Dominic (Dom) Acri

Medical Neuroscience PhD Student

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Please visit **domjacri.com** *for interactive CV, talks, & portfolio.*

Education

Indiana University School of Medicine Matriculation: August 2018
Medical Neuroscience | Doctor of Philosophy | Minor: Bioinformatics | GPA: 3.92/4.00

University of Notre Dame Graduation: May 2018
Neuroscience and Behavior, Honors Track | Bachelor of Science | GPA: 3.65/4.00

Notable coursework:

- Neuroscience & Behavior
- Comparative Neurobiology
- Developmental Neuroscience
- Topics in Neuroscience
- Clinical Research in Rare & Neglected Neurological Diseases
- Learning & Memory
- Topics in Physiology
- Mental Health & Aging
- Dynamical Systems for Scientists
- Cellular Biology
- Biostatistics

Directed Readings:

- Animal Behavior
- Intellectual Virtue in Science Education

GRE: Verbal Reasoning 158 (80th), Quantitative Reasoning 164 (87th), Writing 5.5 (98th)

Research

(Jungsu) Kim Laboratory | Indianapolis, IN Sept. 2018 – Present

- Identify genetic modifiers of known dementia risk factors in Diversity Outbred (DO) model
- Analyze miRNA sequencing (RNAseq) data of saliva to investigate biomarker stability
- Design functional follow up of candidate genetic modifiers in cell culture

Duffield Laboratory | Notre Dame, IN Aug. 2014 – May 2018

- Genetic and behavioral analysis of photo-regulation of Anopheline mosquito behavior
- Mosquito husbandry, genotyping, and qPCR
- Bioinformatics analysis of gene expression in circadian pathway using DAVID
- Proficient in Clocklab, SigmaPlot, Graphpad Prism, & Adobe Systems

UND Environmental Research Center | Notre Dame, IN Summer 2016 & 2017

- Field studies of rhythmic behavior and parasitism of deer mice (*Peromyscus maniculatus*)
- Design of behavioral studies integrating previous knowledge of circadian biology
- Statistical analysis and modeling in R, proficient in packages: fpc, ggplot2, rms, & vegan

Publications

Sheppard, A. D., Rund, S. S. C., George, G. F., Clark, E., **Acri, D. J.**, & Duffield, G. E. (2017). Light manipulation of mosquito behaviour: acute and sustained photic suppression of biting activity in the Anopheles gambiae malaria mosquito. *Parasites & Vectors*, *10*(1), 255.

Duffeld, G.E., **Acri, D.J.**, George, G.F., Sheppard, A.D., Beebe, N.W., Ritchie, S.A., & Burkot, T.R. (2019). Diel flight activity behavior of wild caught *Anopheles farauti* and *An. hinesorum* malaria mosquitoes form northern Queensland, Australia. *Parasites & Vectors*, 12 (1), 48.

Selected Presentations

Kim Research Laboratory January 2019 – Present

Distant regulation of proteins implicated in psychiatric disorders

- 2019 Summer Neuroscience Research Day (SNRI-IUSM, oral)

Identification of genetic modifiers for Alzheimer's disease risk loci in the Diversity Outbred mouse model

- 2019 Medical and Molecular Genetics Department Retreat (poster)

Duffield Research Laboratory August 2014 – May 2018

Light manipulation of mosquito behaviour: acute and sustained photic suppression of biting activity in the Anopheles gambiae malaria mosquito

- 2016 Atlantic Coastal Conference Meeting of the Minds (poster, prelim data)
- 2017 UND College of Science Joint Annual Meeting (oral)

Genomic profiling of light-regulated genes in the malarial mosquito *Anopheles gambiae*

- 2016 UND College of Science Joint Annual Meeting (poster)

Activity pattern, budget, and diurnal rhythmicity of the brown-throated three-toed sloth in a remnant of the Atlantic forest of northeastern Brazil

- 2018 UND College of Science Joint Annual Meeting (poster)

UND Environmental Research Center Summer 2016 & 2017

The primacy effects of seasonal shifts on the foraging behavior of wild-caught woodland deer mice (*Peromyscus maniculatus gracilis)*

- 2017 Midwest Ecology and Environment Conference (UIUC, oral)

Scholarships

Indiana Univ., Purdue Univ., Indianapolis | Graduate Diversity Fellowship	2018 – 2019
Balfour Foundation | Lloyd & Mildred Balfour Scholarship for Minority Students	2014 – 2018
Hydrocephalus Association | Anthony Abbenne Scholarship Recipient	2017
Udall Foundation | Tribal Public Policy Scholar	2017
University of Notre Dame | Balfour-Hesburgh Scholar and Fellow	2014 – 2015
University of Notre Dame | College of Science Research Travel Grant	2017
University of Notre Dame | Summer Grant #22502	2015

Awards & Memberships

Nu Rho Psi (National Neuro Honor Society) | Member	2018 – Present
Society for Adv. of Native Am. & Chicanos in Science (SACNAS) | Member	2016 – Present
Society for Neuroscience | Member	2015 – Present
University of Notre Dame | 1st Place Poster Presentation (UND Joint Annual Meeting)	2018
University of Notre Dame | Outstanding Neuroscience Research Award	2018

Other Experiences

Medical Neuroscience Graduate Organization, IUSM | *Career development board*	2019 – Present
"Medical School for Scientists" | *Invited Lecture (Notre Dame, IN)*	Feb 23, 2019
Hoosier Science & Engineering Fair |*Middle School Judge*	2018 – Present
Taste of Science, Central Indiana Chapter | *Volunteer*	2018 – Present
Science Outreach Community at IUSM | *Member & Secretary*	2018 – Present
SACNAS, IUSM Chapter | *Member*	2018 – Present
Building Bridges Mentorship Program | *Member & Biology Peer Mentor*	2014 –2018
University Writing Center | *Writing Tutor & Workshop Instructor*	2015 – 2018