Timothy M. Farrell

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Objective

A part-time position in and/or clinical research setting.

Summary

Graduate student in Bioinformatics with experience in biomedical research and clinical information management. Detail-oriented, fast-learner, capable of completing tasks independently.

Education

Master of Science, Bioinformatics, *Jan 2016 (expected)*
Boston University, Graduate School of Arts and Sciences/ College of Engineering
GPA: 3.58/ 4.0

Bachelor of Science, Biomedical Engineering, *May 2012*
Rutgers, School of Engineering
GPA: 3.31/4.0

Work Experience

Engineering Officer, *Nov 2013 - present*
US Army Reserve, Londonderry, NH

Medical Operations Officer, *May 2012 - Nov 2013*
US Army Reserve National Guard, Woodbury, NJ

- Maintained the medical readiness of the unit's 400 soldiers by managing soldier health assessment data and producing actionable information for leadership.
- Ranked top 10% among peers in annual Officer Evaluation Report.

Clinical Information Manager, *July 2012 - Mar 2013*
ScribeAmerica, St. Mary's Medical Center, Langhorne, PA

- Collected, processed and organized patient clinical information in electronic medical record (EMR) in fast-paced emergent environment.

Research

Optimization of stem cell immunomodulation therapy, *Aug 2011 - May 2012*
Rutgers Department of Biomedical Engineering, Piscataway, NJ

- Worked to optimize the functionality of a novel stem cell-based immunomodulatory therapy to treat localized autoimmune and inflammatory diseases.
- Employed microscopy and ELISA in assessing stem cell viability and functionality.
- Developed proficiency in laboratory documentation and data collection and analysis.

Projects

Gene regulation model of hematapoietic stem cell emergence, *Spring 2014*

- Implemented deterministic gene regulatory network model of hematopoietic stem cell emergence using CL-MATCONT, a bifurcation continution package for MATLAB.

Metabolic model for hepatic tissue engineering, *Fall 2010*

- Implemented a kinetic model of hepatocyte metabolism for hepatic tissue engineering applications using MATLAB/ Simulink.

Skills

Mathematical modeling: *MATLAB/ Octave*.

Data processing/ analysis: *Python, Java, Excel.*

Laboratory: *ELISA, flourescence microscopy, LabVIEW.*

Programming: *Java*, *Python, C, HTML/CSS, GNU/Linux command-line.*

EMR/ EHR software: *IBEX/Picis-ED PulseCheck, MEDITECH, MEDPROS.*