

Huan Q. Bui

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

Education

B.A. (*anticipated*) *Colby College*, 2017—2021, GPA: 4.12/4.00
Physics & Mathematical Sciences with a Concentration in Statistics

Work Experience

Research Assistant <i>Colby College, Physics</i> Nov 2017—Present	Project Investigator: Professor Charles Conover Topic: High-precision measurements of millimeter-wave transitions between Rydberg states in potassium (to 1 in 10^7). Measurements are used to determine quantum defects and absolute energy of the Rydberg states. Summer 2018: Studied how to use Ramsey separated oscillatory fields method to make precision measurements with our current apparatus. Work presented at CUSRR 2018.
Teaching Assistant <i>Colby College, Physics</i> Nov 2017—Present	Grade weekly problem sets for: PH141: Foundations in Mechanics (F'17); PH145: Foundations in Electromagnetism & Optics (S'18); PH241: Modern Physics I (F'18). Prepared laboratory equipment for PH145 (S'18).
Math & Physics Tutor <i>Colby College</i> Nov 2018—Present	Meet 5 students individually from Modern Physics, Introduction to Mechanics, and First-year Calculus on a weekly basis, help improve their academic performance through reviewing course content and solving problems.
Computer Consultant <i>Colby College, ITS</i> Aug 2017—Oct 2018	Installed software; Supported students, staff, and faculty with troubleshooting classroom equipment, hard/software, and networking problems. Promoted from <i>Support Center Technician</i> .
Tutor , <i>7AStar Tutoring</i> Summer 2017	Prepared Vietnamese high school students for standardized tests (e.g. AP exams and SAT subject tests).

Honors & Awards

Bixler Scholar	Colby College, June 2018: Top-ranked students as determined by the cumulative academic record at the end of the preceding year.
Dean's List	Colby College, Fall 2017, Spring 2018

Skills

Laboratory	Optics, atomic spectroscopy (collecting and analyzing data), constructing electronic circuits, operating diode lasers & magneto-optical traps, programming arbitrary waveform generators for remote MOT current control & other purposes.
Computing	IGOR Pro (programming, analysis & modeling), R, Python, Mathematica, \LaTeX , Adobe Illustrator, Ubuntu, Windows, MacOS, C++ (novice), Java (novice), HTML (novice)
Tutoring	Online & One-on-one tutoring
Languages	Vietnamese (<i>native</i>), English (<i>fluent/proficient</i>)

Courses

2017—2018	Classical Mechanics; Modern Physics; Linear Algebra; Honors Calculus; Intro to Python
2018—2019	General Relativity; Probability Theory; Ordinary Differential Equations; Vector Calculus; Introduction to Statistics; Matrix Analysis; Partial Differential Equations; Thermodynamics & Statistical Mechanics; Statistical Modeling; Classical Field Theory (<i>independent study</i>)

Extracurriculars

Colby Ultimate Frisbee (Dazzlin' Asses)