
SAMANTHA TIMMERS

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EDUCATION

- 2022 *(In Progress)* Master of Science, Geography
University of Florida, Gainesville, FL
Focus: Climate Science
- 2020 Bachelor of Science, Atmospheric Science (*Minors in Physics, Middle Eastern & Islamic Studies*) GPA: 3.77/4.0, *magna cum laude*
University of Louisville, Louisville, KY
Honors Thesis: “On the Advantages of the Disabled in Space”

PROFESSIONAL EXPERIENCE

- 08/2020 – Present
Graduate Research Assistant (Advisor: Dr. Katy Serafin)
Department of Geography, University of Florida
Researching the triggers and impacts of coastal flooding and erosion events under the supervision of Dr. Katherine Serafin of UF Geography. Focus is emphasized on changes in coastal flooding as a result of climate change.
- 08/2016 – 04/2020
Student Assistant
Delphi Center, University of Louisville
Daily duties included manning the front desk, maintaining inventory for both floors of the office, and directing students and faculty around the office and library. More focused, project-like duties include: transcribing professor-assigned reading into audio-capable format for students with disabilities; making and analyzing Excel spreadsheets for data analysis; assist managing special events; training new staff; and working to promote efficiency in resources. I regularly work one-on-one with UofL faculty to utilize the Delphi Center for their individual needs.
- 05/2018 – 08/2018 & 05/2019 – 08/2019:
Trainee
U.S. Department of State, Washington, D.C.
Full-time, paid position over the summer in which I worked alongside multiple officers in Washington, D.C. to creatively work at issues of foreign policy concern, to include science and technology, international affairs, and other topics of interest. Key skills developed in this position included presentation, organization, writing, and analysis; key critical thinking skills such as interdisciplinary thinking, problem solving, and managing under stress; and expanded world views on multiple key issues of interest to policymakers today.

3. January 2019 – April 2019

Undergraduate Teaching Assistant

Physics Department, University of Louisville

I was an undergraduate assistant in the University of Louisville Partnership for Retention and Improvement in Mathematics, Engineering, and Science (PRIMES) program.

Oversaw PHYS/GEOS 219 (Contemporary Issues of Meteorology Lab) where I assisted students in the class, held office hours, had weekly meetings with the course professor, and graded lab reports each week. As part of the program I attended regular seminars and completed assignments aimed at developing effective teaching methods.

PUBLICATIONS

1. **Timmers, S.** 2016, *Best Teen Writing of 2016*, Scholastic Inc. (Anthology of National Medalist work in the Scholastic Art & Writing Awards) pp. 162-167 (excerpted).

PROFESSIONAL DEVELOPMENT AND WORKSHOPS

1. Attendance as a student at the National Weather Association annual meeting in St. Louis, MO in September 2018.
2. Attendance at the Kentucky Geological Survey Darwin Lecture Series on March 8th, 2018, "The Surprisingly Good News on Energy and the Environment" by Dr. Richard Blaney of Pennsylvania State University at the University of Kentucky, Lexington, Kentucky.

ORGANIZATIONS AND PROFESSIONAL AFFILIATIONS

Professional:

1. American Meteorological Society (AMS) (2017- Present)
2. National Weather Association (NWA) (2018-2019)

Student:

1. President of University of Louisville American Meteorological Society Chapter (2017-2019)
2. Jefferson Memorial Forest volunteer (2017-2018)
3. University of Louisville Honors Scholars Program (2017 – Present)
4. University of Louisville Honors Program (2016 – Present)
5. Växjö International Students (2019 – Present)

TECHNICAL SKILLS AND COMPETENCIES

Software:

1. Microsoft Excel, Word, PowerPoint
2. Programming: competency in MATLAB and Java
3. Advanced Weather Interactive Processing System (AWIPS)
4. ENVI remote sensing software (including processing hyperspectral imagery)—advanced undergraduate competency in working with ENVI software

Language Experience:

1. Four (4) years of French study; intermediate reading, conversational speaking skills
2. Two (2) years of Arabic study; conversational speaking skills
3. Basic Swedish; international study/language immersion in Sweden

International Experience:

1. Studied abroad in Italy and Poland as part of an Honors Scholars seminar studying Copernicus and Galileo; competitive admission (Summer 2018)
2. Semester abroad at Linnaeus University in Växjö, Sweden (Fall 2019)

Additional Key Skills:

1. *Writing:* Developed key skills in writing, editing, and time management on both fronts and have earned several creative writing awards on the regional and national level.
2. *Outdoor leadership:* Outdoor survival, hiking and backpacking; has experience leading difficult outdoor excursions.
3. *Communication, Presentation & Leadership:* Experiences being President of UofL's local AMS chapter, being responsible for training new employees at Delphi Center, and mentoring students as an undergraduate teaching assistant (UTA) allowed valuable practice in presentation and leadership skills.

RELEVANT COURSEWORK

PHYS 220	Contemporary Issues in Meteorology
PHYS 295	Intro to Mechanics, Heat & Sound Lab
PHYS 296	Intro to Electricity, Magnetism & Light Lab
PHYS 298	Intro to Mechanics, Heat & Sound
PHYS 299	Intro to Electricity, Magnetism & Light
PHYS 300	Intro to Modern Physics
PHYS 301	Intro to Modern Physics Lab
PHYS 350	Differential Equations (for physics majors—with MATLAB applications)
PHYS 360	Intro to Weather Analysis
PHYS 361	Atmospheric Thermodynamics
PHYS 362	Physical Meteorology
PHYS 365	Mesoscale Meteorology
PHYS 465	Dynamic Meteorology I
PHYS 466	Dynamic Meteorology II
PHYS 469	Synoptic Meteorology
CECS 220	Program Design with Java*
GEOG 355	Remote Sensing
GEOS 363	Climate Science
MATH 205	Calculus I
MATH 206	Calculus II
MATH 301	Calculus III
MATH 560	Probability and Statistics*
ARAB 121	Honors Introductory Arabic I
ARAB 122	Introductory Arabic II
ARAB 123	Introductory Arabic III
ARAB 201	Intermediate Arabic
HIST 356	Islamic Middle East
HIST 376	War in the Modern Middle East
HUM 310	Religion and Culture

HUM 514 Arabs and Jews in Literature
HIST 551 Medieval Christian-Islamic Relations
* Enrolled for Fall 2019 (course equivalent while abroad)

AWARDS AND HONORS

1. University of Louisville Henry Vogt Scholarship, 2016-2020 (full cost of tuition plus \$3,500 stipend/year for four years; approx. \$60,000)
2. Catholic Order of Forester's Fraternal Scholarship, 2016-2020 (\$5,000[\$1,250/year])
3. KEES Scholarship, 2016-2020 (\$10,000 [\$2,500/year])
4. Scott High School Eagle Scholarship, 2016 (\$500)
5. Alecia Lewkowich Scholarship for top Female Critic, 2015 (\$500)
6. UofL Recognized Student Organization (RSO) conference travel grant, 2018 (\$250)