

Jennifer Oblinger

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EDUCATION

Clemson University, Clemson, South Carolina
Masters of Science in Hydrogeology May 2008
GPA 3.9
Bachelors of Science in Geology May 2005
Minor in Biological Sciences
Summa cum Laude

EXPERIENCE

GIS Specialist August 2009-April 2011
Georgia Department of Natural Resources – Environmental Protection Division
Atlanta, GA

- Coordinated the development and design of a geodatabase and digitized the locations of permitted facilities such as point source discharges, wastewater facilities, and Land Application Systems from historic paper files and permits
- Maintained and updated the geodatabase for the 305(b)/303(d) Impaired Waters List for 2008 and 2010 for the state of Georgia using the National Hydrography Dataset (NHD) at a 1:100,000 scale to ensure the accuracy, currency, and completeness of the data
- Used topographic maps and the Watershed Boundary Dataset 12-Digit Hydrologic Units (HUC) to delineate watersheds for Total Maximum Daily Load calculations
- Assisted in Georgia State Water Plan project planning through providing estimates of time and resources required to deliver cartographic products
- Developed procedures for digitizing tabular dissolved oxygen modeling results
- Developed and designed a geodatabase and various cartographic products displaying dissolved oxygen modeling results for the Georgia State Water Plan
- Updated and maintained the dissolved oxygen modeling results geodatabase and cartographic product sets ensuring accuracy and currency
- Acted as a liaison between engineers and upper level management to ensure data quality and consistency for modeling efforts for the Georgia State Water Plan
- Coordinated development and design of a geodatabase and digitized the monitoring stations sampled by external consultants for Watershed Assessments
- Developed python code to streamline geoprocessing tasks including Spatial Analyst to reclassify and calculate the percentage of various land uses using the Georgia Land Use Trends (GLUT) dataset within watersheds upstream of biological reference sites
- Designed and created cartographic products for internal and external meetings
- Provided assistance and technical support in data extraction, manipulation, and simplified python and visual basic applications to staff and external consultants

AVID Tutor September 2008-May 2009
Cobb County Schools
Marietta, GA

- Assisted high school students at 4 different high schools in various levels of math and science
- Assisted students by using the Socratic Method to guide students to answer their own questions
- Instructed students on different study skills and assisted students in applying appropriate study habits
- Worked with students on college planning including goal setting and SAT preparation

GIS Consultant May 2008-August 2008
OneGIS
Atlanta, GA

- Conferred with customers and configured Telcordia's Network Engineer per client specifications
- Tested and documented errors in new versions of Network Engineer software
- Coordinated with internal staff to install and configure Oracle 10g Databases
- Assisted external customers in loading data into Network Engineer by examining XML log files for errors and documenting proper procedures to work around errors
- Wrote software documentation materials for external customers

- Masters Research May 2006-May 2008
 Clemson University
 Clemson, SC
- Characterized the hydrogeology of a small watershed in rural India
 - Coordinated with local NGO officials for field work purposes and collaboratively developed analyses of geophysical results
 - Compiled hydrogeologic data collected in the field using ArcGIS
 - Formulated a conceptual model for the geologic controls on the hydrogeology
 - Developed a mathematical model to simulate the water balance over a dam in the watershed to evaluate effectiveness of the dam as a groundwater recharge pressure
 - Presented preliminary results in a poster session
 - Presented oral paper at the Ground Water Summit and the Clemson Hydrogeology Symposium in April 2008
- Athletic Tutor January 2006-May 2008
 Clemson University
 Clemson, SC
- Assisted student-athletes with questions in calculus and geology and in some cases retaught the material
 - Provided guidance on time management and study skills
- Introductory Geology Teaching Assistantship August 2005-May 2008
 Clemson University
 Clemson, SC
- Instructed students on rock and mineral identification and map reading techniques
 - Expanded students' knowledge of recent developments in aerial photography through the use of Google Earth assignments which required students to apply what they had learned in lecture and in lab to real world situations
 - Developed learning materials, such as handouts, quizzes, and exams
 - Trained other graduate students on subject matter and assisted with teaching techniques
 - Assisted professors with daily tasks including proctoring exams
 - Held weekly office hours where students could come for assistance in either lecture or lab
- Supplemental Instruction Supervisor August 2005-December 2005
 Clemson University
 Clemson, SC
- Logged Supplemental Instruction Leader attendance
 - Monitored and assessed Supplemental Instruction Leaders sessions
 - Provided guidance to Supplemental Instruction Leaders on how to improve their sessions and tips on how to increase student participation
- Undergraduate Research August 2004-May 2005
 Clemson University
 Clemson, SC
- Conducted aggressive behavior experiments using *Procambarus clarkii*
 - Recorded data from videotaped experiments
 - Cared for own research subjects and those of other students
 - Delivered results in a poster session and presentation
- Supplemental Instruction Leader August 2002-May 2005
 Clemson University
 Clemson, SC
- Assisted students with questions in calculus using the Socratic Method
 - Provided guidance on time management, study skills, and learning styles
 - Attended bi-weekly meetings and networked with other Supplemental Instruction Leaders to solve common problems
- Hand Building Ceramics Instructor February 2003-April 2003
 Clemson University
 Clemson, SC
- Instructed students on the correct techniques of hand building pottery
 - Maintained a clean environment for students before, during, and after the scheduled meetings
- Microsoft Access, Microsoft Excel, Microsoft Powerpoint, Microsoft Word, HTML, GPS, ESRI ArcGIS 10 and 9x, Visual Basic, Python, Adobe Creative Suite 2

COMPUTER SKILLS

**HONORS &
ORGANIZATIONS**

- Group Fitness Instructor Certified 2011
- PyCon Scholarship to attend Conference 2011
- NGWREF Farvolden Scholarship 2008
- National Association of Geoscience Teachers TA Award 2007
- Taking Action For Animals Scholarship to attend Conference 2007
- Clemson University Faculty Scholarship Award 2005
- Thomas F. Logan Jr. Geology Merit Award 2005
- HHMI SC Life Grant for Undergraduate Studies 2004-2005
- Clemson University President's List 2001-2005
- Paul K. Birkhead Memorial Scholarship 2001-2002
- Aerobics and Fitness Association of America 2011-current
- National Speleological Society 2006-2011
- Geological Society of America 2005-2008