KIMBERLY R. KENNEDY

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EDUCATION

Masters of Science, December 2012
Texas Tech University
Major: Applied Mathematics
Thesis: Implementing Conjugate Gradients with Incomplete Cholesky Preconditioning in Playa
Major Advisor: Kevin R. Long
Courses: Applied Linear Algebra, Intermediate Real Analysis, Numerical Analysis, Classical Applied Mathematics, Parallel Programming, Ordinary Differential Equations, Algebra

Bachelor of Science, *Magna Cum Laude*, May 2010
Texas Tech University
Major: Computer Science
Upper Level Courses in Computer Science: Operating Systems, Databases, Senior Project, Software Engineering, Artificial Intelligence, Theory of Automata

Bachelor of Science, *Magna Cum Laude*, May 2010
Texas Tech University
Major: Mathematics
Upper Level Courses in Mathematics: Ordinary Differential Equations, Partial Differential Equations, Advanced Calculus, Numerical Analysis I and II, Foundations of Algebra I, Statistics I and II

EMPLOYMENT

Gaming Laboratories International — Las Vegas, NV
Test Engineer I — April 2013–Present

- Quality assurance testing of components for electronic gaming devices.
- Reviewing of electronic gaming devices to ensure compliance with gaming regulatory standards.
- Emulating of submitted game software using PuTTY and GDB.
- Organizing testing notes and regulatory comments for quality assurance.

Research and Testing Laboratory — Lubbock, TX
Scientific Programmer — June 2012–January 2013

- Constructed specialized statistical reports for various biological sets using R.
- Converted custom data processing application from C# to Python.

Mathematics and Statistics Department, Texas Tech University — Lubbock, TX
Graduate Part Time Instructor — Fall 2011–Spring 2012

- Developed lesson plans to convey various mathematical topics.
- Organized sessions for review of topics and material.
- Constructed testing material to evaluate students' understanding of coursework.

Mathematics and Statistics Department, Texas Tech University Lubbock, TX
Research Assistant Summer 2010–Fall 2011

- Programmed Conjugate Gradients with Incomplete Cholesky Conditioning in Playa (C++).
- Approximated PDEs using the Galerkin finite element method in Sundance (C++).
- Documented installation procedure of the Sundance finite element library and Trilinos software on OS X.

Computer Science Department, Texas Tech University Lubbock, Texas
Undergraduate Research Assistant Fall 2009–May 2010

- Designed and implemented a Java GUI that integrated shell scripts and XML to monitor Oracle database changes to address data consistency in concurrent process execution.
- Investigated Oracle Streams and Delta-Enabled Grid Services.

Edward E. Whitacre Jr. College of Engineering, Texas Tech University Lubbock, Texas
Supplemental Instructor for Conoco Philips Bridge Program Summer 2008, Summer 2009

- Provided peer instruction for Calculus I sections.
- Mentored new supplemental instructors.
- Tutored and mentored several students in the Calculus I sections.
- Organized data pertaining to the Conoco Philips Bridge Students.
- Updated the Conoco Philips Bridge Program blog.
- Peer Instruction Duties included: clarification of class lectures and construction of test reviews and quizzes.

RELEVANT SKILLS

Intermediate knowledge of Python, C++, SQL, C, Matlab, LaTeX
Basic knowledge of Prolog, PHP, Java, Mathematica
Proficient in OS X, UNIX, Linux, Windows

CERTIFICATES

Specialization Certificate in Data Science
April 2014-December 2014

- The Data Scientist's Toolbox (Completed May 4, 2014)
- R Programming (Completed May 4, 2014)
- Getting and Cleaning Data (Completed May 4, 2014)
- Exploratory Data Analysis (Completed June 1, 2014)
- Reproducible Research (Completed June 1, 2014)
- Statistical Inference (Completed July 8, 2014)

PUBLICATIONS

Victoria E. Howle, Robert C. Kirby, Kevin Long, Brian Brennan, and Kimberly Kennedy. Playa: High-performance programmable linear algebra. *Scientific Programming*, 20(3):257-273,2012.

GRANTS, MAJOR SCHOLARSHIPS, AND FELLOWSHIPS

Texas Tech University Masters' Provost Fellowship	August 2010–August 2012
Texas Tech University Provost Fellowship Scholarship	Spring 2011
Texas Tech University SPACE Scholarship	Fall 2009, Spring 2010
Texas Tech University Doss Simmions Scholarship	Fall 2009, Spring 2010

HONORS AND AWARDS

President's List (Fall 2006, Spring 2010) – Semester GPA of a 4.0
Dean's List (Spring\Fall 2008, Spring\Summer\Fall 2009) – Semester GPA of 3.5 or higher
TTU Golden Key International Honor Society (Fall 2009–Present)
Alpha Lambda Delta (Spring 2007–Present) – Freshman Honor Society
Phi Eta Sigma (Spring 2007–Present) – Freshman Honor Society

PROFESSIONAL AFFILIATIONS

TTU Student Chapter of Society for Industrial and Applied Mathematics
Social Chair — Fall 2010–Spring 2011
President — Fall 2011– Spring 2012
TTU Mathematical Association of America
Member — Spring 2008-Spring 2010
American Mathematical Society
Member — Fall 2010–Present

REFERENCES

Dr. Eric Rees
Research and Testing Laboratory, eric.rees@researchandtesting.com, Co-Director of Bioinformatics
Dr. Lars Koenig
Research and Testing Laboratory, eric.rees@researchandtesting.com, Co-Director of Bioinformatics
Dr. Kevin Long
TTU Mathematics and Statistics Department, kevin.long@ttu.edu, Associate Professor
Dr. Alexander Solynin
TTU Mathematics and Statistics Department, alex.solynin@ttu.edu, Professor