

Huan Q. Bui

Colby College, 8347 Mayflower Hill, Waterville, ME, 04901
hqbui21@colby.edu | huanqbui.com | [in](#) | 301-704-6958

Education

B.A. (*anticipated*) Colby College, 2017—2021, GPA: 4.12/4.00
Majors: Physics & Mathematics. *Minor:* Statistics

Relevant Coursework

Physics	Classical Field Theory (<i>independent study</i>), General Relativity, Classical Mechanics, Thermodynamics & Statistical Mechanics, Special Relativity & Quantum Physics.
Mathematics	Matrix Analysis, Linear Algebra, Probability Theory, Ordinary & Partial Differential Equations, Vector Calculus, Honors Calculus.
Statistics	Applied Longitudinal Data Analysis, Statistical Modeling, Introduction to Statistics.

Work Experience

Undergraduate Researcher , <i>Joint Quantum Institute—UMD & NIST</i>	Summer 2019
<ul style="list-style-type: none">Principal investigator: Steven Rolston.Topic: Experiments with Optical Nanofiber (ONF).	
Research Assistant , <i>Colby College, Dept. of Physics & Astronomy</i>	Nov 2017—Present
<ul style="list-style-type: none">Principal investigator: Charles Conover.Topic: Ultracold Rydberg ^{39}K in a MOT under frequency-stabilized external-cavity diode lasers.	
Teaching Assistant , <i>Colby College, Dept. of Mathematics & Statistics</i>	Feb 2019—Present
<ul style="list-style-type: none">Instructor: Otto K. Bretscher. Course: Linear Algebra.Grade problem sets and conduct weekly study sessions.	
Teaching Assistant , <i>Colby College, Dept. of Physics & Astronomy</i>	Sep 2017—Present
<ul style="list-style-type: none">Instructor: Robert Bluhm. Course: Modern Physics II. Grade weekly problem sets.Past courses: Mechanics, E&M and Optics, and Modern Physics I.Prepared laboratory equipment for E&M and Optics.	
Math & Physics Tutor , <i>Colby College, Dean of Studies</i>	Nov 2018—Present
<ul style="list-style-type: none">Meet students from Modern Physics, Mechanics, and First-year Calculus on a regular basis.Provide academic assistance through reviewing course material and solving problems.	

Honors & Awards

Bixler Scholar Colby College, 2017—2018
Dean's List Colby College, F'17, S'18, F'18

Skills

Laboratory	Optics, atomic spectroscopy (collecting and analyzing data), constructing ECDL's and electronic laser frequency-locking circuits, operating diode lasers & magneto-optical traps, programming arbitrary waveform generators.
Computing	IGOR Pro (programming, analysis & modeling), R, Python, Mathematica, L ^A T _E X, Adobe Illustrator, C++ (beginner), HTML & CSS (novice).
Languages	Vietnamese (<i>native</i>), English (<i>fluent/proficient</i>)

Conferences

DAMOP19	Millimeter-wave precision spectroscopy of d-d transitions in potassium Rydberg states
CLAS 2019	Matrix Theory in a Simple Quantum Adder Circuit (<i>anticipated</i>)
CUSRR2018	Precision measurement of potassium energy levels at highly excited states