

JESSICA CMIEL

490 Barnett Shoals Rd., Athens, GA 30605 | 678-800-4854 | jesscmiel@gmail.com

EDUCATION

University of Georgia, Honors Program

B.S. Physics and Astronomy

UGA Charter Scholarship, Zell Miller Scholarship, Dean's List

August 2017-present

Overall GPA: 3.94

Science GPA: 3.92

Skills

Python (proficient), IDL (developing), Microsoft Excel

RESEARCH

Statistical Search for the Sterile Neutrino at Daya Bay

May 2020-present

National Science Foundation Research Experience for Undergraduates

Mentor: Dr. David Ernst, Physics and Astronomy, Vanderbilt University

- Modeling four neutrino system with Fortran program
- Using chi-square statistical analysis to test fit of model to data
- Poster and oral presentation at end-of-summer symposium (July 2020)
- Awarded first place for oral presentation of research project

Low-Level CH Emission at the Edges of the Interstellar Cloud, MBM 40

August 2018-present

Mentor: Dr. Loris Magnani, Physics and Astronomy, Franklin College of Arts and Sciences

- Data reduction and analysis of CH content of molecular clouds
- Summing adjacent spectra to result in new detections sufficient to re-estimate cloud mass
- Poster sessions presented at Conference for Undergraduate Women in Physics (January 2020) and UGA Center for Undergraduate Research Opportunities (CURO) Symposium (April 2019)

WORK EXPERIENCE

North Georgia Camp and Retreat Ministries of the United Methodist Conference

August 2019-present

Weekend Logistics Coordinator

- Host and accommodate retreat groups averaging 250+ attendees; coordinate with retreat leaders
- Oversee 5-7 retreat staff members to facilitate activities, set up event space, and plan meals

Glisson Camp and Retreat Center

May-August 2019

Crew Director

- Determined daily operational needs of camp by observing patterns and communicating with directors, colleagues, office staff, facilities managers and co-director daily
- Supervised 2 teams of 17 recent high school graduates by setting clear expectations, creating daily schedules, assigning roles, providing training for specific jobs and troubleshooting as needed
- Facilitated team-building activities to create group cohesion and guided discussions on group and 1-on-1 conflict resolution

COMMUNITY INVOLVEMENT

UGA Wesley Foundation

August 2017-present

- Mentor three underclassmen girls via individual and group meetings once a week, encouraging and guiding them through various walks of life
- Small group leader to 20 freshman girls through Freshley, Wesley's program for first-year students
- Attended service trips to Jamaica working alongside and serving locals through construction projects and outreach organizations (2018, 2019)

Guide Dog Foundation

August 2017-present

Permanent Camper

- Watch and train future guide dogs four times a month and attend obedience training regularly

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UGA Center for Student Activities and Involvement

April 2019-present

Involvement Ambassador

- Serve as a liaison between student organizations and the rest of the student body by highlighting campus resources and connecting students with involvement opportunities
- Host Involvement Coaching, one-on-one meetings with students to individualize getting connected on campus

UGA Honor's Program Student Council

January 2020-present

Mentor

- Meet with first-year Honor's program student four times throughout the semester to offer guidance, experience and connect the student with resources within the field of study

Thomas Lay After School Program

August 2017-May 2018

Mentor

- Met with and supervised groups of up to 10 kids, helping them with homework and facilitating crafts and group activities as part of the after-school program for underprivileged youth