Julie A. Thornton

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EDUCATION

Kansas State University
M.S. in Computer Science, GPA 4.00/4.00, (May 2005)
B.S. in Computer Science, GPA 3.92/4.00, May 2003
- Major GPA 4.0
- Cum Laude
- College of Engineering Honors Program

B.S. in Mathematics, GPA 3.92/4.00, May 2003
- Major GPA 4.0
- Cum Laude

EXPERIENCE

Graduate Teaching Assistant, Dept. of Computer Science, KSU Aug. 2003 – Present
- *CIS 200, Fundamentals of Software Design, Fall 2003, Spring 2004, Fall 2004*
  - Taught lab sections for the course and graded programming assignments
  - Developed weekly lab exercises
- *CIS 190, Visual Basic with Applications, Summer 2004*
  - Designed a new course for scientists and engineers on Visual Basic fundamentals and using Visual Basic with Microsoft Access and Excel
  - Created and recorded all lectures for the course, complete with examples

Research Assistant, Dept. of Computer Science, KSU Jan. 2001 – Aug. 2003
- Helped develop *BNJ*, an open-source software development toolkit for research in probabilistic learning and inference using Bayesian networks.
- Presented *BNJ* as part of a student abstract poster session at AAAI02
- Created random Bayesian network generator
- Implemented Bayesian network analyzer

Collaborative Research Experiences for Women Aug. 2002 – June 2003
- Developed a Java applet for simplifying algebraic expressions

Research Assistant, Dept. of Mathematics, KSU June 2002 – Sep. 2002
- Studied relationships between high resolution and low resolution digital images
- Implemented MATLAB program to reconstruct a lower resolution image from a higher resolution image using the fast Fourier transform
- Used reconstruction with Geography Department to recover spatial properties at different resolutions with images from Konza Prairie Research Natural Area

Lab Instructor, Dept. of Education and Personal Development, KSU Aug. 2000 – Dec. 2002
- Taught classes on College Algebra, Intermediate Algebra, and General Chemistry
- Trained new lab instructors

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HONORS

National Science Foundation Graduate Research Fellow, 2003
Computing Research Association Outstanding Undergraduate, Runner-Up, 2002
Barry M. Goldwater Scholar, 2002
Mathematical Contest in Modeling (Meritorious), 2003
William Lowell Putnam Mathematical Competition (20 points), 2002
Putnam Scholarship, 1999-2003
Honors Engineering Scholarship, 1999-2003
National Dean's List, 2001-2003
Phi Kappa Phi Honor Society, 2001-Present
Golden Key Honour Society, 2001-Present
National Merit Commended, 1998
AP Scholar with Distinction, 1999

ACTIVITIES

Girls Researching Our World (GROW) workshop volunteer, 2002, 2003, 2004
EXploring sCIence, Technology, and Engineering (EXCITE) workshop volunteer, 2004
Computing and Information Sciences enrollment helper, 2004
Silver Key Honor Society, 2000-2001

- Selection Committee – conducted interviews for new members
- Supervised a food drive for the Flint Hills Breadbasket
- Academic Decathalon proctor

HOSTS tutoring at Bluemont Elementary, Mentor, 1999-2001
Tutor in computer science and mathematics courses, 1999-2003
Computer Science Freshman Seminar panel member, 2000
KSU Intramural soccer, cross country, softball, track and field, and flag football, 1999-2003
KSU Ultimate Frisbee League, 2001

PUBLICATIONS

B. B. Perry and **J. A. Stilson**. *BN-Tools*: A Software Toolkit for Experimentation in Bayesian Networks. AAAI02 Student Abstract.

H. Guo, B. B. Perry, **J. A. Stilson**, and W. H. Hsu. A Genetic Algorithm for Tuning Variable Orderings in Bayesian Network Structure Learning. AAAI02 Student Abstract.

W. H. Hsu, H. Guo, B. B. Perry, and **J. A. Stilson**. A Permutation Genetic Algorithm for Variable Ordering in Learning Bayesian Networks from Data. In *Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2002)*, New York, NY, 2002.

REFERENCES

Available upon request