

# ANDY GUAN

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## EDUCATION

### University of Maryland at College Park

College of Computer, Mathematical and Natural Sciences  
B.S., Biochemistry and Cell Biology & Genetics  
Cumulative GPA: 3.78

*Expected: May 2020*

### College Park Scholars Program - Life Sciences (LS)

- Invitation-only living-learning program
- Learned about and discussed various biological functions and histories during colloquium
- Presented on my clinical experiences at the Scholars Academic Showcase

*August 2016 – May 2018*

## CLINICAL EXPERIENCE

### Mercy Health Clinic

*Medical Scribe (8 hours a week)*

- Accompany doctors during every patient encounter to document patient history, physical exam, prescriptions, and all test/screening results into eClinicalWorks (eCW) EHR
- Take vitals (blood pressure, heart rate, height, weight, etc.) for patients before encounters
- Analyze history, tests, and exam to write up diagnoses, treatment plans, and follow-up for each visit
- Manage and trained the next volunteer medical scribes

Gaithersburg, MD

*May 2017 – Present*

### Physician Shadowing

#### Veterans Affairs Hospital, Dr. David Wagner, Ophthalmologist

*Clinical Shadow (10 hours)*

- Observed eye surgery for macular hole and assisted healthcare providers working in the operating room
- Observed eye surgery for diabetes-induced retinopathy

Washington, DC

*October 1st, 2018 & March 19, 2019*

## COMMUNITY SERVICE

### College Park Community Library Service

*Volunteer and Service Leader (2 hours a month)*

- Host fun activities to attract visitors for an underserved community library through our Brain Gymnasium program
- Manage checkout and book returns

College Park, MD

*March 2019 – Present*

### University of Maryland Food Recovery Network

*Volunteer (1 hour per week)*

- Recovered excess food prepared by on-campus dining halls to reduce overall food waste
- Prepared excess food for delivery to homeless shelters across the local DC area

College Park, MD

*February 2019 – Present*

### Tzu Chi Foundation Hurricane Florence Disaster Relief Mission

*Volunteer (8 hours per day)*

- Travel to North Carolina to provide relief to those affected by Hurricane Florence
- Collaborate with American Red Cross to distribute financial relief to hurricane victims based on assessed damages
- Provide free blankets and reusable water bottles to affectees

New Bern, NC

*October 27-28, 2018*

### UMD Tzu Ching Weekly Breakfast Serving Program

*Volunteer and Service Leader (3 hours a week)*

- Lead as many as six other volunteers to prepare and serve various baked goods and breakfast foods to D.C. local homeless shelters
- Prepare and serve hot tea and coffee drinks for homeless shelters

Washington, DC

*May 2018 – Present*

### UMD Tzu Ching Iliff Nursing Home Program

*Volunteer and Service Leader (2 hours a month)*

- Lead up to a dozen volunteers in assisting elderly residents of the Iliff Nursing and Rehabilitation Center

Dunn Loring, VA

*May 2018 – Present*

- Prepare activities to actively promote physical activity by encouraging the elderly to utilize motor skills

**UMD Tzu Ching NIH Children's Inn Dinner Serving Program** Bethesda, MD  
*Volunteer and Service Leader (4 hours a month)* May 2018 – Present

- Lead up to a dozen volunteers in the preparation and serving of home cooked meals for families staying at the Children's Inn at NIH
- Interact with and provide entertainment for the families visiting our dinner service

**UMD Tzu Ching Buzzing Bees After School Program** College Park, MD  
*Volunteer Head Tutor (2 hours per week)* May 2018 – June 2018

- Visit local elementary schools once a week to teach underprivileged students
- Teach lessons in values, various school subjects, and foreign language

**UMD AMSA Martha's Table Sandwich Drive** College Park, MD  
*Volunteer (2 hours a month)* September 2017 – December 2017

- Provided ingredients for making peanut butter and jelly sandwiches
- Prepared peanut butter and jelly sandwiches for Martha's Table Sandwich Drives

**UMD American Red Cross Blood Drive** College Park, MD  
*Volunteer (2 hours a month)* March 2017 – December 2017

- Checked-in registrants who will be donating blood
- Served snacks and beverages to blood donors

## RESEARCH EXPERIENCE

**Department of Chemistry & Biochemistry Fushman Laboratory** College Park, MD  
*Undergraduate Research Assistant (10+ hours a week)* January 2019 – Present

- Purify and collect proteins using various chromatography methods
- Characterize protein binding mechanisms using nuclear magnetic resonance (NMR) spectroscopy
- Perform experiments on ubiquitin polymer chains linked to breast cancer genes

**Science Gateways Community Institutes (SGCI)** College Park, MD  
*Undergraduate Research Assistant and Intern (40 hours a week)* June 2019 – Present

- Use Python and Javascript to develop software programs used for biomolecular NMR data analysis
- Make available

## LEADERSHIP

**University of Maryland Viet Nam Medical Assistance Program (VNMAP)** College Park, MD  
*Treasurer (3 hours a week)* April 2019 – Present

- Work with the UMD SGA to secure funds for organizational operations
- Coordinate and overlook all payment plans, treasury transactions and SGA financial budgets
- Work alongside other executive board members to build a community engaged in service and healthcare

**College Park Community Library Brain Gymnasium Program** College Park, MD  
*Program Director (4 hours a month)* March 2019 – Present

- Started a program aimed at school-aged children for developing various skill sets through fun activities while building a stronger connection between an underserved local library and its surrounding community
- Coordinate with and recruit volunteers each month for the program

**University of Maryland Tzu Ching Service Organization** College Park, MD  
*President, Service Chair (6 hours a week)* May 2018 – Present

- Lead weekly service events in the local DMV area to provide food and education for children and the homeless
- Facilitate thought-provoking discussions with other volunteers during reflections after service events
- Provide transportation for volunteers who are interested in participating in service events
- Plan general body meetings to promote community service

**The Society for Asian Scientists and Engineers (SASE)** College Park, MD  
*Marketing Director (3 hours a week)* March 2017 – Present

- Promote and build a community for the professional development of college STEM majors
- Apply various marketing techniques to advertise club events
- Collaborate with other student organizations to organize service events

## AWARDS AND HONORS

- Alpha Delta Lambda National Honor Society
- University of Maryland OMSE Academic Excellence Award
- Dean's List
- Life Science Scholars Program Scholar

*March 2017 – Present*  
*February 2017 – Present*  
*Fall 2016 – Present*  
*August 2016 – May 2018*

## **EMPLOYMENT**

### **Safeway**

*Starbucks Barista & Cashier*

- Took and made orders simultaneously with care to meet customer needs in a timely manner

Rockville, MD

*June 2018 – August 2018*

### **Jumbo Jumbo Cafe**

*Bartender & Cashier*

- Made and served drinks to customers
- Interacted with customers in English and Chinese to take orders and serve food

College Park, MD

*September 2017 – June 2018*

## **TRAINING, SKILLS AND INTERESTS**

**Programs:** eClinical Works, Logger Pro, Eclipse, Microsoft Word, Microsoft Excel, Matlab

**Lab Techniques:** SDS-PAGE, Cation Exchange Chromatography, Mass Spectroscopy

**Languages:** Fluent Taishanese, intermediate Mandarin Chinese, very basic Japanese, very basic Spanish