

Charles Ford

crford@umich.edu | 810.333.7828 | Southfield, MI, USA

Experience

Biology Laboratory Assistant, University of Michigan-Dearborn

Dearborn, Michigan

2011 - Present

- Prepared materials, solutions and equipment necessary for biology lab classes
- Inventory and catalog chemicals, glassware and equipment
- Animal care and maintenance (avian, mammalian, and aquatic/terrestrial invertebrate)
- Greenhouse plant care and maintenance; field collection/identification of sample herbaceous material
- Train and supervise first year lab assistants in laboratory operations and techniques

Evolutionary Biology Student Research, University of Michigan-Dearborn

Dearborn, Michigan

2011 - Present

- Observed and documented in the field and laboratory the natural history of cannibalistic *Mimetus notius* and *M. puritanus* spiders
- Collected and surveyed araneomorph spiders in the field for use in morphometric analyses to determine sperm competition and mating system patterns in spiders phylogenetically
 - Awarded UM-D CASL Undergraduate Research Fellowship and traveled to Taiwan to collection samples of tropical taxa for said study (June-July 2013)
- Assisted in collecting and identifying arachnids, insects, crustaceans and other invertebrates from soil, water and vegetation samples along a polluted river system to assess the buildup of toxic heavy metals in the local invertebrate food chains using ICPMS technology.
- Attended conferences to present undergraduate research including American Arachnology Society (2011), Meeting of the Minds (2012), Animal Behavior Society (2012), and International Congress of Arachnology (2013)

Skills

Field Collection

- Blacklighting, pitfall trapping, mist netting, berlese funneling, etc.
- Aquatic sampling
- Sensor analysis, GPS, specimen keying
- Preserved animal maintenance, preservation media and computer record keeping

Laboratory Skills

- Produce media for the growth and selection of microorganisms (broths, slants, plates, etc.)
- Gel Electrophoresis (Agarose and SDS-PAGE)
- Microwave Sampling (Multiwave 3000)
- PCR
- Skilled in use of basic laboratory fixtures (sonicator, micropipetting, trans-blot, spectrophotometer, chromatography, etc.)

Live Animal Husbandry

- Well versed in the care and keeping of reptilian, avian, and mammalian fauna as well as a wide variety of invertebrate taxa.
- UCUCA certified for work handling rodents (rats and hamsters) including injection and euthanasia parameters

Leadership

- Led teams of undergraduate students for overnight/weekend research field outings
- Team Leader/Student Supervisor for Lab Assistant operations and training
- Teaching Assistant for Biology 424 (Biology of Spiders), lecture and laboratory
- Petcare department team leader, PetSmart Inc. West Bloomfield, MI (2009-2011)

Education

University of Michigan - Dearborn

BS, Biology and Anthropology

2010 - Present

Henry Ford Community College

Pre-professional Biology

2005 - 2008