***Tosha R. Kelly, PhD***

trkelly@lsu.edu ♦ (225) 620-4440 ♦ http://tosharkelly.wixsite.com/toshakelly

445 West Parker Boulevard, Baton Rouge, Louisiana, USA, 70808.

**HIGHLIGHT OF QUALIFICATIONS**

* Strong organizational and time management skills
* Friendly and energetic
* Project management and supervision
* Works well under pressure
* Results-oriented with a collaborative approach
* Data analysis, quantitative skills
* Strong scientific writing, public speaking, communication, and facilitation skills

LABORATORY SKILLS

* DNA & RNA extraction
* PCR
* Immune assays: phytohemagglutinin assay (PHA), hemolysis-hemagglutation assay (HL-HA), immunoglobulin Y enzyme-linked immunosorbent assay (ELISA), macrophage phagocytosis assay [cytokine underway]
* Hormone assays: corticosterone ELISA, testosterone ELISA
* Immune challenges: lipopolysaccharide (LPS), keyhole-limpet hemocyanin (KLH)
* Avian blood smear analysis [microscope]: white blood cell, blood-borne parasite, and polychromasia counts
* Stable isotope analysis
* Animal care compliance, animal husbandry, permit & protocol applications

FIELD-RELATED SKILLS

* Bird capture: seed-baited potter traps, mist netting
* Animal husbandry in outdoor aviaries
* Long-term nest box population monitoring
* Tracking bird movements: stable isotope, geolocators, radio telemetry, MOTUS [RFID underway]
* Bird identification, bird banding, morphometric collection, blood sampling, blood smear preparation
* Preen oil collection, nest finding, birdsong collection
* Nocturnal and isolated field experience in Northern Ontario
* Extreme heat and humidity experience in Southern Louisiana

PROGRAMS AND DATA ANALYSIS

* Proficient in Microsoft Word, Excel, and PowerPoint; Adobe InDesign; GraphPad Prism
* JMP, SPSS, and R Statistical Software
* M-Series BASTrack Software (for geolocators)
* Program MARK
* ArcGIS

**WORK EXPERIENCE**

2019 – current Post-doctoral Researcher
 Dr. Christine Lattin
 Louisiana State University
 Baton Rouge, Louisiana

* Neuroendocrine basis (HPA axis) for malaria resistance with respect to immune function
* Establish field and aviary populations of house sparrows and set up automated data collection systems
* Mentor undergraduate and graduate students
* Write grants and manuscripts

2012 May – June Research Assistant
 Dr. Gary Burness
 Trent University
 Rainy River, Ontario

* Examined effects of mining noise on the physiology and movements of Whip-poor-wills
* Nocturnal, team research in an isolated area
* Radio-telemetry and triangulation to track Whip-poor-wills
* Data organization

2009 Summer Research Assistant
 Dr. Jim Todd
 Ontario Ministry of Agriculture, Food, and Rural Affairs (OMAFRA)
 Simcoe, Ontario

* Investigated potential use of non-traditional crops in South-Western Ontario
* Independent research monitoring and maintaining experimental research plots
* Data collection and organization
* Collaborative data collection with Western University Biology Department

**LEADERSHIP AND COMMUNITY EXPERIENCE**

2015 – 2018 Western University Biology Department Field Safety Committee
Western University, Graduate Student Representative

* Discuss safety concerns and regulations for isolated research
* Create and implement new safety regulations
* Communicate opportunities for field safety courses

2018 Ontario Ethology, Ecology and Evolution Colloquium
 Western University, Abstract Submission

* Responsible for the collection and organization of scientific abstracts
* Aided in logo design
* Created final conference program

2017 Biology Graduate Research Forum
 Western University, Abstract Submission Committee

* Collection and organization of scientific abstracts
* Ranked submitted abstracts and assigned posters vs. talks
* Edited final conference program

2015 – 2016 & Society of Biology Graduate Students (SOBGS)

