

Michael B. Prough

PERSONAL DATA

DATE OF BIRTH	August 6, 1992
BIRTHPLACE	Goshen, IN
CURRENT CITY	Bristol, TN

EDUCATION

EAST TENNESSEE STATE UNIVERSITY Doctor of Public Health - Epidemiology	Johnson City, TN In Progress
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UNIVERSITY OF NOTRE DAME Master of Science in Global Health	Notre Dame, IN July 2016
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UNIVERSITY OF NOTRE DAME Bachelor of Science in Biochemistry <i>cum laude</i>	Notre Dame, IN May 2015
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AWARDS AND HONORS

Eck Institute for Global Health Scholarship, Notre Dame, 2015-2016
Emil T. Hofman Scholarship for Academic Success in Biochemistry, 2015
Da Vinci Grant for Interdisciplinary Research, Notre Dame, Summer 2014
Notre Dame Club of St. Joseph Valley Scholarship, Notre Dame, 2011-2015

WORK EXPERIENCE

UNIVERSITY OF MIAMI	Miami, FL
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HUSSMAN INSTITUTE FOR HUMAN GENOMICS

Clinical Research Coordinator	October 2016 – Present
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- Conduct cognitive testing and draw blood samples for Alzheimer studies.
- Work with diverse study populations including Amish, Puerto Rican, and Cuban groups.
- Improve study processes in order to maximize efficiency, accuracy, and impact:
 - Developed an Automatic Case Conference Calculator for use by all Clinical Research Coordinators (including other studies across the HHG) to aid in the adjudication process
 - Worked with HHG Tech Support to learn to pull customized data when needed in order to better serve research coordinators

- Merged, manipulated, and color-coded data sets in order to build useful spreadsheets for ascertainment purposes - would have been done by hand in the past

ENFOCUS, INC South Bend, IN
 Paid Intern then Independent Contractor August 2016 – Present

- Worked as a paid intern analyzing and visualizing hospital data for a Community Health Needs Assessment
- Designed and built extensive Employer Needs and Laborshed surveys and then analyzed and visualized data for a major labor statistic project encompassing Elkhart County, IN
- Continue to work as an independent contractor analyzing and visualizing data on various projects when help and expertise in data analysis is needed, most recently in regard to COVID data

JIMMY JOHN'S South Bend, IN
 Delivery Driver Fall 2015 – Summer 2016

- Made and delivered tasty sandwiches to hungry customers while in graduate school

RESEARCH EXPERIENCE

EAST TENNESSEE STATE UNIVERSITY Johnson City, TN
 ADDICTION SCIENCE CENTER
 Studies to Advance Recovery Support (STARS) Network
 Graduate Assistant Fall 2020 – Present

UNIVERSITY OF NOTRE DAME Notre Dame, IN
 ECK INSTITUTE FOR GLOBAL HEALTH
 Graduate Researcher, Perkins Lab October 2015 – August 2016

- Conducted background research on Chikungunya disease in Ecuador
- Designed an entomological surveillance program for mosquitoes
- Spent 6 weeks in Ecuador to collect samples and implement surveillance program
- Analyzed data using mathematical modeling to find mosquito “hotspots” and their temporal and spatial stability

UNIVERSITY OF NOTRE DAME Notre Dame, IN
 Undergraduate Researcher, F.U.N. Lab, Psychology June 2014 – August 2015

- Improved laboratory efficiency and assisted with technical support
- Developed and implemented weeklong summer camps for adolescents with autism
- Supervised and taught 10 participants per week as they developed their projects

UNIVERSITY OF NOTRE DAME

Notre Dame, IN

Undergraduate Researcher, eMotion & eCognition Lab, Psychology June 2014 – August 2015

- Coded thousands of messages to assist in the development of predictive software for catching child sexual predators
- Conducted research on 50+ human subjects on drone pilot decision-making
- Conducted research on 50+ human subjects to test the effectiveness of a stroke rehabilitation program

EXTERNAL AND INTERNAL FUNDING

University of Notre Dame; Notre Dame, IN
Da Vinci Grant for Interdisciplinary Research
F.U.N. Lab, Dr. Joshua Diehl
Summer 2014

RESEARCH INTERESTS

Health disparities in LGBTQ+ populations
Opioid and other substance use
Alzheimer disease and other age-related cognitive impairments
Infectious disease modeling and dynamics including vaccine-preventable diseases
MRSA and antibiotic resistance
Vector surveillance

TECHNICAL SKILLS

Programming: R Software, NAO Humanoid Robot
Computer Skills: ArcGIS, SPSS, Microsoft Suite, Progeny pedigree system
Laboratory: NMR, IR, UV/Vis, GC/MS, PCR, Western Blotting
Language: Intermediate Spanish

PUBLICATIONS

Coauthor:

Waksmunski, Andrea R., et al. "Rare variants and loci for age-related macular degeneration in the Ohio and Indiana Amish." *Human genetics* 138.10 (2019): 1171-1182.

Main, Leighanne R., et al. "Protective Genetic Variants in the Midwestern Amish." *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 15.7 (2019): P982.

- Ramos, Jairo, et al. "Protective Effect of Education on Cognitive Function in the Old Order Amish." *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 15.7 (2019): P985.
- Rajabli, Farid, et al. "Genome-Wide Linkage Analysis of Caribbean Hispanic Puerto Rican Families Supports Evidence of Linkage to C9ORF72 Region of Chromosome 9." *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* 15.7 (2019): P626-P627.
- Feliciano-Astacio, Briseida E., et al. "The Puerto Rico Alzheimer Disease Initiative (PRADI): A Multisource Ascertainment Approach." *Frontiers in genetics* 10 (2019): 538.
- Kron, Michael, et al. "Mental health indicators in APEC." *International Journal of Social Psychiatry* 65.2 (2019): 92-97.
- Waksmunski, Andrea R., et al. "Investigation of a rare risk variant in complement factor H for age-related macular degeneration in the Amish." *Investigative Ophthalmology & Visual Science* 59.9 (2018): 1420-1420.
- Diehl, Joshua, et al. "Using a summer robotics camp to reduce social anxiety and improve social/vocational skills in ASD," *Submitted*
- Felippe, et al. "The Effect of Naturalistic Versus Robotic Stimuli on Multisensory Processing: Applications for Individuals with Autism Spectrum Disorder," *Submitted*