

# Huan Q. Bui

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## Education

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

## Courses

**Physics** Classical Field Theory (*independent study*), General Relativity, Classical Mechanics, Thermodynamics & Statistical Mechanics, Modern Physics.  
**Mathematics** Linear Algebra, Probability Theory, ODE, PDE, Matrix Analysis, Statistical Modeling, Vector Calculus, Introduction to Statistics, Honors Calculus, Introduction to Python.

## Work Experience

**Research Assistant** (*anticipated*), *Joint Quantum Institute—Univ. of Maryland & NIST* Summer 2019

- Principal investigator: Steven Rolston.
- Unofficial offer accepted.

**Research Assistant**, *Colby College, Dept. of Physics & Astronomy* Nov 2017—Present

- Principal investigator: Professor Charles Conover.
- Precision measurements of millimeter-wave transitions between Rydberg state in potassium.
- Summer 2018: Applied Ramsey SOF method to current apparatus for precision measurements.
- Work presented at CUSRR 2018.

**Teaching Assistant** (*anticipated*), *Colby College, Dept. of Mathematics & Statistics* Feb 2019

- Grade problem sets for Linear Algebra. Instructor: Otto K. Bretscher.
- Hold TA hours.

**Teaching Assistant**, *Colby College, Dept. of Physics & Astronomy* Sep 2017—Present

- Graded problem sets for Mechanics, E&M and Optics ('18), and Modern Physics I & II ('19).
- Prepared laboratory equipment for Foundations in Electromagnetism & Optics.

**Math & Physics Tutor**, *Colby College, Dean of Studies* Nov 2018—Present

- Meet 5 students from Modern Physics, Mechanics, and First-year Calculus on a regular basis.
- Help improve their academic performance through reviewing course content and solving problems.

**Tech Support**, *Colby College ITS* Aug 2017—Sep 2018

- Troubleshooted classroom equipment, hard/software, and networking problems.
- Provided help to students, staff, and faculty both over the phone and in person.

**Tutor**, *7AStar Tutoring* Summer 2017

- Prepared Vietnamese high school students for standardized tests (AP & SAT Subject Tests)

## Honors & Awards

**Bixler Scholar**, *Colby College*: 2017—2018

**Dean's List**, *Colby College*: F'17, S'18

## 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, L<sup>A</sup>T<sub>E</sub>X, Adobe Illustrator, Ubuntu, Windows, MacOS, C++ (beginner), HTML (beginner)  
**Tutoring** Online & One-on-one  
**Languages** Vietnamese (*native*), English (*fluent/proficient*)

## Interests/Activities

Colby Ultimate Frisbee (Dazzlin' Asses)