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Vincent Heningburg

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Education

- B.S. cum laude, Mathematics with Computer Science, Auburn University Montgomery, December 2010.

Teaching Experience

Tutored following courses at Instructional Support Lab at AUM **2010-present**

- MATH 0700 Elementary Algebra
- MATH 0800 Intermediate Algebra
- MATH1100 Finite Mathematics
- MATH1120 Precalculus Algebra
- MATH1150 Precalculus with Trig
- MATH1510 Survey of Calculus
- MATH1610 Calculus I
- MATH1620 Calculus II
- MATH2630 Multivariable Calculus
- MATH2660 Linear Algebra
- MATH2670 Elementary Statistics
- MATH 2690 Ordinary Differential Equations
- MATH4200 Discrete Mathematics
- MATH4210 Analysis I
- MATH4400 Math Models & Simulation
- MATH4600 Numerical Analysis I

Additional Classes Taken - Grade

- Number Theory - A
 - Numerical Analysis II - A
 - Analysis I - A
 - Complex Variables - A
 - Modern Algebra I - A
 - Modern Algebra II – In progress
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Honors/Achievements

- Twelfth place at MAA-SE 2011 Math jeopardy contest as leader of AUM jeopardy team
- Presented poster: “Numerical Approximations of Fluid Flow and Phase Change Using Lattice Boltzmann Method and the Stefan Model”, at Alabama Department of Energy EPSCoR site visit, Sept 2011.
- Third place at MAA-SE 2010 Math jeopardy contest as leader of AUM jeopardy team
- Fifth place at MAA-SE 2009 Math jeopardy contest as a member of AUM jeopardy team
- On Dean’s List: Spring 2009, Fall 2009, Spring 2010, Fall 2010

Publications

- Review of Lattice Boltzmann Methods in Heat Transfer and Phase Change Applications: In progress

Activities

- Participated in ACM International Programming Contest, Fall 2011.
- Attended Annual MAA- Southeast section conference 2011.
- Participated in MAA-SE 2011 Math jeopardy contest.
- Participated for AUM's Sonia Kovalevsky Day, 2011.
- Student volunteer for supercomputing confence SC10.
- Participated in ACM International Programming Contest, Fall 2010.
- Attended Annual MAA- Southeast section conference 2010.
- Participated in MAA-SE 2010 Math jeopardy contest.
- Participated for AUM's Sonia Kovalevsky Day, 2010.
- Participated in ACM International Programming Contest, Fall 2009.
- Attended Annual MAA- Southeast section conference 2009.
- Participated in MAA-SE 2009 Math jeopardy contest.
- Participated in the AUM Linux InstallFest, Fall 2009.
- Member of AUM computer programming Team, 2009-Present.
- Member of AUM Math Jeopardy Team, 2008-Present.

Research Experience

Research Assistant at AUM

2009-Present

Directed research under Dr. Luis Cueva-Parra

- Provided assistance in Nano-Enhanced Phase Change Material Simulation.
- Experienced in Lattice-Boltzmann Method
- Responsible for determining best method to simulate the materials.

Honor Societies/Campus Organizations

- Vice-President of AUM Math Club, 2011-Present
 - President of AUM Math Club, 2009-2011.
 - Member of AUM Math Club, 2008-Present.
 - President of National Society of Leadership and Success, 2009-2010
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Computer Experience

Proficient in following programming languages and software applications.

- LaTeX
- C & C++
- Java
- Unix
- Shell scripts
- Maple
- Microsoft office

Research Interests

- Optimization
- Algorithms
- Numerical Analysis
- Scientific Computing
- Modeling
- Simulation

Professional Experience

United States Marine Corps Reserve Warner Robins, Georgia

2005-Present

Aviation Logistical Technician in Information Systems

Non-Commissioned Officer

- Honor Graduate at M.O.S School January 2005: ALTIS Navy Supply Corps School, Athens GA
- Responsible for maintaining mission critical computer servers for Marine Air Group 49.
- Trained and supervised younger Marines on systems and regulations.

General Dynamics, ATP

2007-2008

Field Representative Al Anbar Province Iraq

- Installed and maintained electronic countermeasures on U.S. Marine vehicles
- Trained personnel on the proper operation of systems.
- Provided effective customer service for guests.

References

- Dr. Enoch Lee, Head of Department of Mathematics, Associate Professor, Auburn University Montgomery, (334)-244-3324.
 - Dr. Matthew Ragland, Interim Associate Provost of Research and Graduate Studies, Associate Professor, Auburn University Montgomery, (334)-244- 3138.
 - Dr. Luis Cueva-Parra, Associate Professor, Auburn University Montgomery, (334)-244-3321.
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