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## **Benjamin D. Horne**

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### **ACADEMIC APPOINTMENTS**

**The University of Tennessee Knoxville**, School of Information Sciences, Fall 2020 - present  
*Assistant Professor of Information Sciences*

**Rensselaer Polytechnic Institute**, Computer Science, Fall 2014 - Spring 2020

*Graduate Research Assistant* - Fall 2014, Spring 2017 - Spring 2020

*NSF GK-12 Teaching Fellow* - Summer 2015 - Fall 2016

*Graduate Teaching Assistant* - Spring 2015

**U.S. Army Research Laboratory**, Network Science Research Laboratory, Summer 2017

*Visiting Graduate Researcher*

**Cornell University**, Information Sciences, Summer 2013

*NSF Undergraduate Researcher*

**Texas Tech University**, Computer Science, Summer 2012

*NSF Undergraduate Researcher*

### **INDUSTRY EXPERIENCE**

**Steele Martin Jones and Company**, I.T. Administrator, Summer 2011 - Spring 2014

**Home Medical Products Inc.**, I.T. Technician, Spring 2011 - Summer 2011

### **EDUCATION**

**Ph.D. in Computer Science**, Rensselaer Polytechnic Institute, 2014 - 2020

DISSERTATION: Robust News Veracity Detection

COMMITTEE: Sibel Adali (CS, RPI; Chair), Lirong Xia (CS, RPI), Stacy Patterson (CS, RPI), Dorit Nevo (Business, RPI), and Tamar Gordon (Communications, RPI)

**B.S. in Computer Science**, Union University, 2010 - 2014

**B.S. in Business Administration**, Union University, 2010 - 2014

**I.T. and Network Fundamentals**, Vanguard-Sentinel Career & Technology Center, 2008 - 2010

### **PUBLICATIONS**

**Number of peer-reviewed, archived publications:** 36

**Total citations (Google Scholar October 2022):** 1144

**H-Index (Google Scholar October 2022):** 15

**Dataset Downloads (Dataverse October 2022):** 14,792

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Notes: In computing, students are first authors, while the lab leader is last author.

\* indicates UTK student authors at the time of submission

### Book Chapters:

**BC1.** Fake News Starts with the Title

Chapter 9. "Language That Manipulates: Politics, Advertising, and Doublespeak" in  
Language Awareness: Readings for College Writers. 13th Edition by P. Eschholz, A.  
Rosa, and V. Clark. Macmillan Learning. 2020  
Benjamin D. Horne

### Journals (peer-reviewed, archival):

**J1.** Forking Paths of Cultural Complexity: A Case Study of Research Paradigms  
Advances in Complex Systems (ACS) 2022

Joshua Borycz, Benjamin D. Horne, and R. Alexander Bentley

**J2.** Monitoring event-driven dynamics on Twitter: A case study in Belarus  
Springer Nature Social Sciences (SNSS) 2022

Natalie M. Rice, Benjamin D. Horne, Catherine Luther, Joshua Borycz, Suzie L. Allard,  
Damian J. Ruck, Michael Fitzgerald, Oleg Manaev, Brandon C. Prins, Maureen Taylor,  
and R. Alexander Bentley

**J3.** The Reasoning Behind Fake News Assessments: A Linguistic Analysis  
AIS Transactions on Human-Computer Interaction (THCI) 2022

Lydia Manikonda, Dorit Nevo, Benjamin D. Horne, Clare Arrington, and Sibel Adali

**J4.** How Topic Novelty Impacts the Effectiveness of News Veracity Interventions  
Communications of the ACM (CACM) 2022

Dorit Nevo and Benjamin D. Horne

**J5.** Partisanship over security: Public narratives via Twitter on Foreign Interferences in the  
2016 and 2020 U.S. Presidential Elections  
First Monday 2021

Catherine A. Luther, Benjamin D. Horne, and Xu Zhang

**J6.** Tailoring Heuristics and Timing AI Interventions for Supporting News Veracity  
Assessments

Computers in Human Behavior Reports (CHB Reports) 2020

Benjamin D. Horne, Dorit Nevo, Sibel Adali, Lydia Manikonda, Clare Arrington

**Media Coverage:** IEEE Spectrum, RPI News, ACM TechNews, Electronics360, Tech  
Xplore, Scienmag, Newswise, The Next Web, Tech Monitor

