JoAnn Alvarez

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Eight years’ experience independently providing analytical support for research projects, with responsibilities including wrangling complex data sets, investigating anomalies, creating reports, and generating insights by driving and refining the right-question process.

**EXPERIENCE**:

**Vanderbilt University School of Medicine**, Department of Biostatistics, Nashville, TN **Biostatistician II and III**, September 2008 to present

* Perform biomedical research in oncology, urology, neurology, orthopedics, and pediatrics.
* Work collaboratively to understand and refine researchers’ project objectives and develop analytic strategies for fulfilling those requirements.
* Communicate extensively with team members at all levels: principle investigators, doctors, database personnel, and collaborating statisticians.
* Published 19 articles in 15 professional journals. Statistical reviewer on 50+ manuscripts.

**American Academy of Family Physicians, Robert Graham Center,** Washington, DC **Statistical Analyst,** Summer 2008

* Performed statistical analysis and programing utilizing American Medical Association (AMA) medical school graduate database.

**National Institutes of Health (NIH)** and **National Cancer Institute (NCI)**, Bethesda, MD **Intern** Summer 2007

* Evaluated integrity of clinical trial research emphasizing modern, distribution-free statistical methods.

**University of Maryland, Mathematics Dept.**, College Park MD

**Lecturer**, Jan 2007 to May 2008; **Advisor**, Jan 2006 to Dec 2006

* Successfully taught six courses in undergraduate probability/statistics as sole instructor.
* Advised students on appropriate course selection and career path.

**St. Jude Children’s Research Hospital**, Memphis TN

**Intern** Summer 2003

* Augmented cancer registry database by interviewing childhood cancer survivors for late-occurring treatment effects, which tracked patients’ survival status.

**TECHNICAL SKILLS:**

* Programming**: Python**, **R** (data.table, graphics, ggplot2, dplyr), **MATLAB**, **SAS**
* Operating Systems: Linux, Mac OS
* Reporting Applications: knitr, LATEX, markdown.
* Other: bash shell/command line scripting, git, subversion, regular expressions/regex, SQL.
* Machine learning
* Superior written and verbal communication skills
* Experienced public speaker, lecturer, facilitator, and consultant

**EDUCATION:**

**Master of Arts, Mathematical Statistics**, University of Maryland, College Park, MD, Aug. 2008 **Bachelor of Science, Mathematics**; Concentration: Statistics, University of Memphis, TN, May 2004

**CERTIFICATIONS**: Programming for Everybody (Getting Started with **Python**) 2016 July, University of Michigan on Coursera

**Python** **Data Structures** 2016 July, University of Michigan on Coursera, Received perfect score of 100.

**INTERESTS**: Classical violinist, Nashville Philharmonic Orchestra, 2013-14; Latin Dance