

Huân Q. Bùi

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
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 Matrix Analysis, Linear Algebra, Probability Theory, ODE, PDE, Statistical Modeling, Vector Calculus, Introduction to Statistics, Honors Calculus, Introduction to Python.

Work Experience

Undergraduate Researcher, *Joint Quantum Institute—UMD & NIST* Summer 2019

- Principal investigator: Steven Rolston.
- Unofficial offer accepted. Topic: Optical nanofiber (ONF) experiments.

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, *Colby College, Dept. of Mathematics & Statistics* Feb 2019

- Grade problem sets for MA253: 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 material and solving problems.

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

- Troubleshoot 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, 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 generator.
Computing IGOR Pro (programming, analysis & modeling), R, Python, Mathematica, L^AT_EX, Adobe Illustrator, Ubuntu, Windows, MacOS, C++ (beginner), HTML & CSS (novice).
Tutoring Online & One-on-one
Languages Vietnamese (*native*), English (*fluent/proficient*)

Interests/Activities

Colby Ultimate Frisbee (Dazzlin' Asses)