Welcome to Academic and Research Computing (ARC) User Documentation

- **Getting Started**
- **SEAS Login Server** (how to access the SEAS compute resources)
- **How To Connect** (including info on how to set up your SSH keys)
- **Shell, Environment, and Modules** (how to load application software using the ‘module’ command)
- **Overview of Compute Resources**

For help and in-person appointments contact us at: [help@seas.harvard.edu](mailto:help@seas.harvard.edu)

For info on IT issues visit [http://www.seas.harvard.edu/computing-office](http://www.seas.harvard.edu/computing-office)

---

**Site Map**

- **SEAS Compute Environment**
  - Getting Started
  - Recovering Deleted Data
  - Using Scientific Software
    - Lumerical on the FAS Odyssey cluster (SEAS users only)
    - How to run Comsol on FAS Odyssey (SEAS users only)
    - How to run ABAQUS on FAS Odyssey (SEAS users only)
    - How to use Matlab Parallel Computing Toolbox
  - Connecting to your SEAS storage hosted in FAS RC
  - Setting up SSH Access to SEAS Hosts on Windows machines
  - SSH Access to SEAS Hosts
  - Using SEAS VPN
- **AWS Cloud**
  - How To use the CS50 Appliance in your AWS environment
  - AWS Educate
- **High Performance Computing**
  - Linux Workshop (Bytes & Bites CEE workshop) --- materials
- **Collaboration and Instructional Tools**
  - Multimedia for the Classroom
- **Version control**
  - About Version Control Systems
  - SEAS Code Repository
  - Getting Started with code.seas
  - Advanced Features of code.seas
- SEAS Code Repo Troubleshooting and FAQ
- Using the SEAS Code Repository For Courses
- Using the SEAS Code Repository For Research
- Introduction To GIT
- Gitosis source code management
- Introduction To Subversion
- Academic Computing Subversion service
- Add External User/collaborator to OpenID for code.seas authentication
- GIT Version Control
- Talks, Workshops and Tutorials
  - Talks
    - Parallel Programming (30)
    - Best Practices for Linux Security
    - Debugging and Profiling
    - TotalView Parallel Debugger
  - Workshops
    - Python Workshop - Basics (September 17, 2018)
    - Python Workshop - Numerics (September 18, 2018)
    - Introduction to Programming in Python (Computefest 15 - January 13, 2015)
    - Introduction to Programming in Python (February 2, 2015)
    - Introduction to Matlab (February 3, 2015)
    - COMSOL tutorial for classes (Heat Transfer -- February 23, 2015)
    - Introduction to Machine Learning (ML) with Python (March 31, 2015)
    - Workshop on Simulation via COMSOL (01/20/2016, 01/21/2016)
    - COMSOL tutorials for ES 176/ES 276
    - Python Workshop Basics (Older -- 2014)
    - Python Workshop - Numerics (older)
    - Introductory Python Tutorials (09/17/18 and 09/18/18)
  - Training Material
    - GPU Computing (AP 278)
    - GPU Computing (CS 205)
    - Matlab Tutorial
    - Parallel Programming
    - Python Tutorials
    - Source code version control
    - Spark on Amazon EMR (for CS 205)
      • Working on the EMR cluster (CS 205)
  - Unix
    - Documentation Overview
    - How-to articles
      • How to manage a Google Group
      • How to manage Sharepoint folder permissions
      • How to map a drive to SharePoint online
        • alternative way to map a drive to SharePoint Online
        • Issues Mapping a drive to Sharepoint Online
      • How-to obtain the IP address of your system
      • How To obtain the MAC address from your system
      • How to register a computer on the Harvard wired network
      • How to sync Sharepoint libraries with OneDrive
      • onboarding/offboarding cheat sheet
  - EECS
    - Migrating www.eecs.harvard.edu to AWS
  - SEAS VDI Instructions
    - Migrate to Harvard Enterprise GitHub (code.harvard.edu)
    - SEAS Dropbox eligibility table
    - Introduction to Cloud Computing