TATIANA A. KOVYRSHINA

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SUMMARY

Skilled data scientist with a master's in public health and four years of experience supporting biostatistical analysis initiatives. Strong scientific curiosity with solid problem-solving/decision-making skills and a background supporting concurrent projects. Proficient with multiple data languages and statistical modeling methods with the ability to programmatically restructure databases to facilitate analyses. Bilingual in English and Russian.

TECHNICAL SKILLS

SAS/EIS	SAS Macros	SAS AF FRAME	C#
R	LaTex	STATA	SPSS
SQL	Advanced Word	Advanced Excel	Advanced PowerPoint

EXPERIENCE

2013 – Present **Houston Methodist Hospital** **Houston, TX**

Data Specialist

- Support principal researcher in the development and continuation of biomedical informatics research initiatives in the Biostatistics department, including analysis of research data and communication of research results
- Completed three research studies (fourth in progress) with associated publications in the online journal *Heliyon* as well as in the proceedings of the 13th International Meeting for Computational Intelligence in Bioinformatics and Biostatistics
- Collaborated on a research investigation to determine the order of somatic gene mutations in a cancerous cell, using R to extract data from cBioPortal, writing a permutation-based algorithm in C#, and employing computational methods to determine progression inference of genomic alterations in cancer
- Contributed to a NASA grant that predicted the risks of cancer as a result of space radiation exposure for astronauts on a Mars mission, obtaining cancer incidence data from CDC Wonder and performing multiple analyses requiring programming in C# (life tables, double-decrement life tables, standardized mortality ratio calculations, Monte Carlo simulations, and risk estimates)
- Assisted with analysis of microarray data of human cells, exploring pathway activation in cancerous cells and comparing those to the pathways activated in normal cells.
- Provide informatics support for the in-progress investigation to determine the role of repair gene expression on the progression of cancer

2015 – 2017 **University of Houston- Downtown** **Houston, TX**

Adjunct Professor

- Prepared and facilitated lectures, lesson plans, and exams for *Statistical Literacy*, a core class to fulfill the requirement of a math credit as an alternative to taking a pure math course

2016 – 2017 **Sam Houston State** **Huntsville, TX**

Adjunct Professor (Online)

- Developed strategies to engage students while instructing online courses, including *Fundamental Health Promotion and Health Careers,* a freshman level course for Health, Nursing, Public Health majors, as well as *Environmental Health*, a senior level course for Public Health majors

EDUCATION

UT Health Science Center **Houston, TX**

Master of Science in Public Health, Biostatistics, Minor in Epidemiology (2014)

Sam Houston State **Huntsville, TX**

Bachelor of Science, Mathematics, Minor in Statistics Theory (2012)