

# **Colby N. Reyes**

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**I am a health and wellness advocate, a computer programmer, and above all a lifelong learner. I love utilizing my skills and knowledge base to improve others' lives—especially in the areas of physical and mental health—and through data and technologies that empower people to take control of their health.**

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## **EDUCATION**

### **Wheaton College**

AUG 2013 - MAY 2017

B.S., Applied Health Sciences Wheaton, IL (US)

» Physics minor

» GPA: 3.89

### **Awards & Honors**

» Engineering Scholarship

» President's Scholarship

» Applied Health Sciences Department Critical Thinking Award

» Graduated Summa Cum Laude

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## **PUBLICATIONS**

### **Abstracts**

**C. Reyes, N. Thom, H. Thomas, N. Varberg, M.P. Herring, M.J. Campbell.** Effects of acute aerobic exercise on ocular measures of emotion processing during an emotional face perception task. Poster presented at: Society for Neuroscience. 2018, November 11-15; Washington D.C.

## Manuscripts

M.J. Campbell, N. Thom, **C. Reyes**, M.P. Herring. Despite Positivity Bias No Effect of Acute Aerobic Exercise on Ocular Measures of Attention to Emotionally Expressive Faces. Psychophysiology. [under review]

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## RESEARCH EXPERIENCE

### EEG and Eye-Tracking Data Analysis

JAN 2015 - NOV 2017

*Wheaton College Biology Department, Wheaton, IL*

*Research Mentor: Dr. Nate Thom, PhD - Associate Professor of Biology*

- » Assembled an interdepartmental collaborative team to create a novel eye-tracking analysis software with the purpose of organizing data and calculating specific parameters to understand the interactions of exercise and emotional response
  - » Led group to accomplish long-term (8 weeks) goals to develop analysis pipeline for EEG data
  - » Trained future group leader in order to pass along best practices in the lab and maintain project momentum
  - » Presented study results at the 2017 Society for Neuroscience conference in Washington, D.C. and coauthored manuscript under review for publication in the Journal of Psychophysiology
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## WORK EXPERIENCE

### Independent Contractor

JUL 2018 - DEC 2018

*Lawndale Christian Health Center, Chicago, IL (US)*

*Remote work base: Coon Rapids, MN (US)*

- » Attained approval from CEO to become one (of less than 10) of Lawndale's remote contract employees based upon one year worth of contribution to the Clinical Applications team
- » Provided graphical interface and Medicallogic Expressive Language (MEL) coding expertise on a project-to-project basis to ensure excellent development of Electronic

Medical Record forms and components

- » Delivered timely and effective consultation on numerous projects beyond specifically assigned work in order to convey expertise to fellow employees

**Health IT Intern**

JUL 2017 - JUL 2018

*Lawndale Christian Health Center, Chicago, IL (US)*

- » Provided EHR support to 500 staff with excellence to ensure user satisfaction
- » Coded in Medicallogic Expressive Language (MEL) to develop new forms that increased the efficiency of various clinical, technical and administrative workflows
- » Collaborated with clinical operations and administration to launch a new online portal software to enhance clinic- patient communication
- » Strategically developed electronic form translation for the pilot Adult Day Services program to simultaneously ensure ease of access to documented records and comprehensive capturing of relevant data
- » Streamlined a previously cumbersome process of requesting clinical letters by creating a sizable library of global variables and function buttons to compile text in real-time rather than relying on static letter texts
- » Trained clinical support staff in effective use of the Electronic Medical Record system to uphold cohesive functioning of clinical operations

**Physical Therapy Intern**

JUN 2016 - AUG 2016

*Sports Conditioning and Rehabilitation, Orange, CA (US)*

- » Created new daily workout and rehabilitation regimens for patients to improve physical conditioning and enhance or restore joint mobility and muscle stability in recovery from injury or surgery
- » Cared for patients by implementing basic treatments such as icing and laser therapy to increase the Physical Therapists' efficiency in seeing patients and facilitate patient recovery
- » Supervised patients in performing exercise and rehabilitation routines, allowing the Physical Therapists to see multiple patients within the same time frame

**Adventure Ministry Leader**

MAY 2015 - AUG

2015

*Wheaton College (IL) - HoneyRock, Three Lakes, WI (US)*

- » Obtained 6 weeks of facilitative leadership training, culminating in a 4 week leadership

practicum and 2 weeks leading Wheaton Passage focused on facilitating academic and introspective conversations within groups

- » Completed Wilderness First Responder (WFR) certification and trained in multiple staged triage and individual care scenarios to ensure capacity to maintain camper safety on wilderness expeditions

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## SKILLS & SPECIALIZATION

**Research & Data Analysis:** Software Development in MATLAB; intermediate Python and basic experience using SQL Queries in clinical databases

**Programming & Software:** Python, MATLAB, Git and GitHub, BASH, Linux, MacOS, Windows, Citrix, Jira

**Healthcare:** Prior certification in Wilderness First Responder (WFR), CPR and First Aid; Physical Therapy Exercises

**Office & Administrative:** Facilitative Leadership Training; Technical Support with JIRA for agile workflow; Remote Work; Citrix Environment; MS Office: Word, Excel, Powerpoint, OneNote

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## INTERESTS

### Research Interests

- » Data Science: Efficient data mining and analysis; Text mining methods; Optimized EHR database structure for analytics and clinical effectiveness
- » Clinical Informatics: Clinical judgment assistance; Data-driven integrative medicine; Data mining and machine learning within EHRs for personalized medicine; EHR design
- » Neuroscience: Interactions of physiology and behavioral psychology
- » Epidemiology and Public Health: Population health trends and effective interventions at the community, state, national, and global levels

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## ACTIVITIES

### **Self-Directed Learning**

FEB 1994 - Present

*Everywhere Possible*

#### **Coursera**

*University of Michigan*

- » Python for Everybody >> [*completed*]
- » Python Basics >> [*completed*]
- » Python Functions, Files, and Dictionaries >> [*completed*]
- » Python Data Structures >> [*completed*]
- » Data Collection & Processing >> [*in progress*]
- » Web Design for Everybody: Basics of Web Development & Coding Specialization >> [*in progress*]

*University of London*

- » Introduction to Computer Programming >> [*completed*]

*Duke University*

- » Java Programming and Software Engineering Fundamentals Specialization >> [*in progress*]

### **Medical Shadowing & Volunteer**

MAR 2015

*Wheaton College Breakaway Ministry, Wichita, KS (US)*

#### **Shadowing**

- » Dr. Panokos, DO, General practice in Derby, Kansas
- » Dr. Flesher, MD, Pulmonologist (ICU, hospice, clinic) Via Christi, St. Francis
- » Dr. Voth, MD, OB-GYN, St. Theresa location w/ Via Christi
- » Dr. Wolfe, MD, OB-GYN, Maternal Fetal Medicine, Clifton Family Medicine Clinic location of Via Christi

## **Volunteer**

- » Worked 2 days at World Impact free clinics

## **Community Service**

### **Annual service trip**

2013 - 2016

*Pine Trail Camp, Saugatuck, Michigan (US)*

- » Prepared camp facility for following year's use by performing grounds maintenance including heavy weeding, firewood preparation, and facility painting

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## **WEBSITES**

### **Work Samples**

- » [Portfolio](#)

### **Prior Research Labs**

- » [Thom Brain Hygiene Lab](#)