

Curriculum Vitae of Xiaoli Fern

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Education

- Ph.D. in Computer Engineering, Purdue University, Aug 2005 .
 - Dissertation: High Dimensional Data Clustering and Correlation Analysis,
 - Advisor: Carla Brodley
- M.S. in Computer Engineering, Institute of Image Processing and Pattern Recognition, Shanghai Jiao Tong University, China, Dec 1999.
- B.S. in Electrical Engineering, Shanghai Jiao Tong University, China, May 1997.

Professional experience

- 2005 - present **Assistant Professor**, Computer Science, Oregon State University.
Executive committee member of the NSF IGERT Ecosystem Informatics program
- 2000 - 2005 Research Assistant, Machine Learning lab, Purdue University.

Professional Activities

- **Executive committee member** for the NSF IGERT Ecosystem Informatics program at Oregon State University.(ecoinformatics.oregonstate.edu)
- **Program Committee** for International Conference on Knowledge Discovery in Database (KDD) 2006, 2007, International Conference on Machine Learning (ICML) 2008, National Conference on Artificial intelligence (AAAI) 2007,
- **Publicity Chair** for International Conference on Machine Learning (ICML) 2007
- **Reviewer** for Journal of Artificial Intelligence Research (JAIR), Journal of Machine Learning Research (JMLR), Machine Learning, IEEE Transactions on Pattern Analysis and Machine Intelligence, IEEE Transactions on Knowledge and Database Engineering, IEEE Transactions on Systems, Man and Cybernetics, IEEE Transactions on Evolutionary Computing, Information Fusion, Journal of Ecological Society of America
- **Reviewer** for International Conference on Machine Learning (ICML 2001, 2003, 2006), International Conference on Data Mining (ICDM 2003, 2005), International Conference on Knowledge Discovery and Data Mining (KDD 2003, 2004), Siam International Conference on Data Mining (SDM 2005)

Recent Representative Publications

- Xiaoli Fern, Wei Lin. Cluster Ensemble Selection. Invited submission to the special issue of *Statistical Analysis and Data Mining, on the best papers of SDM08*.
- Xiaoli Fern, Chaitanya Komireddy, Valentina Grigoreanu, and Margaret Burnett. Mining Problem-Solving Strategies from HCI Data. Submitted to *Special Issue of ACM Transactions on Computer-Human Interaction: data mining for understanding user needs*.
- Xiaoli Fern, Wei Lin. Cluster Ensemble Selection. To appear in *Proceedings of SIAM International Conference on Data Mining (SDM-2008)*. (Acceptance rate: **14%**)
- Xiaoli Fern, Chaitanya Komireddy. Mining Interpretable Human Strategies: A Case Study. In *Proceedings of Seventh International Conference on Data Mining (ICDM-2007)*. (Short paper acceptance rate: **19%**)
- Ying Cui, Xiaoli Fern, Jennifer Dy. Non-redundant Multi-view Clustering via Orthogonalization, In *Proceedings of the Seventh International Conference on Data Mining (ICDM-2007)*. (Full paper acceptance rate: **7%**)
- Valentina Grigoreanu, Laura Beckwith, Xiaoli Fern, Sherry Yang, Chaitanya Komireddy, Vaishnavi Narayanan, Curtis Cook and Margaret Burnett. Gender Differences in End-User Debugging, Revisited: What the Miners Found. In *Proceedings of IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2006)* (Acceptance rate: **21%**)
- Xiaoli Fern, Carla Brodley, and Mark Friedl. Correlation Clustering for Learning Mixtures of Canonical Correlation Models. In *Proceedings of SIAM International Conference on Data Mining (SDM-2005)*. (Acceptance rate: **18%**)
- Xiaoli Fern and Carla Brodley. (2004). Solving Cluster Ensemble Problems Using Bipartite Graph Partitioning. In *Proceedings of the Twenty First International Conference on Machine Learning (ICML-2004)*. (Acceptance rate: **32%**)
- Xiaoli Fern and Carla Brodley. (2003). Random Projection for High Dimensional Data Clustering: A Cluster Ensemble Approach. In *Proceedings of the Twentieth International Conference on Machine Learning (ICML-2003)*. (Acceptance rate: **32%**)
- Xiaoli Fern and Carla Brodley. (2003). Boosting Lazy Decision Trees. In *Proceedings of Twentieth International Conference on Machine Learning (ICML-2003)*. (Acceptance rate: **32%**)

Teaching

- CS434 Fall 2007 Introduction to Machine Learning and Data Mining
- CS325 Winter 2007 Analysis of Algorithms
- CS534 Spring 2006 Machine Learning
- CS519/GEO599 2006 (Winter, Spring), 2007 (Winter) 2008(Winter) Model Implementation and Construction in ecosystem Informatics

- CS519/GEO599 Fall, 2005 2006 Concepts in ecosystem Informatics

Honors

- 2005-2006 OSU EECS ACM Professor of the Year