**J7.** Effects of Priming Messages to Decrease Negativity in Online Learning Environments  
APA Scholarship of Teaching and Learning in Psychology 2020

Hung-Tao Chen, Benjamin D. Horne, Dan Florrel, Megan Thomas

**J8.** Robust Fake News Detection Over Time and Attack

ACM Transactions on Intelligent Systems and Technology (TIST) 2019

Benjamin D. Horne, Jeppe Norregaard, and Sibel Adali

**J9.** Uncertainty-based False Information Propagation in Social Networks  
ACM Transactions of Social Computing (TSC) 2019

Jin-Hee Cho, Scott Rager, John O'Donovan, Sibel Adali, and Benjamin D. Horne

**J10.** Recognizing Experts on Social Media: A Heuristics Based Approach

ACM SIGMIS: The DATABASE for Advances in Information Systems (DATABASE) 2018  
Benjamin D. Horne, Dorit Nevo, and Sibel Adali

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## Computing Conferences (peer-reviewed, archival):

Note: Conference proceedings are considered top-tier publication venues for computing

- CC1.** Characterizing YouTube and BitChute Content and Mobilizers During U.S. Election Fraud Discussions on Twitter  
14th ACM Web Science Conference (WebSci) 2022  
Matthew C. Childs\*, Milo Trujillo, Cody Buntain, and [Benjamin D. Horne](#)  
**Media Coverage:** Reuters Special Report
- CC2.** Local News Online and COVID in the U.S.: Relationships among Coverage, Cases, Deaths, and Audience  
The 16th International Conference on Web and Social Media (ICWSM) 2022  
Kenneth Joseph, [Benjamin D. Horne](#), Jon Green, John P. Wihbey
- CC3.** What is BitChute? Characterizing the "Free Speech" Alternative to YouTube  
31st ACM Conference on Hypertext and Social Media (HT'20) 2020  
Milo Trujillo, Mauricio Gruppi, Cody Buntain, and [Benjamin D. Horne](#)  
**Media Coverage:** Mashable, Business Insider, YLE, Reuters Special Report  
**Other:** Cited on Wikipedia pages for Bitchute and WebTorrent (01/2021)
- CC4.** Trustworthy Misinformation Mitigation with Soft Information Nudging  
The First IEEE Conference on Trust, Privacy and Security in Intelligent Systems (TPS) 2019  
[Benjamin D. Horne](#), Mauricio Gruppi, and Sibel Adali
- CC5.** Different Spirals of Sameness: A Study of Content Sharing in Mainstream and Alternative Media  
The 13th International Conference on Web and Social Media (ICWSM) 2019  
[Benjamin D. Horne](#), Jeppe Norregaard, and Sibel Adali
- CC6.** Rating Reliability and Bias in News Articles: Does AI Assistance Help Everyone?  
The 13th International Conference on Web and Social Media (ICWSM) 2019  
[Benjamin D. Horne](#), Dorit Nevo, John O'Donovan, Jin-Hee Cho, and Sibel Adali
- CC7.** Assessing the News Landscape: A Multi-Module Toolkit for Evaluating the Credibility of News  
The 27th ACM International Web Conference (WWW) 2018  
[Benjamin D. Horne](#), Will Dron, Sara Khedr, and Sibel Adali
- CC8.** Identifying the Social Signals that Drive Online Discussions: A Case Study of Reddit Communities  
International Conference on Computer Communications and Networks (ICCCN) 2017  
[Benjamin D. Horne](#), Sibel Adali, and Sujoy Sikdar
- CC9.** From Sports to Science: Using Basketball Analytics to Broaden the Appeal of Math and Science Among Youth  
MIT Sloan Sports Analytics Conference (MIT SSAC) 2017 - **Best Research Paper Award**  
John F. Drazan, Amy K. Loya, [Benjamin D. Horne](#), and Ron Eglash  
**Media Coverage:** NBA Enrichment Program, Denver Stiffs Podcast, RPI News, Fansided, SB Nation, Vice Sports, Harvard Sports Analytics Blog
- CC10.** Impact of message sorting on access to novel information in networks  
Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2016  
[Benjamin D. Horne](#), Sibel Adali, and Kevin Chan
- CC11.** Expertise in social networks: how do experts differ from other users?  
The International Conference on Web and Social Media (ICWSM) 2016  
[Benjamin D. Horne](#), Dorit Nevo, Jesse Freitas, Heng Ji, and Sibel Adali

