

## Frisco M. Rose

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### Education

Bachelor of Science, Physics; Minor Computer Science  
Bachelor of Science, Mathematics  
Eastern Oregon University  
Graduating GPA: 3.39/4.00  
Date of Graduation: June, 2001

### Research Experience

Summer 1999 NSF Research Experiences for Undergraduates (REU) Program  
Department of Physics and Mathematics, North Carolina State University.  
Project: Computational studies in condensed matter physics  
Mentor: Dr. Jerzy Bernholc

### Technical Employment

2000–2001 **Physics Instructor**, *Eastern Oregon University*, Physics Dept.  
Responsible for development, instruction and grading of calculus based physics laboratory experiments.

**Director**, *Eastern Oregon University*, INTACT.  
Responsible for directing and coordinating student taught classes.  
Faculty advisor: Dr. Colleen Johnson

1999–2001 **System Administrator**, *Eastern Oregon University*, Physics Dept.  
Cross platform development and administration (Linux, Win98, Mac OS).

1999–1999 **Research Assistant**, *North Carolina State University*.  
R.E.U. Internship program, Computational studies in condensed matter physics.  
Faculty advisor: Dr. Jerzy Bernholc

**Class Instructor** SCI 200I Scientific typesetting with L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>  
A course for learning the computational typesetting language L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>,  
a language for production quality typesetting of scientific terminology (Spring).

1998–2000 **Editor**, *Eastern Oregon Science Journal*  
Responsible for all aspects of publishing this nationally-recognized and award-winning peer-reviewed undergraduate journal for the sciences.  
Faculty advisor: Dr. Richard Ettinger

**Class Instructor** SCI 200I Scientific typesetting with L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>  
A course for learning the computational typesetting language L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, (Fall 1998).

- 1997–2001 **Physics Tutor** *Eastern Oregon University*, Learning Center.  
Assisted students with calculus and algebra based physics.
- 1997–1999 **Mathematics Tutor** *Eastern Oregon University*, Learning Center.  
Assisted students with all levels of college mathematics
- Resident Assistant** *Eastern Oregon University*, Residence life.  
Responsible for safety and well being of students in residence halls.
- 1997–1998 **Production Manager** *Eastern Oregon University*, The Voice (campus newspaper).  
Responsible for preprint layout, digital image manipulation and aesthetic organization.  
Faculty advisor: Dr. Rob Davis
- Computer Maintenance** *Eastern Oregon University*, Student Activities.  
Maintained and developed Mac OS LAN  
Staff advisor: Mr. Jim Kreider
- 1996–1998 **Teaching Assistant** *Eastern Oregon University*, Mathematics Dept.  
Instructional assistant and test grader for Pre-College Mathematics  
Faculty supervisor: Ms. Kay Firror
- 1995–1997 **Computer Lab Aid** *Eastern Oregon University*, Computing Services Dept.  
helping student with computer use.

## Academic Committees

- 1996–1999 **Tech-Fee Committee member**, Eastern Oregon University  
Technology allocation oversight committee. (1998–1999)
- Lecture Committee member**, Eastern Oregon University  
Guest lecturer allocation oversight committee. (1997–1998)
- Vending Committee member**, Eastern Oregon University  
Student program allocation oversight committee. (1996–1999)

## Publications

- 1997–2001 “Atomic Transformations and Quantum Transport in Carbon Nanotubes,”  
J. Bernholc, M. Buongiorno Nardelli, J.-L. Fattebert, D. Orlikowski, C. Roland,  
F. Rose and Q. Zhao, *MRS Proc. in press* (2000).
- “Avoiding the Aluminum Shower,”  
A. Crozier, F. Rose, C. Vance, *Eastern Oregon Science Journal in press* **16** (2001)).
- “Rocks From Space,”  
T. Beal, R. Hildebrandt, F. Rose, *Eastern Oregon Science Journal* **15** (1999).

“A Statistical Solution to Grade Inflation,”  
F. Rose, S. Triplett, H. Van Dyke, *Eastern Oregon Science Journal* **14** (1998).

“Fruitful Discussions,”  
F. Rose, V. Skinner, H. Van Dyke, *Eastern Oregon Science Journal* **13** (1997).

### **Seminar Presentations:**

1999–1999 “Simulated A.F.M. tip deformation of Carbon Nanotubes”  
Department of Math and Physics, North Carolina State University (August 1999).

“Simulated A.F.M. tip deformation of Carbon Nanotubes”  
Department of Physics, Eastern Oregon University, (October 1999).

### **Conferences**

1997–2000 American Physical Society Northwest Section Conference 2000  
University of Oregon, Eugene, Oregon (May 2000).

U.S. Department of Energy Undergraduate and Faculty Regional Conference  
Battelle Laboratories, Kennewick, Washington (December 1999).

American Mathematical Society Lonseth Lectures  
Lewis and Clark University, Portland, Oregon (May 1997)

### **Academic Honors and Awards**

1997–2000 First Place with Special Merit as Editor of *Eastern Oregon Science Journal* (2000)

Member Sigma Pi Sigma National Physics Honor Society (2000)

Outstanding Physics Student (1999–2000)

Successful Participant, COMAP (2000, 1999, 1998)

Meritorious Award, COMAP (1997)

Ralph Badgley Memorial Scholarship in Science and Mathematics (1997)

### **Academic Activities**

1996–2001 **Co-Founder and Executive Officer**, Eastern Oregon University *Logica*  
Leadership in student organization which oversees and manages several science-oriented campus clubs.  
Activities include organization and promotion of campus-wide social activities, including scientific guest-speakers, quarterly film-discussion events, and field trips. (1998–2001)

**Executive Club Officer-ship** in the following campus clubs

Society of Physics Students (1997–2000)  
Contradictions (Mathematics) Club (1997–2000)  
Astronomy Club (1998–2000)  
Speculative Fiction Club (Co-founder) (1999–2001)  
Computer Operators and Researchers at Eastern (Founder) (1996–2001)

**Mathematical Modeling**, Consortium for Mathematics and its Applications (COMAP)  
Four-time participant in the COMAP Mathematical Contest in Modeling. (1997–2000)

## **Affiliations**

1997–2001 **Sigma Pi Sigma** National Honor Society for Physics (2000-2001)

**American Physical Society** (1999–2001)  
Division of Computational Physics  
Division of Plasma Physics  
Division of Industrial and Applied Physics  
Division of Instrument and Measurement Science

**Society of Physics Students** (1997–2001)

**American Institute of Physics** (1997–2001)