

Education

Doctor of Philosophy: Computer Science , Rensselaer Polytechnic Institute, Troy, NY (2014-2020)
Bachelor of Science: Computer Science, Union University, Jackson, TN (2010-2014)
Bachelor of Science in Business Administration: Management, Union University, Jackson, TN (2010-2014)

Publications

Journals and Conferences Proceedings:

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

Benjamin D. Horne, Sara Khedr, and Sibel Adali

Assessing the News Landscape: A Multi-Module Toolkit for Evaluating the Credibility of News

The 27th International Web Conference (WWW) 2018

Benjamin D. Horne, Will Dron, Sara Khedr, and Sibel Adali

Identifying the Social Signals that Drive Online Discussions: A Case Study of Reddit Communities

The International Conference on Computer Communications and Networks (ICCCN) 2017

Benjamin D. Horne, Sibel Adali, and Sujoy Sikdar

From Sports to Science: Using Basketball Analytics to Broaden the Appeal of Math and Science Among Youth

MIT Sloan Sports Analytics Conference (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, RPI News, Fansided, SBNation, Vice Sports, Harvard Sports Analytics Blog

Impact of message sorting on access to novel information in networks

The International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2016

Benjamin D. Horne, Sibel Adali, and Kevin Chan

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

Exploring the Creative Destruction of 3D Printing Through an Analysis of Intellectual Property Issues

TRUST Autumn Conference and Emerging Researcher National (ERN) Conference 2013

Stephanie M. Santoso, **Benjamin D. Horne**, and Stephen B. Wicker

Extensions to the Descartes Specification Language for the Development of Real-Time Object Oriented Systems

The International Conference on Computing, Networking, and Digital Technologies (ICCNDDT) 2012

Benjamin D. Horne, Vinitha Hannah Subburaj, and Joseph E. Urban

Formal Specification for Real-Time Object Oriented Systems with UML Design

International Journal of Digital Information and Wireless Communications (IJDIWC) 2013

Benjamin D. Horne, Vinitha Hannah Subburaj, and Joseph E. Urban

Peer-Reviewed Workshops and Other:

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

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

Effects of Priming on Online Discussion Behavior (Extended Abstract)

The Human Factors and Ergonomics Society (HFES) International Annual Meeting 2018

Hung-Tao Chen and **Benjamin D. Horne**

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 - ***RPI Outstanding Poster Award***

Benjamin D. Horne and Sibel Adali

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

Experience

Army Research Labs: Adelphi, MD

(June 2017)

Rotational Visiting Researcher for Q3 NS-CTA

- Collaboration with ARL researchers in The Network Science Research Laboratory to transfer research into a automatic news analysis toolkit

Rensselaer Polytechnic Institute: Troy, NY

(2014-Present)

Research Assistant, Advisor: Sibel Adali

- Work in the area of information quality, credibility, and diversity
- Methodologies: Data analytics using Python on large Reddit and Twitter datasets, Natural Language Processing, Machine Learning, and Human behavior analysis

Teaching Assistant, Advisor: Mukkai Krishnamoorthy: Introduction to Algorithms

(Spring 2015)

NSF GK-12 Fellow: Troy, NY

(2015–2016)

Fellow/Teacher

- Albany High school collaborative teaching program in which I examined the potential relations between my STEM research and the social issues facing local low-income and minority communities to create engaging lessons for an AP Statistics class
- Designed year long module entitled "Media Bias and The Misuse of Statistics"

Cornell University: Ithaca, NY

(Summer 2013)

TRUST Undergraduate Researcher, Advisor: Stephen B. Wicker

- Research on the Creative Destruction of non-industrial 3D printing through an analysis of intellectual property issues, utilizing survey techniques and data analysis using IBM SPSS and Python.

Texas Tech University: Lubbock, TX

(Summer 2012)

NSF Undergraduate Researcher, Advisor: Joseph E. Urban

- Research in the area of specification languages; specifically on extending the Descartes Specification Language for the development of real-time object oriented systems, included trade-off analysis of UML and Descartes.

Steele Martin Jones and Company, PLC: Jackson, TN

(2011–2014)

Information Technology Administrator

- Redesigned internal network including building Linux Untangle appliance routing server; download speeds increased from 8Mb/s to 25Mb/s on average, internal ping latency reduced, increased VPN reliability
- Redesigned Website, optimized user experience and SEO
- Managed all technology infrastructure, primary decision maker in technology arena including purchasing

Technical Skills

Languages: Python, R, Matlab, Java, C,C#, HTML, CSS, PHP

Data Science: Various machine learning and NLP toolkits (scikit-learn, tensorflow, scipy, mallet, nltk, Stanford parser, word2vec, autopharse, LIWC, etc.), Topic modeling, IBM SPSS, Weka, GPower, experience working with very large social network datasets, social network APIs, and web scraping

Network Science: Random network models, Agent-based simulation design, Subjective Logic, Epidemic models, Gephi, Python Networkx

Web Systems: Python Flask, NGINX, Gunicorn, Linux web serving (systemctl)

Community and Professional Service

Program Committees/ Reviewer: NECO 2017, AMCIS 2017, ACM TOIT 2017, MIS2 2018, NECO 2018, AMCIS 2018, OIR 2018

Community Volunteer: VLCC Worship Leading Team 2015-2019, RPI Graduate Christian Fellowship Vision Team 2015-2019, RPI Black Family Technology Day 2016, Union University Campus and Community Day Leader 2011-2013, Union University ACM Vice President 2012- 2014, Union University IT Committee Member 2013-2014