

Joe Kington

Quantitatively Oriented Geoscientist focused on Software Development

WORK EXPERIENCE

Geoscientific Software Developer

Chevron Jan 2015 – Present

Convinced management of the business need for, developed, and internally deployed small python desktop applications. Examples include an interactive 1D fault seal analysis tool (Chevron Fault Triangle) and a volumetric reprojection tool (Velocity Model Reprojector). Maintained multiple C/C++ seismic interpretation utilities.

Exploration Geoscientist

Chevron Sep 2012 – Dec 2014

Megaregional exploration and play concept development in a wide variety of frontier settings (US East Coast, MSGBC, Morocco, Barents Sea, Western India, etc). Regional interpretation and "play risk" (a.k.a. CRS) analysis for US East Coast, Morocco, and MSGBC. Sub-salt and Pre-salt interpretation and play risk analysis for Morocco.

Geoscience Intern

BP North American Gas Sep 2009 – Dec 2009

Interpreted the structural and depositional history of a shale gas reservoir using 3D seismic and petrophysical data. Statistically explored and analyzed gas production data to target and geologically explain regions of high production.

Geoscience Intern

ConocoPhillips, Alaska Jun 2011 – Aug 2011

Interpreted and compared the structural styles of three different extensional systems in the offshore Beaufort Sea, Alaska based on regional 2D seismic and sparse well data.

Teaching and Research Assistant

Univ of WI, AL, & TN Tech Aug 2003 – Jun 2012

2D and 3D seismic interpretation, Created stereo 3D visualizations for introductory geology classes, Designed and taught laboratory exercises for Remote Sensing, Environmental, Engineering, and Physical Geology. Designed and maintained department website for Univ. of Alabama and TN Tech..

Crew Trainer

McDonald's Oct 1998 – Aug 2003

Trained and supervised new employees and ensured customer satisfaction at the Hurricane Mills, TN location.

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🔗 [Stackoverflow Profile, Github](#)
🔗 [geology.beer](#)

EDUCATION

- 2007 – 2012 **Ph.D. Geoscience**
UNIV. OF WISCONSIN
Structure and Kinematics of the Nankai Trough Accretionary Prism
- 2005 – 2007 **M.S. Geoscience**
UNIV. OF ALABAMA
Plate motions and continental extension at the rifting to spreading transition in Woodlark Basin, Papua New Guinea
- 2000 – 2005 **B.S. Geoscience**
TENNESSEE TECH. UNIV.
Sequence Stratigraphy of the Mississippian Hartselle Sandstone

OPENSOURCE PROJECTS

- 2012 – PRESENT **mpldatacursor (github)**
Interactive "data cursors" (a.k.a. annotation pop-ups) for matplotlib
- 2012 – PRESENT **mplstereonet (github)**
Stereonets for matplotlib
- 2008 – PRESENT **python-geoprobe (github)**
A python module to read and write geoprobe format volumes, horizons, and faults
- 2010 – PRESENT **Community Contributions**
Occasional minor contributor to numpy and matplotlib.

TECHNOLOGY

- ADVANCED Python (Numpy, Matplotlib, Scipy, Pandas, GDAL, Shapely, etc), ArcGIS, EPOS, Openworks
- INTERMEDIATE Matlab, Bash/awk/etc, VTK, Petrel
- BASIC C, C++, Make, SQL, PHP, CSS, JS