

Kiersten Boley

370 Northside Drive Apt. 1118 • Atlanta, GA 30318 • 706-844-4813 • kboley@gatech.edu

Government Clearance: Secret

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Candidate for **Bachelor of Science** in **Physics**, expected May 2019

Concentration in **Astrophysics**

Minor in **German**

Georgia Highlands College

Cartersville, GA

Associates of Science in **Physics**, May 2015

Cumulative GPA: 3.89

RESEARCH EXPERIENCE

Lawrence Livermore National Laboratory, Livermore, CA

May 2018-present

Intern

Work included faint galaxy detection of predicted counter images of a lensed galaxy, SPT 0615-JD, using an unconventional detection method. Signal-matched filtering allowed us to search the regions in which the counter images were calculated to be. My responsibilities include: producing a program that detects faint objects using signal match filtering, presenting presentations of our results, and writing the manuscript that will be submitted to ApJ by January 2019.

Georgia Tech Research Institute, Atlanta, GA

January 2018-May 2018

Intern

Work included creating procedures for radiation and environmental testing of classified objects that were within government regulations, designing containers for storage radioactive materials, and writing technical reports on research.

Mohawk Industries, Lyerly, GA

January 2015- May 2015

Research and Development Intern

Work included adhesive development for carpets used in airplanes. Duties included creating new testing methods for adhesives, developing standard operating procedures for future testing, writing technical reports, testing adhesives using Intron machinery, compiling data to be analyzed, and presenting results to senior officers within the research department.

WORK EXPERIENCE

Baird Ballet, Rome, GA

July 2011 – December 2017

Dance Teacher

- Created and implemented ballet, jazz, and contemporary dance curriculum for students between the ages of 3-16 years old.
- Choreographed group dances for each 2 classes for recitals twice a year.
- Received student tuition payments

Houston's, Atlanta, GA

January 2016 – May 2016

Server

- Transmitted orders to bar and kitchen by recording patrons' choices; identifying patrons' special dietary needs and special requests
- Obtained revenues by totaling charges
- Contributed to team effort by accomplishing related results as needed
- Assisted with the preparation and submissions of expenses for senior managers

Techwood Consulting, Atlanta, GA

July 2015 – December 2015

Office Manager

- Oversaw accounting, corporate credit cards, invoices, and purchase orders
- Performed administrative and office management duties necessary to support corporate officers
- Negotiated and enforced collections to recover funds and expedite the clearance on delinquent accounts
- Assisted with the preparation and submissions of expenses for senior managers

Suntrust, Rome, GA

June 2014 – January 2015

Teller 2

- Greeted and guided customers in a friendly and professional manner
- Communicated existing and new account services
- Sold and redirect special services to appropriate account staff
- Consistently submitted balanced drawer (reconciled to zero)
- Accurately processed customer cash, check, transfer, and statement transactions, with a balanced or reconciled drawer
- Processed recurring and daily electronic transactions

Starbucks, Rome, GA

July 2012 – June 2014

Barista

- Performed all pre-shift and post-shift duties, side-work, and related paperwork
- Exposure to potential hazards exists with respect to cutting equipment, coffee makers, mixers and other work aids necessary to perform job duties
- Provided assistance by responding to customer questions in an effective and efficient manner
- Contributed to positive team environment by recognizing alarms or changes in partner morale and performance and communicating them to the store manager
- Counted and distributed tips to other baristas

PRESENTATIONS AND PUBLICATIONS

“Raiders of Lost Arcs”, 2018 Summer Poster Symposium, Lawrence Livermore National Laboratory, Livermore, CA, August 2018

Boley, K., Dawson, W., et. al, Analysis of the counter image regions of a Z~10 candidate using a maximum likelihood detection method, *Manuscript*

SKILLS

Software

MATLAB, Python, LaTeX, Mathematica, Source Extractor

Mathematics

Systems of Linear Algebra, Matrix Algebra, Eigenvectors & Eigenvalues, Calculus, Differential Equations, Discrete Math

Communication

Technical Reports, Presentations, Ability to Conduct Team Meetings, Proposals, Client discussions

Spoken Languages

English and German

Instrumentation

General electronics and circuits, Soldering, 3D printing, Instron Machinery

Management and Business

Quickbooks, Microsoft Office/ Excel/Word/ Access

LEADERSHIP AND ACTIVITIES

Army ROTC

October 2015 – present

Company Commander

- Lead ~100 Cadet/ the entire GaTech Company
 - During this the physical fitness scores of the company increased by ~30%, after implementing a more efficient training program.
 - Established a mentorship program focused on mental health and personal growth
 - Organized over 25 different events that helped other school programs or surrounding high school ROTC programs.
- Organizes and oversees labs and training conducted for the Company
- Manages company leadership to ensure that the company exceeds expectations
- Mentors new Cadets and helps them to adjust to ROTC
- Participates in Ranger Challenge, a physical fitness and military skill competition.

Jumpstart

August 2017 – August 2018

Volunteer Coordinator

- Worked with children on literacy skills so that they are prepared to succeed in kindergarten
- Supervised and mentors corps members and assists the site manager in administrative task
- Volunteered over 700 hours (~ 3 years)
- Participated as an AmeriCorps member in an award-winning network of volunteers by implementing community and on-campus volunteer initiatives that supported preschool children in low-income neighborhoods.
- Planned and implemented 5 volunteer events, including classroom supply creation, reading packet creation, and classroom events that expanded the children's intercultural knowledge.
- Recruited, managed, and trained 190 recruited volunteers to serve 2 preschools for assorted Jumpstart service projects.
- Assisted in identifying volunteer projects through needs assessment, research, and community outreach.
- Received intensive training and professional development in event planning, volunteer recruitment, and securing in-kind donations.

Team Leader

August 2016-August 2017

- Led insert 5 peers to provide developmentally appropriate educational activities, with a focus on language and literacy, to young children.
- Coached team members by modeling developmentally appropriate practices and guiding reflection and discussion related to adult practice and children's development.
- Facilitated team planning meetings and led twice weekly in-classroom activities to promote children's language, literacy, and social-emotional development.
- Coordinated team administration, including facilitating well organized team meetings, managing notes and records, and communicating regularly with classroom teachers and the team's site manager

Corps Member

August 2015-August 2016

- Implemented early childhood curriculum, supported family involvement, promoted children's language and literacy skills through ongoing relationships with 20 children, and increased adult support in the learning environment.
- Collaborated with a team of 6 Corps members to plan twice weekly in-classroom activities for a class of 20 preschool children.
- Received intensive training and professional development in early childhood theory and practice, language and literacy development, leadership skills, and communication with families

Political Science Club

August 2014- May 2015

Vice President

- Planned and organized educational trips to various historical cities, such as to Savannah, GA
- Organized fundraisers and outreach events to help in the community through bake sales, food drives, and local volunteer events
- Facilitated election of various club officers

HONORS AND AWARDS

- President's list: Fall 2012- May 2015
- Deans List: Fall '12- Spring'15, Fall '15, Fall '16, Fall '17, Spring '18
- Phi Theta Kappa Honors Society
- Army ROTC Scholarship
- Hope Scholarship
- James F. Towers Scholarship
- Lawrence Livermore National Laboratory, Deputy Director's coin
- Segal Americorps Educational Award
- The Armed Forces Communications and Electronics Association, *Honor Award*
- The Nation Society of the Daughters of the American Revolution: National Defense Committee, *ROTC Medal*