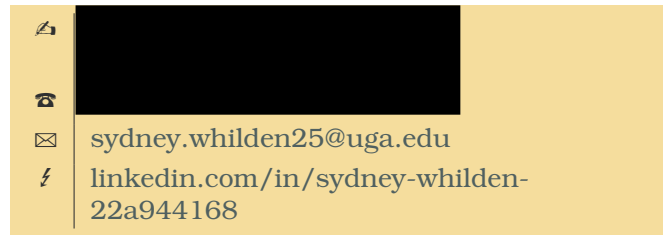


# Sydney Whilden

## Curriculum vitae

### EDUCATION

2019 **University of Georgia**  
B.S. PHYSICS & ASTRONOMY  
*Minor: Comparative Literature*



### WORK EXPERIENCE

AUGUST 2019 –

UGA Dept. of Physics & Astronomy

#### *Graduate Laboratory Assistant*

- Instruct undergraduate physics and astronomy labs
- Grade undergraduate course work and exams
- Develop personal lecture notes, grading policy, and teaching philosophy
- Complete graduate coursework
- Conduct doctoral research in astrophysics

MAY 2018 – AUGUST 2019

UGA Small Satellite Research Laboratory

#### *MOCI Mission Operations Lead*

- Implemented mission concept for Multiview On-board Computational Imager (MOCI)
- Assisted ground station development
- Simulated orbital environment
- Documented progress for reviews with Air Force Research Laboratory's University Nanosatellite Program

OCTOBER 2016 – MAY 2018

UGA Small Satellite Research Laboratory

#### *Mission Simulations Manager*

- Simulated orbital environment
- Compiled satellite risk assessments based on simulation data

### OUTREACH & EXTRACURRICULARS

2020 – **Physics Tutor**  
*Provide individualized assistance in physics classes*

2015 – **UGA Women's Rugby Football Club**  
*Assorted community volunteer work*

JUNE 2017 **SSRL Women in Technology Workshop**  
*Assisted 7th grade girls with programming activity*

### PUBLICATIONS & PRESENTATIONS

NOVEMBER 2018 **Towards an Integrated GPU Accelerated SoC as a Flight Computer for Small Satellites**

ACKNOWLEDGED

*Accepted for 2019 publication to IEEE Xplore Library*

NOVEMBER 2018 **Symposium on Space Innovations**

POSTER

*Implementing a Software-Defined Radio Scheme for a CubeSat Ground Station*

AUGUST 2018 **Small Satellite Conference**  
*Represented UGA SSRL at poster booth*

APRIL 2018 **MOCI Critical Design Review**  
*Presented to AFRL's University Nanosatellite Program*

OCTOBER 2017 **Symposium on Space Innovations**  
POSTER  
*CubeSats & Radiation Damage*

### COURSES

PHYS 1111L & 1112L Intro Physics Lab I & II

ASTR 1010/1020L Astronomy Lab

PHYS 1212 Physics for Engineers  
*grader/office hours*

PHYS 1111 Intro Physics  
*grader*

### SKILLS

SOFTWARE Proficient in Python

COMMUNICATION Excellent writer (perfect GRE verbal score)

LANGUAGES Intermediate French