

FENG XUE Ph.D.

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OBJECTIVE

Scientific at heart with a strong technical mind. I am a cognitive neuroscientist and a data scientist/bioinformatics programmer/HPC admin. I am enthusiastic about data scientist positions, especially those intersect with neuroimaging/bioinformatics.

TECHNICAL PROFICIENCIES

- Machine Learning: Python/scikit-learn/pandas
- HPC: SGE, Slurm
- Virtualization: Docker, Singularity
- Matlab, Microsoft VB 6.0 / VBA, UNIX Shell, Python, R, SPSS
- Web application: ASP/MSSQL, PHP/MySQL, Python/PGSQL
- Network architect and administration, router/switch administration; Windows/Linux administration, Computational grid architect and administration.

PROFESSIONAL EXPERIENCE

Computational & Data Science Research Specialist III *UCSD 2018.12-present*

- Data curation/analysis/sharing, pipeline software optimization, HPC job management.

Bioinformatics Programmer II *UCSD 2017.2-2018.12*

- Data curation/analysis/sharing, pipeline software optimization, HPC job management.

System Architect / Contractor *BNU, the CBLSC, Beijing, China 2013.11-present*

- Architected and maintaining a Linux computing grid (SGE)

Contractor / Project Manager / Programmer *Self-employed, Beijing, China 2003-2007*

- Team leader in architect and managing enterprise intranets
- Managed Microsoft Windows Servers, switches and routers
- Team leader in designing and developing a commercial software system for enterprise personnel selection and evaluation. Used by top companies in China, including CICSO
- Team leader in designing and developing web applications for four private companies

VOLUNTEER WORK

System Architect / Programmer

- Designed and developed a software framework for scientific research projects (*BNU*)
- Architected and managed a Linux computing grid (SGE), (*BNU, 2007-2011*)
- Architected and managed a Linux computing grid (SGE), (*USC, 2011-2017*)

ONGOING PROJECTS

- The sclib project (<https://github.com/xfgavin/sclib>): a shell script library to handle csv files.
- MMPS docker image (https://www.nitrc.org/frs/?group_id=1256): compiled Multiple Model Pipeline Software docker image for the ABCD study.
- The XFSL project (<http://xfsl.fmri.cn>): a BASH script library to simplify MRI raw data management and facilitate neuroimaging data processing.

EDUCATION & CERTIFICATION

CCNA on Routing and Switching

CCNA was certified in April 2014, passed CCNP switching test in 2015

UCLA Extension, Los Angeles, CA

Operating System Administration Certificate, 2013-2014, Earned with distinction, GPA: 4.0

Beijing Normal University, Beijing, China

Ph.d. in Psychology, June 2010; B. S. in Psychology, June 2002