



Jeff Norville

Curriculum Vitae

Education

- 2015–2016 **Masters 2, Dept of Earth and Environmental Science (*Sciences de la Terre et des planètes, environnement*)**, *Université Paris-Saclay*, Orsay, France, *mention Assez Bien*.
M2 Hydrologie, Hydrogéologie et Sols (M.S. Hydrology, Hydrogeology and Soils)
- 2014–2015 **University Diploma in French as a Foreign Language, (*Diplôme Universitaire de Français Langue Etrangère*)**, *Université Paris-Saclay*, Orsay, France.
- 1992–1996 **Bachelor of Arts**, *Occidental College*, Los Angeles, CA, *Exhibition project: Partitioning, bioavailability of trace metals in sediments from three California lagoons*.
Geology and Environmental Science

Masters Thesis

- Title *Development of a Verification Scoreboard Utility for Hydrological Forecasts*
- Supervisors Professor Véronique Durand, Dr. Maria-Helena Ramos, Dr. Guillaume Thirel
- Description My thesis presented a prototype verification scoreboard developed for the evaluation of hydrological forecasts as well as its design considerations and the workflow undertaken to achieve it. I wrote the user interface using R and Shiny, with a PostgreSQL data warehouse (database back-end). The design continues to be developed in partnership with the European IMPREX project (IMproving PRedictions and management of hydrological EXTremes).

Computer Skills and Programming Languages

- Basic Fortran, C++, C#, JavaScript
- Intermediate Database (PostgreSQL & PostGIS, SqlServer), Java, LaTeX, Linux (Redhat, Ubuntu), Python; data modeling, predictive modeling, forecast validation
- Advanced Big data management; R, RStudio Shiny; git and github; Excel, Access (Office automation); Eclipse (IDE), including plugin development; Windows NT through 10

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Modeling codes GeoStudio SEEP and SLOPE, Groundwater Vistas, GR4J hydrology model, HELP landfill model, MODFLOW (CLI) and custom FloPy/Matlab libraries, ModelMuse, PEST parameter estimation package, QGIS/GRASS/SAGA spatial toolset

Experience

Professional Experience

- 2010–2014 **Project Hydrogeologist**, *Golder Associates AB*, Stockholm, Sweden.
Groundwater modeling, field director in Arctic mining TMF site risk analysis, data manager for Swedish nuclear waste repository.
- Groundwater modeling:
 - Data management and interpretation, site descriptive modeling reporting for SKB (Swedish nuclear waste authority *Svensk Kärnbränslehantering AB*)
 - GeoStudio SEEP and SLOPE 2D numerical model for Trafikverket (Swedish traffic authority), Northland Resources, and other mining clients
 - Groundwater Vistas (MODFLOW-NWT, -2005) numerical model support
 - ModelMuse (MODFLOW), GWChart training and expertise
 - Parameter Estimation (PEST, Watermark Numerical Computing) conditioning and model regularization
 - Field director for hydrogeologic investigation on a tailings management facility in Norrbotten County (67 deg 11' north):
 - Winter health and safety leadership
 - Downhole slug and pump test and evaluation
 - Software development and support:
 - Automated datalogger integration (for Geometrik, Golder Sweden's daughter company)
 - VisualStudio 2010 (C#) integrated with EQUIS and Gaudi, Golder's internal library
 - MS Office VBA (Access, Excel) and XML integration (Excel)
 - Designed and gave training seminars for Golder's younger team member interested in advanced Excel capabilities
- 2008–2010 **Senior Staff Geologist**, *GSI Water Solutions, Inc.*, Portland, Oregon.
Performed a combination of high-level office and IT work; collaboration with regulators, the public, and potential adversaries in the Portland Harbor project; and support for groundwater models.
- Field Director for high-profile Portland Harbor Superfund-initiated fieldwork (client: City of Portland).
 - Database and fieldwork support for former creosote treatment facility adjacent to Willamette River.
 - Designed and built groundwater measurement, boring, well, and geophysical log data management tool for five-county Groundwater Management Area (GWMA) consortium in eastern Washington.
- 2007–2008 **Project Geologist**, *New Sesco Group*, West Linn, Oregon (based in Indiana).
Office and field manager for environmental monitoring and cleanup sites. Projects included several dry cleaners, former services stations, former aerial pesticide wash-down, and an operational pharmaceutical company.

