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 (*independent study*), 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 Research Assistant, *Joint Quantum Institute—UMD & NIST*   Summer 2019
- Principal investigator: Steven Rolston.
- Topic: Experiments with Optical Nanofiber (ONF).

Research Assistant, *Colby College, Dept. of Physics & Astronomy*   Nov 2017—Present
- Principal investigator: Charles Conover.
- Topic: Ultracold Rydberg ^{39}K in a MOT under frequency-stabilized external-cavity diode lasers.

Teaching Assistant, *Colby College, Dept. of Mathematics & Statistics*   Feb 2019—Present
- Current course: Ordinary Differential Equations. Past course: Linear Algebra.
- Grade problem sets and conduct weekly study sessions.

Teaching Assistant, *Colby College, Dept. of Physics & Astronomy*   Sep 2017—Present
- Current courses: Modern Physics. Past course: Intro to Mechanics, E&M and Optics.
- Grade weekly problem sets. Prepared laboratory equipment for E&M and Optics.

Math & Physics Tutor, *Colby College, Dean of Studies*   Nov 2018—Present
- 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*, S'18—	
Dean's List	*Colby College*, F'17, S'18, F'18	
Meritorious Winner	*Mathematical Contest in Modeling*, 2019.	

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, LaTeX, Adobe Illustrator, C++ (beginner), HTML & CSS (novice).
Languages	Vietnamese (*native*), English (*fluent/proficient*)

Conferences/Presentations

DAMOP19	Millimeter-wave precision spectroscopy of d-d transitions in potassium Rydberg states
CLAS 2019	Matrices in Quantum Computing
CUSRR2018	Precision measurement of potassium energy levels at highly excited states