conference on Web and Social Media (ICWSM), June 2024
4. **Partial Mobilization: Tracking Multilingual Information Flows Amongst Russian Media Outlets and Telegram**
   Hans Hanley and Zakir Durumeric
   In 18th International AAAI Conference on Web and Social Media (ICWSM), June 2024.
5. **Happenstance: Utilizing Semantic Search to Track Russian State Media Narratives about the Russo-Ukrainian War On Reddit**
   Hans Hanley, Deepak Kumar, Zakir Durumeric
   In 17th International AAAI Conference on Web and Social Media (ICWSM 2023), June 2023.