Kyle Martin

A Biomedical Engineer and Lifelong Learner

I have over 10 years of experience learning, applying, and adapting skills to overcome new challenges. I've lead numerous projects, either solo or heading a small team to accomplish our goals.
I love problem solving and developing new expertise.

Contact

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Education

PhD Biomedical Engineering
University of Virginia
2009 - 2015

B.S. Biomedical Engineering
Drexel University
2005 - 2009

Skills

Scientific
Cell Culture
qPCR
Immunohistochemistry

Computational
Matlab & R
Data Processing & Analysis

Interpersonal
Outgoing
Leadership & Mentorship
Time Management

Communication
Oral Presentations
Scientific Writing

Experience

Research Scientist — 2017 - Present
Karolinska Institutet | *Stockholm, Sweden*

Coordinated multiple resources to study nerve and adipose crosstalk:
- Develop and optimized a microfluidic device system
- Generated and analyzed an RNAseq dataset using R
- Evaluated target genes for therapeutic potential

Research Scientist — 2016 - 2017
University of Virginia | *Charlottesville, VA*

- Lead a project to investigate exogenous stem cell fate in tissue engineered muscle constructs
- Stained and analyzed skeletal muscle sections for stem cells, macrophages, and muscle fibers
- Organized a small team to perform rodent experiments
- Mentored 11 senior design teams (from 2009 through 2017) and acted as a liaison between the teams and clients

Graduate Student — 2009 - 2015
University of Virginia | *Charlottesville, VA*

- Created computational models of skeletal muscle remodelling
- Used machine learning (genetic algorithms) to parameterize and optimize my models
- Developed a 2D Fourier transform application in Matlab for rapid image analysis of muscle sarcomere length
- Spoke at numerous conferences (poster sessions, talks)

Volunteer Organizer — 2011 - 2017
SwingCville | *Charlottesville, VA*

- Taught Swing dancing
- Part of a committee that organized weekly dances, developed curriculum, and trained instructors/DJs