

# 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.

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## 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

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## 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.
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## PROJECTS

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

- Implemented deterministic gene regulatory network model of hematopoietic stem cell emergence using CL-MATCONT, a bifurcation continuation 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.
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## SKILLS

Mathematical modeling: *MATLAB/ Octave*.

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

Laboratory: *ELISA, fluorescence microscopy, LabVIEW*.

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

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

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## 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.