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## Non-computing Conferences (peer-reviewed, archival):

- NCC1.** Automated Parsing of Personal Identity Facets for a Collection of Visual Images  
International Conference on Dublin Core and Metadata Applications (DC) 2022  
Brian Dobreski, Melissa Resnick, and [Benjamin D. Horne](#)
- NCC2.** Models for Predicting Community-Specific Interest in News Articles  
The 37th Military Communications Conference (MILCOM) 2018  
[Benjamin D. Horne](#), William Dron, and Sibel Adali
- NCC3.** The Multi-Domain Integration and Correlation Engine  
The 37th Military Communications Conference (MILCOM) 2018  
W. Dron, A. Sydney, J. Hancock, L. Scott, T. Abdelzaher, J. Han, S. Adali, [B.D. Horne](#)

## Workshops (peer-reviewed, archival):

- W1.** Tell Me Who Your Friends Are: Using Content Sharing Behavior for News Source Veracity Detection  
MEDIATE Workshop at ICWSM 2021  
Mauricio Gruppi, [Benjamin D. Horne](#), and Sibel Adali
- W2.** From Tweeting About News to Creating News Around Tweets: Characterizing Tweets Embedded in News Articles  
MEDIATE Workshop at ICWSM 2021  
Mauricio Gruppi, Sibel Adali, Matthew Salemi, and [Benjamin D. Horne](#)
- W3.** Do All Good Actors Look The Same? Exploring News Veracity Detection Across The U.S. and The U.K.  
ICWSM Data Challenge on Safety 2020  
[Benjamin D. Horne](#), Mauricio Gruppi, and Sibel Adali
- W4.** An Exploration of Verbatim Content Republishing by News Producers  
The International Workshop on News and Public Opinion (NECO) at ICWSM 2018  
[Benjamin D. Horne](#) and Sibel Adali
- W5.** An Exploration of Misinformation Classification in Brazil and The U.S.  
The International Workshop on News and Public Opinion (NECO) at ICWSM 2018  
Mauricio Gruppi, [Benjamin D. Horne](#), and Sibel Adali
- W6.** This Just In: Fake News Packs a Lot in Title, Uses Similar, Repetitive Content in Text Body, More Similar to Satire than Real News  
The International Workshop on News and Public Opinion (NECO) at ICWSM 2017  
[Benjamin D. Horne](#) and Sibel Adali  
**Media Coverage:** Science News
- W7.** The Impact of Crowds on News Engagement: A Reddit Case Study  
The International Workshop on News and Public Opinion (NECO) at ICWSM 2017  
[Benjamin D. Horne](#) and Sibel Adali
- W8.** Exploring the Creative Destruction of 3D Printing Through an Analysis of Intellectual Property Issues  
Emerging Researcher National (ERN) Conference 2013  
Stephanie M. Santoso, [Benjamin D. Horne](#), and Stephen B. Wicker

## Published Datasets (light peer-review, archival):

- D1.** A Psycho-linguistic Analysis of BitChute: A Metadata Supplement to The MeLa BitChute Dataset  
Technical Report 2022

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<https://doi.org/10.7910/DVN/KRD1VS>

Benjamin D. Horne

**D2. The MeLa BitChute Dataset**

The 16th International Conference on Web and Social Media (ICWSM) 2022

<https://doi.org/10.7910/DVN/KRD1VS>

Milo Z. Trujillo, Mauricio Gruppi, Cody Buntain, and Benjamin D. Horne

**D3. NELA-Local: A Dataset of U.S. Local News Articles for the Study of County-level News Ecosystems**

The 16th International Conference on Web and Social Media (ICWSM) 2022

<https://doi.org/10.7910/DVN/GFE66K>

Benjamin D. Horne, Mauricio Gruppi, Kenneth Joseph, Jon Green, John P. Wihbey, and Sibel Adali

