

Jonathan S. Callahan, Ph.D.

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Life's Work

Since my dissertation work I have been fascinated with the transformation of data into information and then into useable knowledge. It is my sincere belief that easy access to scientific/engineering data and analysis combined with excellent data visualization and user interface design can dramatically enhance the way our society benefits from the data we collect.

Education

1993 – Ph.D. in Chemistry, Univ. of Washington, Seattle, WA
1986 – B.S. in Germanic Languages, Washington University, St. Louis, MO

Experience

2007-present – President at Mazama Science
2005-2006 – Scientist/Engineer, JISAO, University of Washington
1995-2005 – Research Consultant, JISAO, University of Washington
1993-1995 – Research Associate, Depts. of Chemistry/Biophysics, Univ. of Washington

Areas of Expertise

Data architecture, management and analysis
Data visualization
Development of interactive data graphics
Browser based user interface design
Design and development of custom R packages
Running R code in a production environment
Teaching R workshops for scientists
R, python, javascript

Recent Projects using R

[FASTA Viewer](#) – Data analysis pipeline for NGS sequence data processing with an interactive data visualization website. (Center for Infectious Disease Research)

[Monitoring Report](#) – Realtime analysis and visualization of pollution monitoring data with an interactive data visualization website. (US Forest Service)

[MUSTANG](#) – Daily processing and analysis of hundreds of gigabytes of seismic data. (Incorporated Research Institutes for Seismology)