- 2005–2007 **Senior Staff Geologist**, *Hart Crowser, Inc.*, Lake Oswego, Oregon.
 Managed Oregon DEQ remediation projects through the “orphan” (sites no longer in business, which the State of Oregon had become responsible for) contract program. Developed office’s competence and market for stormwater plans (city and federal) through Oregon, Washington and Idaho.
- Completed stormwater mitigation plans (SWPCPs) for several industrial facilities located along the sensitive Columbia Slough north of Portland, Oregon
 - Stormwater system documentation, permitting, and system upgrades for industrial clients. Deliverables included SWPCPs and Spill Prevention, Control and Countermeasure (SPCC) Plans; clients performed facility upgrades with engineering support to met benchmark goals
 - Performed and updated due diligence, SPCC plans, and a large remediation project (multi-phase pump and treat) for eastern-Oregon bulk fuel handler
 - Due diligence projects in Oregon and Washington, leading to additional action on agricultural sites; service station and dry cleaner sites; and a battery recycling and manufacturing facility
 - Delineated and excavated PCB-impacted soils in former metal recycling facility in Vancouver, Washington
 - Geotechnical project field support for various commercial and residential developments in Oregon and Washington
- 2005–2005 **Geologist, Sole Proprietor**, *Norville Consulting*, Portland, Oregon.
 Due diligence reports (ASTM E1527-2005) for major US-based cell provider tower expansion project; quarterly groundwater monitoring and report for agricultural cooperative located in eastern Oregon; tank decommissioning, sediment sampling, and Oregon-specific file research and compliance reports.
- 2003–2005 **Staff Geologist**, *GeoDesign, Inc.*, Tualatin, Oregon.
- Groundwater model (Visual MODFLOW and PEST inverse modeling techniques) for Potlatch Corporation hydraulic connection study. Integrated installation of five new monitoring wells by air rotary drill with 10+ years history on the site.
 - Landfill gas monitoring and methane abatement support, conducting vapor barrier certification and coordination with California-based engineering firm.
 - Many Phase I and Phase II projects completed with aggressive time and budget constraints.
 - Subsurface exploration experience using direct push, hollow-stem auger, bucket auger, and air-rotary techniques. Sampled using split-spoon, Shelby tube and direct-push sleeves.
- 2002 – 2003 **Sole Proprietor**, *Jeff Norville Consulting*, Portland, Oregon.
- Software specifications review and data structure design, VBA and MS Access application (Portland area cellular phone plan retailer).
 - Java and PL/SQL stored procedure development (Standard Insurance, internal tracking application).
 - Visual Basic application source code review and documentation (Timberland Software).
- 2000 – 2002 **Interactive Voice Response (IVR) Engineer**, *PreNet (PreCash) Corporation*, Portland, Oregon.
- Telecom and computer skills to design and build database and CTI applications on Interactive Voice Response (IVR) systems.
 - Designed highly-available IVR systems to handle 3,000+ calls per day using Windows NT, Dialogic hardware and Parity VOS; provisioned lines with telcos Sprint and AT&T.
 - Built testing “harness” application to simulate high call volumes for hardware/telco loadtesting, and to track system latencies.
 - Developed SprintPCS Payment Card System, Verizon Wireless, PreCash payment systems.

Early Career Experience

- 2002–2010 **Sea kayak coach**, *Alder Creek Kayak & Canoe*, Portland, Oregon.
Lead *Certified 4-Star paddler, 3-Star coach*, by the *British Canoe Union*.
- 1997–1999 **Sea kayak guide, webmaster**, *Monterey Bay Kayaks*, Monterey, California.
Guided groups safely experiencing the wilder parts of the Monterey Bay National Marine Sanctuary. Developed an online presence, shopping and booking system which attracted attention from tech startups around San Jose and the Silicon Valley. *Certified Advanced Open Coast* by the *American Canoe Association*.

Communication Skills

- 2014 - 2015 Water resource lecturer for environmental science students at the American University of Paris, an American-accredited liberal arts college in Paris.
- 2007 - 2008 Public speaking engagements with local outdoor clubs and enthusiasts, delivering slide presentations of speed record set kayaking around Vancouver Island, Canada, in May 2007.
- 2001 - 2009 Guest instructor and lecturer on sea kayak advanced open coast skills, navigation, and on-water coach.
- 2001 - 2008 Assistant coach for Portland Canoe & Kayak Team (PKCT).

Languages

English	Mother tongue	
French	Intermediate	<i>Con conversationally fluent</i>
Spanish	Basic	<i>Basic words and phrases</i>
Swedish	Basic	<i>Basic words and phrases</i>

Interests

- Nordic ski
- Water rights & advocacy
- Open source software
- Kayak, canoe
- Rock climbing