NADIA M. AKHTAR

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SUMMARY OF QUALIFICATIONS

- Biostatistics and Chemistry research skills with first-hand experience in various collaborative settings
- Motivated and responsible with strong teaching and leadership experience
- Able to communicate and work well with others; devoted to community service
- Multi-lingual: fluent in English, Spanish, and Urdu
- Proficient in Microsoft Office, SAS (Statistical Programming Language), and R

WORK EXPERIENCE

Fred Hutchinson Cancer Research Center ASAN Software Solutions (formerly PRM) Minneapolis, MN
Director August 2013 – Present

- Analyzed clinical data to address provider-driven hypothesis; conveyed actionable data and conclusions to clinicians to improve healthcare processes and outcomes
- Managed several projects simultaneously; ensured customer satisfaction while engaging new clients
- Oversaw the development of new products; worked with the development team to establish quality improvement processes and improved the efficiency of development
- Directed the marketing and sales of software solutions; gained content knowledge of specialized care to identify potential areas for growth
- Negotiated long-term projects and successfully implemented solutions for several customers
- Developed and maintained working relationships with both collaborators and stakeholders to better leverage customized software solutions in the market

Fred Hutchinson Cancer Research Center Genetics and Epidemiology of Colorectal Cancer Consortium (GECCO) Seattle, WA
Statistical Research Associate February 2013 – August 2013

- Collaborated with external investigators to formulate a scientific question of interest; designed and conducted analysis plans to test hypothesis correlating large scale genetic data and risk of colorectal cancer
- Communicated results, statistical, and epidemiological issues to investigators and stakeholders
- Conducted technical review of manuscripts and R code used in statistical analyses
- Edited grant proposals and applications

Fred Hutchinson Cancer Research Center SCHARP, Vaccine and Infectious Disease Seattle, WA
Statistical Research Associate October 2012 – February 2013

- Performed statistical analysis on data from clinical trials testing the efficacy and immunogenicity of HIV vaccinations
- Assisted with the development of study forms and data management for various HIV vaccine clinical trials
- Summarized ongoing trial results for review and to ensure equipoise and safety

Fred Hutchinson Cancer Research Center Department of Computational Biology Seattle, WA
Statistical Analyst June 2012 – October 2012

- Conducted survival analysis of individuals with Esophageal cancer using incidence data from SEER
- Explored initial analyses to best parameterize survival of these individuals; through statistical testing, obtained a parsimonious and descriptive model with significant factors predicting survival
- Implemented analysis methods independently using SAS, R, and CANSURV software
- Became well-versed in the biological, multi-stage mechanisms leading to Esophageal cancer and used empirical data to validate mathematical modeling
- Presented results at CISNET (Cancer Intervention and Screening Network) conference at NCI characterizing temporal changes in cure rates of Esophageal cancer patients; summarized analysis for use by the consortium to predict cancer incidence and burden

EDUCATION

Master of Science, Biostatistics May 2012
University of Michigan, School of Public Health and Rackham Graduate School Ann Arbor, MI
Certificate in Public Health Genetics

Relevant Coursework 2008 - 2009
University of Minnesota, School of Public Health Minneapolis, MN
Biostatistics I, Epidemiologic Methods I, Epidemiologic Methods II

Bachelor of Science, Chemistry 2003 - 2007
Creighton University, College of Arts and Sciences Omaha, NE
Minors: Biology and Biophysics

RESEARCH EXPERIENCE

University of Michigan Center for Statistical Genetics Ann Arbor, MI
Research Assistant May 2011 – September 2011

- Conducted data analysis of E.Coli genomes comparing commensal and pathogenic strains using evolutionary models for genetic divergence
- Analyzed statistical genetics data using Perl (programming language)
- Performed and synthesized literature reviews on relevant statistical and biological topics for grant review

Minneapolis Clinic of Neurology Golden Valley, MN
Clinical Research Coordinator June 2009 – August 2010

