

Maria McKinley

5844 Northeast 75th Street, E108

(206) 898-5309

parody@u.washington.edu

Objective

- To be a legendary system administrator in a corporation that offers growth opportunities.

Accomplishments

- Built a web and mail server from the ground up, using Debian Linux, Apache, Pmwiki, Mailman, Postfix, Amavisd-new, Pyzor, Razor, SpamAssassin, Cyrus, and SquirrelMail; details here
- Built cluster machines that use gPXE and OneSIS to boot diskless off the network, details here
- Took data collected in Matlab, imported in to Flash, and re-created the experiments as movies to demonstrate the neuroscience that is being researched in the lab. Some of these movies are posted here
- Have maintained backup for over 10 years with no data lost

Professional Experience

- **System Administrator/Scientific Programmer** *March 2000 – Present*
Howard Hughes Medical Institute/University of Washington - Shadlen Neuroscience Lab
 - ◇ *Computer System Administration*
 - * Maintain network security using firewalls and troubleshoot networking problems using tools such as traceroute, netstat and wireshark
 - * Troubleshoot and maintain hardware (including research, making decisions on equipment purchases, building and installing), software, and software licenses
 - * Troubleshoot and maintain user accounts, raid array with data, and maintain regular backup
 - * Designed and maintain lab Web site
 - * Work with other lab members to create computer programs and tools for lab use
 - ◇ *Programming*
 - * Design and implement interfaces controlling stimuli and the acquisition of data
 - * Numerical computation and statistical analysis of vision and neuroscience data
 - * Develop customized graphical user interfaces
 - * Using experimental data, and programming in Matlab and actionscript, create movies to demonstrate lab neuroscience research
 - ◇ *Research*
 - * Designed psychophysics experiment exploring the effects of reward bias on simple decision making
 - * Researched relevant scientific literature
 - * Analyzed data and explored models to describe the underlying neural behavior

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– Professional Experience continued

- **Research Assistant** *June 1999 – September 1999*
University of Washington Engineered Biomaterials (UWEB)
 - ◇ Synthesized a biocompatible ultrasound gel using cross-linked sugar molecules
 - ◇ Prepared new polymer films for use as a protective sheath on an ultrasound transducer head
 - ◇ Characterized films and performed kinetic studies of water uptake of the polymer films
- **Research Assistant** *March 1999 – June 1999*
Department of Radiology, University of Washington
 - ◇ Designed program using Labview (programming language by National Instruments) to analyze muscle-force data
 - ◇ Utilized the program to compare relaxation rates of control muscles with muscles whose mitochondria were inhibited by the drug Pentobarbital
 - ◇ Researched relevant scientific literature and submitted analysis report
- **Diesel truck mechanic** *July 1986 – July 1990*
US Army, continued in National Guard until 1998

Teaching Experience

- **Physics Laboratory Instructor** *September 1998 – June 1999*
Physics Department, University of Washington
 - ◇ Taught first year university physics lab sequence
 - ◇ Mechanics, heat, electromagnetism, sound, light, and modern physics
- **Weight Training Instructor** *October 1994 – June 1997*
Recreational Sports Programs, University of Washington
 - ◇ Emphasized all components of physical fitness
 - ◇ Developed negotiating and organizational skills used to create and enhance customized workout plans

Other Interests

- Painting pottery and making jewelry. Some samples can be seen [here](#)
- Weight training, hiking, climbing, soccer
- Puzzles and board games

Education

- **BS in Physics, Minor in German** *June 1999*
University of Washington, Seattle, Washington
- Awarded a scholarship from the physics department to study in Giessen, Germany for one year as an exchange student; studied biophysics and German