**D4. NELA-GT-2021: A Large Multi-Labelled News Dataset for the Study of Misinformation in News Articles**

Technical Report 2022

<https://doi.org/10.7910/DVN/RBKVBM>

Mauricio Gruppi, Benjamin D. Horne, and Sibel Adali

**D5. NELA-GT-2020: A Large Multi-Labelled News Dataset for the Study of Misinformation in News Articles**

Technical Report 2021

<https://doi.org/10.7910/DVN/CHMUYZ>

Mauricio Gruppi, Benjamin D. Horne, and Sibel Adali

**D6. NELA-GT-2019: A Large Multi-Labelled News Dataset for the Study of Misinformation in News Articles**

Technical Report 2020

<https://doi.org/10.7910/DVN/O7FWPO>

Mauricio Gruppi, Benjamin D. Horne, and Sibel Adali

**D7. NELA-GT-2018: A Large Multi-Labelled News Dataset for the Study of Misinformation in News Articles**

The 13th International Conference on Web and Social Media (ICWSM) 2019

<https://doi.org/10.7910/DVN/ULHLCB>

Jeppe Norregaard, Benjamin D. Horne, and Sibel Adali

**D8. Sampling the News Producers: A Large News and Feature Data Set for the Study of the Complex Media Landscape**

The 12th International Conference on Web and Social Media (ICWSM) 2018

<https://doi.org/10.7910/DVN/ZCXSKG>

Benjamin D. Horne, Sara Khedr, and Sibel Adali

**Other Conferences, Workshops, and Abstracts (peer-reviewed, non-archival):**

**O1. Russia Public Diplomacy Efforts to Influence Neighbors: Media Messaging Supports Hard Power Projection**

72nd Annual International Communication Association Conference (ICA) 2022

Maureen Taylor, Natalie Rice, Oleg Manaev, Catherine Luther, Suzie Allard, Michael Fitzgerald, Brandon Prins, Joshua Borycz, R. Alexander Bentley, and Benjamin D. Horne

**O2. Traditional and Social Media Usage and Pro-Russian versus Anti-Russian Attitudes in Belarus and Ukraine**

72nd Annual International Communication Association Conference (ICA) 2022

Catherine Luther, Brandon Prins, Oleg Manaev, Natalie Rice, Maureen Taylor, Suzie Allard, Michael Fitzgerald, Benjamin D. Horne, R. Alexander Bentley, and Joshua Borycz

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- O3.** Role of Social Affinity on News Coverage of Disasters: Implications for Disaster Donations (Abstract)  
Decision Sciences Institute (DSI) Annual Conference 2021  
Trilce Encarnacion, Jose Holguin-Veras, and Benjamin D. Horne
  - O4.** Hateful YouTube: Characterizing the Social Video-hosting Platform BitChute (Abstract)  
6th International Conference on Computational Social Science (IC2S2) 2020  
Milo Trujillo, Mauricio Gruppi, Cody Buntain, and Benjamin D. Horne
  - O5.** Effects of Priming on Online Discussion Behavior (Abstract)  
The Human Factors and Ergonomics Society (HFES) International Annual Meeting 2018  
Hung-Tao Chen and Benjamin D. Horne

## **FUNDING**

- F1.** Minerva Grant, United States Department of Defense, Office of Naval Research  
Monitoring the Content and Measuring the Effectiveness of Russian Disinformation and Propaganda Campaigns in Selected Former Soviet Union States  
**PI:** Catherine Luther  
**Co-PI:** Benjamin Horne, Suzie Allard, Alex Bentley, Michael Fitzgerald, Brandon Prins, Maureen Taylor  
**Funding:** \$1.6 Million  
**Duration:** 2019 - 2023 *Note: I was added as a Co-PI in 2021*  
**Related Publications:** J2, O1, O2  
**Related Talks:** T3, T6

## **AWARDS**

- A1.** Robert McNaughton Prize for outstanding Ph.D. graduate in Computer Science 2020
- A2.** MIT Sloan Sports Analytics Conference Best Research Paper Award (\$10,000) 2017
- A3.** RPI Outstanding Research Poster Award 2017
- A4.** Union University Academic Excellence Medal in Computer Science (Highest GPA) 2014
- A5.** Union University Dr. Joe Tucker Scholarship 2013

