NIH BIOSKETCH EXAMPLES

These excerpts of real-world "Personal Statement" and "Contributions to Science" sections from NIH-funded grant applications were provided by members of the Center for Biostatistics (CFB) for your information and reference. We <u>strongly</u> recommend discussing your application with other CFB members if you have any specific questions.

Examples of Personal Statements:

<mark>Example #1: Biostatistician with general experience:</mark>

As a biostatistician in the Center of Biostatistics at The Ohio State University, I collaborate with biomedical researchers across a variety of disciplines. Throughout my collaborations, I have worked with investigators to address biologically relevant questions and solve statistical issues that arise in the context of their research applications. In my role, I perform data analysis on a broad range of biomedical research projects extending from exploratory data analysis, to advance statistical modeling and inference. I also routinely perform duties in: data monitoring and management (serving as a database manager/collaborating with other researchers on database design for research projects); data cleaning and validation to identify potential data problems and take appropriate action to ensure consistent, accurate and valid conclusions; and assistance in manuscript preparation and the dissemination of research results. Additionally through my collaborative work, I have established an ongoing relationship with the [name of department/program] at The Ohio State University where I work closely with investigators in the context of data monitoring, management, and analysis on a variety of [department/program] related projects. This experience in the field of [department/program] and as well as my expertise in data management and monitoring makes me a suitable fit for this research team given the extensive data collection proposed. I will work closely in collaboration with the study team to lend my expertise and knowledge based on prior experiences on issues related to design, implementation, data collection, and analysis to ensure success and quality in the execution of the statistical aspects outlined in this proposal.

<mark>Example #2: Biostatistician with general experience, without publications with the PI:</mark>

I am a biostatistician in the Center for Biostatistics in the Department of Biomedical Informatics at The Ohio State University College of Medicine. I have over [# years] years of experience working with studies in design, oversight, data management, quality control and analysis and have been collaborating with members of the [name of department/program] since [year]. I have been involved with this current project from the beginning of the development of the aims and have contributed to the research design and power calculations. As a co-investigator on this study I will work closely with the research team throughout the study from advising on the structure of the data collection instruments, data quality audits, statistical analyses and reporting of results.

==Example #3: Early career research scientist==

I am currently a Research Scientist in the Center for Biostatistics in the Department of Biomedical Informatics at The Ohio State University. In my position, I collaborate with researchers throughout The Ohio State University, The Ohio State University Medical Center, and Nationwide Children's Hospital on projects from lab science to clinical research to public health. Throughout my collaborations, I have worked with investigators to solve statistical issues that arise in the context of their research applications. As a Ph.D. student, my dissertation research in statistics had several applications in the field of genetics and high dimensional data. I have a methodological expertise in modeling interaction effects when the number of predictors far exceeds the sample size, such as in identifying combinations of gene expressions. I also have expertise in algorithm implementation, including Feasible Solutions Algorithms (FSAs) to identify interaction effects in large data sets. More generally, my interests are to address biologically relevant problems through the development and application of statistically appropriate methods.

I am excited to work with [PI] on [his/her] R01 proposal ["title"]. This study focuses on gaining insight on how interpersonal trauma and neurobiological risk factors are related to the development of alcohol use disorder in young adults. My experience collaborating with researchers across many disciplines and in the fields of basic science, clinical application, and population-based studies makes me great fit to support this proposal. Specifically, my expertise in algorithm implementation and analyzing correlated longitudinal data will be useful to this particular study. I will lend my expertise and knowledge based on prior experiences on issues related to design, implementation, and analysis to complete the statistical aspects outlined in this proposal. I look forward to working with [PI] on this innovative study.

Examples of Contributions to Science:

When you have papers to highlight, but not with the PI of the grant:

(These examples show how to describe collaboration as one of your key contributions to science)

Example #1:
In addition to my primary research area, I have participated in several collaborative projects, including those resulting in the publications below. I have worked on the design and analysis of projects from basic lab science to agricultural science to neuropathology and patient preferences. In each case, I have shown the ability to work with researchers with diverse backgrounds and research interests. I am able to combine my statistical expertise with my collaborators' subject area expertise to produce meaningful and often publishable results. In these projects, I participated as a statistician, completing analysis work, including any statistical modeling required by the project.

Example #2:
My contributions as a biostatistician include planning and design of clinical trials and observational studies, providing oversight for the ongoing studies, and analyzing and summarizing the resulting data. This includes model building of complex designs, specifically prediction models using regression techniques.

Example #3:
I have established collaborations in research teams in the design and analysis of studies exploring the relationship between various pathological technique results such as the hybrid capture 2 test for human papilloma virus (HPV) and clinical and demographic outcomes such as ages and BMI. Many of these studies were the first to explore these relationships.