- Reviewed patient charts to screen for eligibility in experimental and observational trials related to stroke treatment and prevention
- Applied study protocol and inclusion and exclusion criteria to administer subject enrollment
- Facilitated correspondence between local IRB, PI, and study sponsor

University of Minnesota, College of Biological Sciences Minneapolis, MN
Program Assistant for Autism Initiative February 2008 – July 2008

- Aggregated genetic findings from a cohort of autistics and controls; presented results for publication
- Conducted pertinent scientific literary reviews
- Characterized CNV (chromosomal copy-number variation) duplications and deletions in autistics versus controls
- Coordinated fund-raising events for the autism center at the University of Minnesota
- Worked with pediatricians and clinical psychologists to establish appropriate goals and services to address health care needs of families of children with special needs for a future multi-service clinic

Creighton University, Chemistry Department Omaha, NE
Organic Research Assistant Fall 2007

- Researched structures of cancer treatment drugs to create similar molecules using Fullerene chemistry
- Synthesized brominated C-60; Isolated purified C-60 compounds before and after addition reactions
- Worked independently and with other students on literary research, synthesis, and running NMR
- Quantified results using digital techniques
- Communicated results and study progress to investigator
- Wrote methodical protocol for experiments to be used in undergraduate chemistry laboratory coursework

Creighton University, Physics Department Omaha, NE
Ferlic Scholar Summer 2006

- Received a ten-week summer scholarship to participate in a directed research program
- Presented a poster summarizing research methods and conclusions

RELEVANT EXPERIENCE

University of Minnesota Minneapolis, MN
Academic Tutor October 2009 – August 2010

- Instructed high school students in areas of Biology, Chemistry, Physics, Algebra, and Pre-calculus
- Developed students' study strategies and problem solving skills

Creighton University, Student Activities Omaha, NE
Faculty-Elected Student Decurion Fall 2007

- Advised students and led weekly Freshman seminars, mentored first semester college students

St. David's Child Development and Family Services Minnetonka, MN
Personal Care Assistant August 2008 – August 2010

- Worked independently with Autistic children and young adults 10-15 hours per week
- Assisted with daily living skills, social skills, and behavior management
- Set up goals and implemented care plans and dynamic strategies suited to individual needs

COMMUNITY SERVICE and ACTIVITIES

Phillips Neighborhood Clinic Minneapolis, MN
Interpreter September 2008 – August 2009

- Interpreted between Spanish-speaking patients and health care providers at a free. student-run, clinic
- Advocated for patients, found applicable insurance programs, and participated in patient follow-up
- Analyzed and worked on solutions to administrative and pragmatic concerns of running a free clinic
- Participated in fund-raising and community outreach and education
- Co-lead new member orientation and educated students about cultural diversity and sensitivity at the clinic

Centro de Salud Minneapolis, MN
English Tutor December 2008 – May 2009

- Instructed Spanish-speaking adults in basic English vocabulary and grammar
- Created a syllabus and evaluation process to measure students' progress
- Coordinated food shelf donations

Creighton University Omaha, NE
Academic Tutor Fall 2007

- Tutored undergraduate students in General and Organic Chemistry

Dar-ul-Sukoon (Orphanage) Karachi, Pakistan
Volunteer August 2008

- Instructed and cared for orphaned children with varying physical and developmental disabilities
- Developed behavioral therapies, lesson plans, and activities for those with undiagnosed needs

RELEVANT COURSEWORK

Theoretical Biostatistics
Probability and Distribution Theory
Biostatistical Inference

Applied Biostatistics
Applied Statistics I: Linear Regression
Applied Statistics II: Extensions of Linear Regression

Applied Statistics III: Analysis of Correlated and Longitudinal Data
Categorical Data Analysis
Survival Analysis
Clinical Trials
Bayesian Analysis

Genetics
Statistical Models and Numerical Methods in Human Genetics
Genetics in Public Health
Genomics in Epidemiology

Other
Introduction to SAS (Statistical Programming Software)
Ethics in Public Health Genetics
Cancer Epidemiology
Cancer Seminar