2012 – 2013 Western University, Local 610 Steward Representative

* Attended steward training seminars and SOBGS monthly meetings
* Contact for students with concerns about Western TA policies and regulations

2014 – 2015 Society of Biology Graduate Students (SOBGS)

 Western University, Undergraduate Education Committee

* Attended Undergraduate Education Committee meetings
* Provided experience and opinions of undergraduate biology courses at Western University
* Communicated highlights from committee meetings at SOBGS meetings

2010 – 2012 Trent University’s pre-Veterinary and Animal Science Club (TVASC)
 Trent University, President

* Responsible for managing club finances
* Responsible for organizing regular club meetings and fundraisers
* Organized visits to the Ontario Veterinary College of Guelph University

2009 – 2010 TVASC
 Trent University, Vice-President

* Available to replace President in case of emergencies, organized fundraisers and events
* Responsible for e-mail communication to club members and relay club inquiries at meetings

Community:

2014 – 2018 London Open Ringette Association (LORA)
 London, Ontario Referee Liaison

* Responsible for scheduling referees to association games and organizing referee payroll

2016 – 2018 South-Western Intermediate Ringette League (SWIRL)
 Kitchener, Ontario Disciplinary Committee, Referee Representative

* Review game sheet falsifications, major penalties, and suspensions in the league and evaluate whether further disciplinary action is required. Vote on such disciplinary action

2015 – 2017 South-Western Intermediate Ringette League (SWIRL)
 Kitchener, Ontario Secretary

* Responsible for e-mail communication for the league, including league inquiries, upcoming meeting agendas, and past meeting minutes

2013 – 2014 LORA
 London, Ontario Public Relations

* Communicate association events and team updates in quarterly digital newsletters and maintain LORA website

**EDUCATION**

2018 Doctor of Philosophy in Biology Western University
 London, Ontario
 Joint supervisors: Dr. Scott MacDougall-Shackleton, Dr. Beth MacDougall-Shackleton

* *Effects of experimental malaria infection on migrant songbird physiology and behaviour.*

2014 Master of Science in Biology
 Western University
 London, Ontario
 Supervisors: Dr. Beth MacDougall-Shackleton
 Co-supervisor: Dr. Scott MacDougall-Shackleton

* *Stable hydrogen isotope analysis of migration distance and its relationship with immune function and parasitism in Song sparrows.*

2012 Bachelor of Science (Honours) in Biology
 Trent University
 Peterborough, Ontario
 Honour’s thesis supervisor: Dr. Gary Burness

* Honour’s thesis: *Experimental manipulation of prenatal environment in Japanese quail affects offspring phenotype to maturity.*

**INTERESTS**

Outdoors, wildlife, science, photography, art (painting, sketching), ringette, tacos.

**REFERENCES** *Please seek permission prior to making contact with references.*

Dr. Christine Lattin
Associate Professor
Department of Life Sciences
Louisiana State University
222 Life Science Building
Baton Rouge, Louisiana, USA
70803
E-mail: christinelattin@lsu.edu
Work: (225) 578-6203
Cell: (612) 868-3583

Dr. Elizabeth MacDougall-Shackleton
Associate Professor
Department of Biology
Western University
1151 Richmond Street North
London, Ontario, Canada
N6A 5B7
E-mail: emacdoug@uwo.ca
Work:(519) 661-2111 ext. 81206
Cell: (519) 852-5179

Dr. Scott MacDougall-Shackleton
Professor & Department Chair
Department of Psychology
Co-director of the Advanced Facility for Avian Research
Western University
1151 Richmond Street North
London, Ontario, Canada
N6A 5B7
E-mail: smacdou2@uwo.ca
Work: (519) 661-2111 ext. 82066
Cell: (519) 639-1534

Dr. Gary Burness
Associate Professor
Department of Biology
Trent University
1600 West Bank Drive
Peterborough, Ontario, Canada
K9L 0G2
E-mail: garyburness@trentu.ca
Work: (705) 748-1011 ext. 7288