

# Nicholas Deason

Postbac Researcher at NIH

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ndeason.github.io

## Education

2015 University of Notre Dame – BS in Biological Sciences

## Research Experience

2015- NIH Post-baccalaureate Fellow – Fairhurst Lab, Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Disease (Rockville, MD)

2013-2015 Undergraduate Researcher – Collins Lab, Eck Institute for Global Health, University of Notre Dame (Notre Dame, IN)

2013 Hank Family Research Fellow – University of Notre Dame Environmental Research Center (Land O' Lakes, WI)

2013 Undergraduate Researcher – O'Tousa Lab, Department of Biology, University of Notre Dame (Notre Dame, IN)

2010-2011 Research Intern – Environmental Management and Byproduct Utilization Laboratory, United States Department of Agriculture (Beltsville, MD)

## Publications

2016 Echeverry DF, **Deason NA**, Davidson J, Makuru V, Xiao H, Niedbalski J, Kern M, Russell TL, Burkot TR, Collins FH, Lobo NF. Human malaria diagnosis using a single-step direct-PCR based on the Plasmodium cytochrome oxidase III gene. Malaria journal. 2016 Feb 29;15(1):1.

2015 Lobo NF, St. Laurent B, Sikaala CH, Hamainza B, Chanda J, Chinula D, Krishnankutty SM, Mueller JD, **Deason NA**, Hoang QT, Boldt HL, Thumloup J, Stevenson J, Seyoum A, Collins FH. Unexpected diversity of Anopheles species in Eastern Zambia: implications for evaluating vector behavior and interventions using molecular tools. Scientific reports. 2015;5.

In Prep St. Laurent B, **Deason NA**, Oy K, Sovannaroeth S, Anderson JM, Fairhurst RM. Clinically informed mosquito sampling in Cambodia – a year-long survey of diverse and abundant malaria vectors in three provinces.

In Prep St. Laurent B, Miller B, Gasteiger E, Lee E, **Deason NA**, Sovannaroeth S, Gwadz RW, Anderson JM, Fairhurst RM. Diverse sympatric malaria vectors in Thmar Da, Pursat Province, Western Cambodia.

In Prep St. Laurent B, **Deason NA**, Oy K, Sovannaroeth S, Fairhurst RM. Cow-baited tents as a control tool for outdoor biting malaria vectors in Cambodia.

- In Prep Echeverry DF, **Deason NA**, Xiao H, Davidson J, Makuru V, Collins FH, Burkot TR, Russell TL, Lobo NF. A fast and robust single PCR for Plasmodium sporozoite detection using the cytochrome oxidase I gene.
- In Prep Echeverry DF, **Deason NA**, Xiao H, Davidson J, Makuru V, Collins FH, Burkot TR, Russell TL, Cooper B, Bugoro H, Rueben H, Bobogare A, Lobo NF. Limitations for malaria eradication in the Solomon Islands: asymptomatic malaria and G6PD deficiency.

## **Awards**

- 2015 William J. Lechel, II Memorial Scholarship, Student Presentation Competition, Michigan Mosquito Control Association, \$1000
- 2014 Honorable Mention Poster Award, Notre Dame Biology Summer Research Symposium
- 2013 Accepted to the Honors Program in Biological Sciences, University of Notre Dame
- 2011 Accepted to the Glynn Family Honors Program for students in the Colleges of Science and Arts & Letters, University of Notre Dame
- 2011 Named National Merit Scholar, National Merit Scholarship Corporation

## **Grants Received**

- 2014 Global Health Travel Grant – “Evaluation of the outdoor use of insecticide-impregnated barriers (IIB) as a malaria control intervention in the Solomon Islands,” Eck Institute for Global Health, \$5,440
- 2014 Glynn Family Honors Program Undergraduate Research Grant – “Prevalence of asymptomatic malaria and Glucose 6 Phosphate Dehydrogenase (G6PD) deficiency in Western Province, Solomon Islands,” Glynn Family Honors Program, University of Notre Dame, \$700
- 2014 Undergraduate Research Travel Grant – College of Science, University of Notre Dame, \$500

## **Teaching Experience**

- 2015-2016 Private Tutor – ACT, SAT, AP Biology, IB Biology, and Pre-Calculus, Alpha Educators, LLC (Beltsville, MD)
- 2015 Teaching Assistant – Biostatistics, University of Notre Dame (Notre Dame, IN)
- 2014-2015 Program Leader, Team Mentor – Uplift Mentoring Program, Department of Biological Sciences, University of Notre Dame (Notre Dame, IN)
- 2013-2014 STEM Ambassador and Tutor – Colleges of Science and Engineering, University of Notre Dame (Notre Dame, IN)
- 2013-2014 Teaching Assistant – Organic Chemistry Laboratory, University of Notre Dame (Notre Dame, IN)

