Thomas Samuel O'Leary

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Education

2019 – now	PhD Student, Biology, University of Vermont, Burlington, VT
2012 - 2016	B.A. Biology, Cum 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, <i>University of Vermont</i>
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, <i>University of Vermont</i>
2012 - 2016	Varsity Cross Country and Track & Field, <i>University of Vermont</i>