

Carson M. Andorf

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Educational Background

2000 – Current Ph.D. student in Computer Science
Department at Iowa State University. Advisor: Dr. Vasant Honavar.
Overall GPA 3.77 / 4.00

1996 – 2000 Bachelor of Arts degree in Mathematics and Computer Science
Department of Computer Science and Mathematics,
Wartburg College, Waverly, Iowa.
Overall GPA 3.83 / 4.00; CS GPA 4.00 / 4.00; Math GPA 3.92 / 4.00

Research areas of interest

- Machine Learning
- Knowledge Discovery and Data Mining
- Ontology Assisted Data Mining
- Bayesian Learning
- Distributed Knowledge Networks
- Agents and Multi-agents Systems

Research Experience

2002 - Current Supported by Iowa State Baker Center / Pioneer Hi-Bred Fellowship.
2002 - 2002 Protein function prediction research at Pioneer Hi-Bred in Bioinformatics department.
2000 - 2000 Supported by an IGERT Fellowship funded by the National Science Foundation

Industrial Experience

2002 - 2002 Computer programmer / Researcher for Pioneer Hi-Bred, Johnston, Iowa
1999 - 2000 Computer programmer for Cuna Mutual Insurance, Waverly, Iowa
1998 - 1999 Computer programmer for John Deere Waterloo Works, Waterloo, Iowa

Teaching Experience

1997 Teaching Assistant for Linear Algebra
1996 Teaching Assistant for Calculus III

List of publications

Journal Submissions Under review

1. Andorf, C., Dobbs, D., and Honavar, V. (2003). Reduced Alphabet Representations of Protein Sequences for Data-Driven Generation of Protein Function Classification Rules Based on Sequence Motifs. Submitted to: Bioinformatics.
2. Andorf, C., Caragea, D., Silvescu, A., and Honavar, V. Learning Classification Trees from Distributed Data. Submitted to: Knowledge and Information Systems.

Invited or Refereed Book Chapters

1. Honavar, V., Andorf, C., Caragea, D., Dobbs, D., Reinoso-Castillo, J., Silvescu, A. Wang, X. (2002). **Invited** Chapter. Algorithmic and Systems Solutions for Computer Assisted Knowledge Acquisition in Bioinformatics and Computational Biology. In: *Computational Biology and Genome Informatics*. Wu, C., Wang, P., and Wang, J. (Ed.) World Scientific.
2. Honavar, V., Andorf, C., Caragea, D., Silvescu, A., and Sharma, T. (2001). **Invited** Chapter. Agent-Based Systems for Data-Driven Knowledge Discovery from Distributed Data Sources: From Specification to Implementation. In: *Intelligent Agent Software Engineering*. Plekhanova, V. and Wermter, S. (ed.). Idea Group Publisher. In press.

Recent Refereed Conference Papers

1. Andorf, C., Dobbs, D., and Honavar, V. (2002). Data-Driven Generation of Protein Function Classification Rules Based on Sequence Motifs Discovered Using Multiple Alignments From Reduced Alphabet Representations of Protein Sequences. Conference on Computational Biology and Genome Informatics. To appear.
2. Silvescu, A., Reinoso-Castillo, J., Andorf, C., Honavar, V., and Dobbs, D. (2001). Ontology-Driven Information Extraction and Knowledge Acquisition from Heterogeneous, Distributed Biological Data Sources. In: *Proceedings of the IJCAI-2001 Workshop on Knowledge Discovery from Heterogeneous, Distributed, Autonomous, Dynamic Data and Knowledge Sources*.

Computer skills

- Languages: C, C++, Java, Perl, Prolog, Lisp, Scheme, COBOL, SAS, Assembly, Python, Pascal, BASIC, JCL
- Operating Systems: Unix, Linux, Windows (all Versions), DOS
- Databases: Oracle, DB2, SQL
- Web Design: HTML, JavaScript

Awards and Honors

- Baker Center / Pioneer Hi-Bred Bioinformatics Fellowship 2002 -2004
- Arthur A. Collins Computer Science Scholarship, ISU 2002
- NSF IGERT Fellowship, Bioinformatics and Computational Biology Department, ISU, 2000- 2002
- Iowa State University Computer Science Honor Society, 2002 - Current
- Kappa Mu Epsilon, Mathematics Honor Society, Wartburg College, 1997 - 2000.
- Wartburg College Regents Scholar, Fall 1996 – Spring 2000.
- Dean's Top 40, Dean's List, Wartburg College, Spring 1997 - Spring 2000.
- Chellevoid Mathematics Scholarship, Wartburg College, Fall 1998 - Spring 1999.
- Mathematics Field Day Scholarship, Wartburg College, Fall 1996 – Spring 1997.
- State of Iowa Scholar, Wartburg College, Fall 1996.
- Academic All-American in Wrestling, Wartburg College 1997 – 2000.

REFERENCES

Available Upon Request.