Thomas Samuel O'Leary

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Education

2019 – now PhD Student, Biology, Mentor: Dr. Brent Lockwood, University of Vermont, *Burlington, VT*
2012 – 2016 B.A. Biology, C*um Laude*, University of Vermont, *Burlington, VT*

Fellowships & Awards

2019 – now National Science Foundation (NSF) Research Traineeship Fellow, QuEST, *University of Vermont*
2012 – 2016 UVM Presidential Scholarship
2012 – 2016 UVM Men's Track and Field Athletic Scholarship
2015 America East All-Academic Team
2012 Physics Subject Award

Professional Experience

2018 – 2019 Lab Research Technician, Previs Lab, *Dept. Mol. Phys. & Biophys, University of Vermont*
2017 – 2018 Lab Research Technician, Lockwood Lab, *Biology Dept., University of Vermont*
2016 – 2017 Molecular Biology Laboratory Technician I & II, *Charles River Labs, Malvern, PA*

Publications

Helms, A.S., Tang, V.T., **O'Leary, T.S.**, Friedline S., Wauchope, M., Arora A., ... Day S.M. (2020). Effects of *MYBPC3* loss of function mutations preceding hypertrophic cardiomyopathy. *Journal of Clinical Insights, 5*(2) e133782.

O'Leary, T. S., Snyder, J., Sadayappan, S., Day, S. M., & Previs, M. J. (2019). MYBPC3 truncation mutations enhance actomyosin contractile mechanics in human hypertrophic cardiomyopathy. *Journal of Molecular and Cellular Cardiology, 127*, 165–173.

Li, A., Nelson, S. R., Rahmanseresht, S., Braet, F., Cornachione, A. S., Previs, S., **O'Leary, T.S.,** ... Warshaw, D. M. (2019). Skeletal MyBP-C isoforms tune the molecular contractility of divergent skeletal muscle systems. *Proceedings of the National Academy of Sciences*, *116*(43), 21882–21892.

Rahmanseresht, S., Lee, K. H., **O'Leary, T.S.**, Robbins, J., Warshaw., D. M., Craig, R., & M. J. Previs. (submitted for publication). Fluorescence imaging of actin and myosin-binding protein C in cardiac muscle with nanometer accuracy.

Teaching

Teaching Assistant

2020 – now Genetics, sophomore level for science majors, *University of Vermont*
2019 – now Comparative Physiology, biology capstone course, *University of Vermont*

Guest Lectures

2019 Proteomics & hypertrophic cardiomyopathy, Comparative Physiology, *University of Vermont*

Seminars & Presentations

2019 *MYBPC3* truncation mutations and hypertrophic cardiomyopathy. Graduate Seminar, *University of Vermont.*

Skills

Programming	R and Matlab
Lab	proteomics, transcriptomics, RNA & DNA extraction and sequencing

Athletics

2017 – 2019	Volunteer Coach, Varsity Cross Country and Track and Field, *University of Vermont*
2014 – 2016	Captain Cross Country and Track & Field, *University of Vermont*
2012 – 2016	Varsity Cross Country and Track & Field, *University of Vermont*