

# David M. Andrzejewski

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## Recent professional experience

### Industry

- 2018 to present **Senior Engineering Manager, Data Insights,**  
*Sumo Logic, Redwood City, CA.*
- 2015 - 2018 **Engineering Manager, Unified Logs and Metrics,**  
*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 tool for investigating system performance anomalies

### 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

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## 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*

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## 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).

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## Selected technical talks

- Understanding Software System Behavior With ML and Time Series Data. QCon.ai, San Francisco (April 2018)
- Functional Programming for Machine Learning (panel). Scale By the Bay, San Francisco (November 2017)
- Economical machine learning via functional programming. Big Data Scala by the Bay, Oakland (August 2015)
- Graph mining for log data. Strata + Hadoop World, San Jose (February 2015)
- Machine learning for machine data. Strata Conference, Santa Clara (February 2014)
- Latent Topic Feedback for Information Retrieval. ACM SIGKDD Conference on Knowledge Discovery and Data Mining (August 2011)
- A Framework for Incorporating General Domain Knowledge into Latent Dirichlet Allocation using First-Order Logic. International Joint Conference on Artificial Intelligence (July 2011)
- Incorporating domain knowledge into topic modeling via Dirichlet forest priors. International Conference on Machine Learning (June 2009)
- Statistical debugging using latent topic models. European Conference on Machine Learning (September 2007)

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## 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