## **INVITED TALKS, PANELS, and GUEST LECTURES**

- T1.** Invited Speaker, Disinformation Countermeasures and Machine Learning (DisCoML) Workshop at ICML, 2022
- T2.** Invited Speaker, The UTK Pre-College Programs & Southern Appalachian Science and Engineering Fair, Virtual Science Club, 2022
- T3.** Invited Co-speaker with Dr. Catherine Luther, U.S. DoD Basic Research Forum, 2021
- T4.** Invited Speaker, iDRAMA Lab Seminar Series, 2021
- T5.** Invited Speaker, IDEA Institute for Artificial Intelligence, 2021
- T6.** Invited Co-speaker with Dr. Catherine Luther, U.S. Technology Leadership Council (USTLC), 2021
- T7.** Co-Guest Lecture with Dr. Guy Harrison, CCI 620, Advice on the Academic Job Hunt, UTK, 2021

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**T8.** Moderator, The Rise of Extremist Movements on Social Media, UTK CCI Social Media Week, 2021

**T9.** Guest Lecture, ECE 692 Adversarial Learning, UTK Tickle College of Engineering, 2021

**T10.** Panelist, Power of Information: Information Science Graduate Programs Fair, iSchool's Inc. 2020

## **TEACHING**

### **University of Tennessee Knoxville:**

- INSC 201 Foundations of Information Sciences (5 x 2020 - 2022)
- INSC 260 (formerly 360) Programming for Info. Apps. (3 x 2021 - 2023) - **Newly Created**
- INSC 484 Database Applications (2 x 2021 - 2022) - **Newly Created**
- INSC 591 Indep Project/Research (3 x 2020 - 2022)
- INSC 594 Graduate Research Participation (4 x 2021 - 2022)
- INSC 493 Indep Project/Research (2 x 2022-2023)

### **Rensselaer Polytechnic Institute:**

- CSCI 2300 Introduction to Algorithms - *Graduate Teaching Assistant* (Spring 2015)

## **STUDENT MENTORING**

### **PhD Advisor**

- Namrita Varier, PhD Communications and Information, UTK

### **PhD Committee Member**

- Katie Knight, PhD Communications and Information, UTK

### **Masters Research Mentor**

- Jeremy Horner, MS Information Sciences, UTK (2022)
- Matt Childs, MS Information Sciences, UTK (2021 - 2022)
- Denise Yewell, MS Information Sciences, UTK (2022)
- Rohit Srivastava, MS Information Sciences, UTK (2021)
- Nelia Koontz, MS Information Sciences, UTK (2021)
- Summer Phillips, MS Information Sciences, UTK (2020 - 2022)

### **Undergraduate College Scholars Mentor**

- Diego Lourenco, College Scholars Program, Data Science and Analytics, UTK (2021-2023)

### **Undergraduate Research Mentor**

- Taylor Rogers, Computer Science, UTK (2022)

## **SERVICE**

### **University Service**

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- UTK Data Science Faculty Committee (Intercollegiate Data Science Program) (2021 - 2023)
  - UTK Proposal for Chancellor's Cluster Hiring Initiative: *Data Driven Society* Team (2022)

### **School and College Service**

- SIS Undergraduate Program Committee (2020 - 2023)
- SIS Faculty and Doctoral Student Affairs Committee (2022 - 2023)
- CCI Social Media Week Ad-Hoc Committee (2021)
- SIS Professor of Practice Search Committee (2020)

### **Academic Community Service**

- **Organizer:**
  - TREC CrisisFACTS with Cody Buntain (UMD), Amanda Hughes (BYU), Muhammad Imran (QCRI), Richard McCreadie (Glasgow), and Hemant Purohit (George Mason) (2023)
- **Program Committee Member or Reviewer:**
  - Journals:
    - Digital Journalism (2022)
    - Information Processing and Management (2021)
    - Harvard Kennedy School Misinformation Review (2020)
    - International Journal of Communications (IJoC) (2019 - 2020)
    - ACM Transactions on Internet Technology (TOIT) (2017)
  - Conferences:
    - ICWSM (2019 - 2023)
    - ACM WebSci (2020 - 2023)
    - ICA Conference (2021)
    - ICIS (2021)
    - AMCIS (2017 - 2020)
    - ASONAM (2019)
  - Workshops:
    - MEDIATE Workshop at ICWSM (2022)
    - NECO Workshop at ICWSM (2017, 2018, 2020)
    - MIS2 Workshop at WSDM (2018)