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## BIOGRAPHICAL SKETCH

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NAME Michael R. MacArthur	POSITION TITLE Graduate Teaching Assistant Graduate Research Assistant		
INSTITUTION AND LOCATION	DEGREE (GPA)	YEAR(s)	FIELD OF STUDY
University of Rhode Island, Kingston RI	M.S. (3.95)	2014-2016	Nutrition & Food Science
University of New Hampshire, Durham NH	B.S. (3.52)	2010-2014	Nutrition – Sciences

### Experience

Summer 2015      Graduate Intern/ORISE Appointee, US Army Research Institute of Environmental Medicine, Natick MA

- Assumed primary responsibility for line of research looking at tight junction function in intestinal cell model.
- Managed daily upkeep of cell line, planned/executed all experiments and trained new technicians.
- Tasks included mineral flux studies, protein/RNA/DNA isolation and analysis, cell characterization, viability determination and assay optimization.
- Also assisted in planning and execution of field studies that gathered data on 200+ subjects over two days.

2014-present      Graduate Teaching Assistant, University of Rhode Island, Kingston RI

- Teach multiple lab sections and periodically lecture for introductory nutrition classes (NFS 210).
- Coordinate and oversee anthropometric and blood lipid screenings for NFS 210 students (100+ per semester).
- Teaching tasks include coordination of undergrad TAs, grading, planning and preparation of lab material.
- Research tasks include scheduling, staffing and oversight of anthropometric and blood lipid screenings, and management, input and analysis of data.

Summer 2014      Graduate Intern/ORISE Appointee, US Army Research Institute of Environmental Medicine, Natick MA

- Took primary responsibility for upkeep and experimentation on multiple cell lines.
- Tasks included cell culture, mineral flux studies, protein/RNA/DNA isolations, western blot, qPCR, and focus group analysis and datafication.

2013-2014      Undergraduate Researcher, Carey Lab, University of New Hampshire, Durham NH

- Studied effects of PBDEs on liver and adipose tissue function and lipid metabolism in rat model.
- Headed transcriptome analysis of treated tissue samples.
- Tasks included live animal handling/treatment, animal tissue extraction, radiolabeling, enzymatic assays and transcriptome analysis.

### Awards and Honors

2015      Emerging Leaders in Nutrition Science Poster Competition Finalist, American Society for Nutrition's Scientific Sessions at Experimental Biology, Boston MA

2010-2014      4-Time Academic All-Conference Team selection and Commissioner's Academic Award recipient, Colonial Athletic Association, University of New Hampshire Football, Durham, NH

- 2014 Chi Alpha Sigma Athlete Honor Society Inductee, University of New Hampshire, Durham, NH
- 2010-2014 Presidential Scholarship Recipient, University of New Hampshire, Durham, NH
- 2013 National Football Foundation William V. Campbell Award Semifinalist, University of New Hampshire, Durham, NH

### **Publications and Presentations**

- 2016 Gaffney-Stomberg E, MacArthur M, McClung J. *Parathyroid Hormone as a biomarker in bone studies*, In: Biomarkers in Disease: Methods, Discoveries and Applications: Biomarkers in Bone Disease. Springer. In press.
- 2015 MacArthur M, Landberg R, Magnanti S, & Lofgren IE. *Plasma alkylresorcinols as a biomarker for whole grain intake and predictor of metabolic syndrome risk*. Poster presented at American Society for Nutrition's Scientific Sessions at Experimental Biology, Boston MA.
- 2015 Paulin C, MacArthur M, Purcell C, Delmonico M, Furong X, Lofgren I. *An Investigation into the Relationships between Nutritional Status and Swallowing-Related Quality of Life in Individuals with Neurological Disorders*. Poster to be presented at Advances and Controversies in Clinical Nutrition, Long Beach CA.
- 2014 Cowens K, MacArthur M, Thomas W, & Carey G. *Polybrominated Diphenyl Ether (PBDE) Disruption of Liver Metabolism*. Poster presented at 14th Annual Workshop on Brominated and Other Flame Retardants, Indianapolis IN.
- 2013 MacArthur M, & Bobilya DJ. *Effects of Evidence-Based Nutritional Strategies on Body Composition and Strength in Collegiate Football Players*. Poster presented at University of New Hampshire Undergraduate Research Conference.

### **Trainings and Certifications**

Bloodborne Pathogens and Biosafety Certified  
 Trained in Phlebotomy – US Army  
 CITI Rat/Mouse handling  
 CITI Biomedical Research and Responsible Conduct of Research  
 Certified COSMED BOD POD Operator  
 HIPPA Privacy and Security Awareness  
 Servsafe Certified

### **Test Scores**

GRE: Verbal Reasoning – 164 (94<sup>th</sup> percentile)  
 Quantitative Reasoning – 163 (86<sup>th</sup> percentile)  
 Analytic Writing – 4.5 (80<sup>th</sup> percentile)