

David M. Andrzejewski

Recent professional experience

Industry

- 2015
to present **Engineering Manager, Unified Logs and Metrics (backend),**
Sumo Logic, Redwood City, CA.
Team responsible for new time-series data analysis platform
- 2014 - 2015 **Tech Lead / Manager, Data Sciences Engineering,**
Sumo Logic, Redwood City, CA.
Lead the development of advanced analytics for machine-generated log data
- 2013 - 2014 **Lead Data Sciences Engineer,**
Sumo Logic, Redwood City, CA.
- 2011 - 2013 **Data Sciences Engineer,**
Sumo Logic, Mountain View, CA.
- 2010 - 2011 **Postdoctoral Research Staff Member,**
Lawrence Livermore National Laboratory, Livermore, CA.
Applied statistical modeling to knowledge discovery in text corpora
- 2008 **Research Intern, Microsoft Research,** Redmond, WA.
Developed analysis techniques for investigating system performance anomalies
Collaborated with product team to deliver high-impact internal tool

Academic

- 2008 - 2010 **Research Assistant (Professors Mark Craven and Xiaojin Zhu),**
UW-Madison, Madison, WI.
Knowledge-augmented topic models
Developed new latent topic models to allow prior knowledge and user feedback
Proposed, implemented, and conducted experiments on new models and techniques

Education

- 2007–2010 **PhD, University of Wisconsin–Madison,** Madison, WI.
Computer Sciences
Research focus: Machine Learning
Advisors: Mark Craven and Xiaojin Zhu
Thesis: *Incorporating Domain Knowledge in Latent Topic Models*
- 2005–2007 **MS, University of Wisconsin–Madison,** Madison, WI.
Computer Sciences
- 2000–2005 **BS, University of Wisconsin–Madison,** Madison, WI.
Computer Engineering, Mathematics, Computer Sciences

Selected publications

David Andrzejewski and David Buttler. Latent topic feedback for information retrieval. In *KDD '11: Proceedings of the 17th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*. Association for Computing Machinery, 2011. (8% of submissions accepted for oral presentation).

David Andrzejewski, Xiaojin Zhu, Mark Craven, and Benjamin Recht. A framework for incorporating general domain knowledge into latent Dirichlet allocation using first-order logic. In *IJCAI '11: Proceedings of the 22nd International Joint Conference on Artificial Intelligence*. AAAI Press, 2011. (17% of submissions accepted).

David Andrzejewski, Xiaojin Zhu, and Mark Craven. Incorporating domain knowledge into topic modeling via Dirichlet forest priors. In *ICML '09: Proceedings of the 26th Annual International Conference on Machine Learning*, pages 25–32. Association for Computing Machinery, 2009. (25% of submissions accepted).

David Andrzejewski, Anne Mulhern, Ben Liblit, and Xiaojin Zhu. Statistical debugging using latent topic models. In *ECML '07: Proceedings of the 18th European conference on Machine Learning*, pages 6–17. Springer-Verlag, 2007. (9% of submissions accepted).

Patents and applications

- **System and method of drug identification through radio frequency identification (RFID)**

United States Patent Application (11/465993)

Ronald Makin, Kyle Jansson, Silas Zirn, David Andrzejewski, Timothy Flink

- **Visualization tool for system tracing infrastructure events**

United States Patent Application (US8464221)

Alice X. Zheng, Trishul A. Chilimbi, Shuo-Hsien Hsiao, Danyel A. Fisher, David M. Andrzejewski