

# AYSHA RAHMAN

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## EDUCATION

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AUGUST 2015-MAY 2019 (EXPECTED)	Bachelor of Science in ASTROPHYSICS, AGNES SCOTT COLLEGE RELEVANT COURSES: AST 300: Astrophysics I: Radiation, AST 301: Astrophysics II: Dynamics, PHY 321: Classical Mechanics, PHY 204: Electronics, PHY 361: General Relativity, PHY 371: Quantum Mechanics, MAT 311: Chaotic Dynamical Systems ACTIVITIES AND SOCIETIES: Commuter Student Organization, Muslim Student Association, Society of Physics Students
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## SKILLS

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Skills & Software:	Java, Python, Arduino, $\LaTeX$ , AGI Systems Tool Kit, Maple, Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Adobe Photoshop, Adobe Illustrator, Adobe InDesign
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Languages:	Bengali (fluent), English (fluent), Arabic (basic)
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Certifications:	Amateur Radio Technician License, CPR Certification
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## EXPERIENCE

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SEPTEMBER 2018-CURRENT 1 months	Intern at ENERGY CONSULTING GROUP <i>Energy</i> Compiled data and created presentations for IT systems solutions.
SEPTEMBER-DECEMBER 2018 3 months	Private Tutor in ALGEBRA-BASED PHYSICS <i>Physics Education</i> Tutored a high school student in accelerated algebra-based physics. Worked with student to break down concepts mathematically and conceptually, such as vectors, forces, energy, and electricity. Taught problem-solving strategies for basic introductory level physics.
FEBRUARY 2018-MAY 2018 3 months	Project for Senior Seminar Class at AGNES SCOTT COLLEGE <i>Energy Modeling</i> Worked with advisor Dr. Amy Lovell to create a Monte Carlo simulation to assess the attenuation of light reaching a rooftop solar panel through a dormant tree using programming language C. Presented progress at college's SpARC (Spring Annual Research Conference).
AUGUST 2017-MARCH 2018 7 months	Undergraduate Researcher at AGNES SCOTT COLLEGE <i>Astronomy</i> Conducted research on comets with Dr. Amy Lovell. Ran models for and mapped comets based on observations of OH lines from the Green Bank Telescope. Presented poster at Georgia Regional Astronomy Meeting (GRAM).

## EXPERIENCE (CONT.)

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AUGUST 2016-CURRENT 2 years	Treasurer of COMMUTER STUDENT ORGANIZATION <i>Leadership</i> Planned events and managed finances for Agnes Scott College's Commuter Student Organization (CSO). Hosted events such as a refugee speaker panel, a panel on gentrification in the Atlanta area, a talk on the history of Muslims in America, and movie screenings.
SEPTEMBER-DECEMBER 2017 3 months	Independent Energy Project at AGNES SCOTT COLLEGE <i>Sustainability and Energy</i> Worked with a team of students and an alumna from Agnes Scott College's Center for Sustainability to maximize solar panel efficiency. Built a prototype using Arduino for an actuator to angle solar panels toward the sun throughout the day to capture maximum solar energy. Explained the fundamentals of solar panel technology in an outreach event for a group of refugee girls from a local school.
AUGUST 2009-MAY 2017 8 years	Teacher at DAR UN NOOR SUNDAY SCHOOL <i>Religious Education</i> Taught children ages 5-16 Arabic reading and writing, Quranic memorization, and Islamic studies.
JUNE-DECEMBER 2016 7 months	Editor-in-Chief at ODYSSEY <i>Management and Editing</i> Management, editing, and weekly article writing for a group of 5-10 writers for the Agnes Scott College Odyssey team.
JUNE 2013-MAY 2014 1 year	Undergraduate Researcher at CLAYTON STATE UNIVERSITY <i>Behavioral Entomology</i> Conducted research on male bean beetle social behavior with Dr. Barbara Musolf. Ran, recorded, and analyzed experiments. Presented poster at Clayton State University's student research conference. Won cash award for best poster.
JUNE 2013 1 month	ASTRO Intern at SPACEWORKS ENTERPRISES, INC. (SEI) <i>Aerospace Engineering</i> Worked in a team to create a design for a satellite. Handled orbital mechanics, attitude determination and control systems (ADACS), and finances.