## **Oral Presentations**

- 2016 **Deason NA.** "A longitudinal survey of diverse anopheline mosquitoes in Cambodia," Malaria and Vector Biology Interest Group Seminar, National Institute of Allergy and Infectious Diseases (Rockville, MD)
- 2015 **Deason NA.** "Insecticide-impregnated barriers: a new intervention for malaria control in the Solomon Islands," Annual Conference of the Michigan Mosquito Control Association (Bellaire, MI)
- 2014 **Deason NA.** "Evaluation of *Acilius* larvae (Coleoptera: Dytiscidae) for biocontrol of mosquito larvae," Annual Conference of the Michigan Mosquito Control Association (Lansing, MI)

### **Poster Presentations**

- 2016 **Deason NA,** St. Laurent B, Kolthida O, Sovannaroth S, Anderson JM, Fairhurst RM, "A longitudinal survey of diverse anopheline mosquitoes in Cambodia," 65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene (Atlanta, GA)
- 2015 **Deason NA.** "Bionomics of the malaria vector *Anopheles farauti* in Jack Harbour, Solomon Islands," College of Science Joint Annual Meeting, University of Notre Dame (Notre Dame, IN)
- 2014 Echeverri-Garcia DF, **Deason NA,** Russell TL, Burkot TR, Collins FH, Cooper RD, Bugoro H, Reuben H, Bobogare A, Beebe NW, and Lobo NF. "Prevalence of asymptomatic malaria and glucose 6 phosphate dehydrogenase (G6PD) deficiency in Western Province, Solomon Islands," 63<sup>rd</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene (New Orleans, LA)
- 2014 **Deason NA.** "A new intervention for malaria control in the Solomon Islands: insecticide-impregnated barriers," Regional Summer Undergraduate Research Symposium, University of Notre Dame (Notre Dame, IN)
- 2014 **Deason NA.** "Malaria Prevalence and Epidemiological Characteristics of Western Province, Solomon Islands," College of Science Joint Annual Meeting, University of Notre Dame (Notre Dame, IN)
- 2014 Echeverri-Garcia DF and **Deason NA.** "Prevalence of malaria and Glucose 6 Phosphate Dehydrogenase deficiency in the Western Province of Solomon Islands," 6<sup>th</sup> Annual Graduate Student Union and Office for Postdoctoral Scholars Research Symposium, University of Notre Dame (Notre Dame, IN)
- 2013 **Deason NA.** "Predaceous diving beetle larvae as a biocontrol for mosquito larvae," Fall Undergraduate Research Fair, University of Notre Dame (Notre Dame, IN)
- 2013 **Deason NA,** Brindley EC, Hayman KE, Hoang QT, and Yu J. "Effects of rhodopsin impairment on bloodfeeding in *Aedes aegypti*," College of Science Joint Annual Meeting, University of Notre Dame (Notre Dame, IN)

- 2011      **Deason NA**, Kanyuck K, Stone GN, and Dao TH. "Evaluation of x-ray fluorescence spectrometry as a phosphorus-sensing technology on corn," Annual USDA Poster Day, United States Department of Agriculture (Beltsville, MD)

### **Conferences Attended**

- 2016      65<sup>th</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene (Atlanta, GA)
- 2015      Annual Conference of the Michigan Mosquito Control Association (Bellaire, MI)
- 2014      63<sup>rd</sup> Annual Meeting of the American Society of Tropical Medicine and Hygiene (New Orleans, LA)
- 2014      Annual Conference of the Michigan Mosquito Control Association (Lansing, MI)

### **Science Writing**

- 2016      **Deason NA**. "Free Resource: *Parasitic Diseases, 6th Edition*," Infective Perspective, <http://www.infectiveperspective.com>
- 2016      **Deason NA**. "The State of the Union in Infectious Diseases," Infective Perspective, <http://www.infectiveperspective.com/blog/the-state-of-the-union-in-infectious-diseases>
- 2016      **Deason NA**. "Infectious Diseases in America Before European Contact," Infective Perspective, <http://www.infectiveperspective.com/blog/-infectious-diseases-in-america-before-european-contact>

### **Science Outreach**

- 2014      Designed and led hands-on genetics themed activities at Indianapolis Children's Museum for "A Moment of Science" event co-hosted by Notre Dame Football and the College of Science
- 2014      Helped design and lead REU Biology Outreach Day for children from the Robinson Community Learning Center at Notre Dame

### **Additional Science Training**

- 2015      Class: "Fundamentals for Precision Medicine: Medical Population Genetics and Genomics," Foundation for Advanced Education in the Sciences (Bethesda, MD)
- 2014      Summer Program: National Science Foundation Research Experience for Undergraduates, Biology, University of Notre Dame (Notre Dame, IN)
- 2014      Spring Break Program: "Science Policy Ethics: Guiding Science through the Regulation of Research and Funding," College of Science and the Center for Social Concerns, University of Notre Dame (Washington, D.C. and Notre Dame, IN)
- 2013      Summer Program: "Practicum in Environmental Field Biology", University of Notre Dame Environmental Research Center (Land O' Lakes, WI)

- 2013      Research Class: "Special Studies in Cell and Molecular Biology", University of Notre Dame (Notre Dame, IN)
- 2011      Spring Break Program: "Brown Environmental Leadership Laboratory", Brown University (Hawai'i Volcanoes National Park and Kawaihae, HI)

**Professional Memberships**

2014-2016   Michigan Mosquito Control Association