Michael J. Henry

👥 Personal

Name	**Michael J. Henry**
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💼 Work experience

Senior Data Scientist   Jul 2010 - Present

Pacific Northwest National Laboratory, Richland, WA

Senior data scientist, relationship manager for PNNL's National Security Directorate's Analytics work with the Department of Defense, Team Lead to 13 full time staff Data Scientists. Runs PNNL's Open Source Data Analytics program, a collection of 12 projects and 60+ staff who build and deliver advanced capabilities in data analytics and machine learning. Experienced, published machine learning researcher, project manager, principle investigator, and leader. Led the development of a 2-day deep learning workshop with experience teaching over 200 participants as the lead instructor. Experienced communicator, business developer, and research lead.

Adjunct Instructor   Aug 2018 - Dec 2018

Washington State University, Tri-Cities, Richland, WA

Taught an undergraduate course on Linux programming tools.

Software Engineer   Jan 2008 - Jun 2010

Raytheon Virtual Technology Corporation, Alexandria, VA

Software developer supporting Department of Defense sponsors.

Software Engineer   Jan 2007 - Dec 2007

SAIC, Alexandria, VA

Software developer supporting the Defense Threat Reduction Agency.

Software Engineer   Jul 2006 - Dec 2006

Sonalysts, Inc, Dahlgren, VA

Software developer supporting NAVSEA Dahlgren.

🎓 Education and Qualifications

Masters of Science   Aug 2007 - Jan 2011

Georgetown University, Washington, D.C.

Thesis: "Identifying Vocal Regions in Music using the Discrete Wavelet Transformation"

Bachelor of Science   Aug 2002 - May 2006

Purdue University, West Lafayette, IN

☰ Select Publications

- Rounds, Jeremiah; Kingsland, Addie; **Henry, Michael J**; Duskin, Kayla R; ,Probing for Artifacts: Detecting Imagenet Model Evasions,Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern

Recognition Workshops,2020

- Bakker, Craig; *Henry, Michael J*; Hodas, Nathan O; ,The Outer Product Structure of Neural Network Derivatives,arXiv preprint arXiv:1810.03798,2018
- Tomaszewski, Natalie; Agnihotri, Meeshu; Cheng, Huiwen; Bhadke, Ashutosh; **Henry, Michael**; Charles, Lauren E; ,"Epi Evident: Biosurveillance to Monitor, Compare, and Forecast Disease Case Counts",Online Journal of Public Health Informatics,2018
- Bakker, Craig; **Henry, Michael J**; Hodas, Nathan O; ,Understanding and Exploiting the Low-Rank Structure of Deep Networks,2018 Workshop on Geometry in Machine Learning,2018
- Pathak, Neetu; **Henry, Michael J**; Volkova, Svitlana; ,Understanding Social Media's Take on Climate Change through Large-Scale Analysis of Targeted Opinions and Emotions,2017 AAAI Spring Symposium Series,2017
- Johns, Jesse M; Rounds, Jeremiah; **Henry, Michael J**; ,Multi-modal Geolocation Estimation Using Deep Neural Networks,arXiv preprint arXiv:1712.09458,2017
- Gaurav, Sanket; Roy, Tania; Zeng, Jianfeng; Charles-Smith, Lauren E; **Henry, Michael J;** Han, Kyungsik; Corley, Courtney D; ,ChemAnalyzer: A Text Analytics Platform for Chemical Surveillance,"253rd National Meeting of the American-Chemical-Society (ACS) on Advanced Materials, Technologies, Systems, and Processes",2017
- Gastelum, Zoe Nellie; **Henry, Michael J**; Burtner, E; Doehle, Joel R; Zarzhitsky, Dimitri V; Hampton, Shawn D; LaMothe, Ryan R; ,The Development of an Example Precision Information Environment for International Safeguards Use Cases.,Proceedings of the Annual Meeting of the Institute of Nuclear Materials Management,2015
- **Henry, Michael J**; Cramer, Nicholas O; Benz, Jacob M; Gastelum, Zoe N; Kreyling, Sean J; West, Curtis L; ,Examining the Role and Research Challenges of Social Media as a Tool for Nonproliferation and Arms Control Treaty Verification,"Proceedings of Information Analysis Technologies, Techniques, and Methods for Safeguards, Nonproliferation and Arms Control Verification Workshop, INMM",2014
- Dillard, Scott E; **Henry, Michael J**; Bohn, Shawn; Gosink, Luke J; ,Coherent image layout using an adaptive visual vocabulary,Image Processing: Machine Vision Applications VI,2013
- Gosink, Luke; Bensema, Kevin; Pulsipher, Trenton; Obermaier, Harald; **Henry, Michael**; Childs, Hank; Joy, Kenneth I; ,Characterizing and visualizing predictive uncertainty in numerical ensembles through Bayesian model averaging,IEEE transactions on visualization and computer graphics,2013
- **Henry, Michael J**; Hampton, Shawn; Endert, Alex; Roberts, Ian; Payne, Deborah; ,Multifacet: A faceted interface for browsing large multimedia collections,2013 IEEE International Symposium on Multimedia,2013