

Huan Quang Bui

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EDUCATION

B.A. (<i>anticipated</i>), 4.12	Colby College, 2017—2021 Physics & Mathematical Sciences with a Concentration in Statistics
High School Diploma , 3.96	CATS Academy Boston, 2015—2017, Valedictorian High School for the Gifted, VNU, 2013—2015, Chemistry

COURSES

2017—2018	Classical Mechanics; Modern Physics; Linear Algebra; Honors Calculus; Computational Thinking (Python)
2018—2019	Fall: General Relativity; Probability Theory; Ordinary Differential Equations; Vector Calculus; Introduction to Statistics Spring (<i>anticipated</i>): Matrix Analysis; Partial Differential Equations; Thermodynamics & Statistical Mechanics; Applied Longitudinal Analysis; Statistical Modeling

WORK EXPERIENCE

Research Assistant Colby College, Dept. of Physics & Astronomy 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 Colby College, Dept. of Physics & Astronomy Nov 2017—Present	Graded 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).
Computer Consultant Colby College, ITS 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 , 7AStar Tutoring Summer 2017	Prepared Vietnamese high school students for standardized tests (e.g. AP exams and SAT subject tests).

VOLUNTEERING EXPERIENCE

Red Flamboyant Campaign Summer 2014	Demonstrated fun and interactive physics and chemistry experiments to middle schoolers across remote areas in Ho Chi Minh City.
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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
Valedictorian	CATS Academy Boston, May 2017
High Distinction	Australian National Chemistry Quiz, Nov 2014, Nov 2015
Bronze Medal	VNU University of Science Chemistry Olympiad, May 2014

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, data analysis & modeling), R, Python, Mathematica, L ^A T _E X, C++ (novice), Java (novice), Adobe Illustrator, Ubuntu, Windows, MacOS
Tutoring	Online & One-on-one tutoring
Languages	Vietnamese (<i>native</i>), English (<i>fluent/proficient</i>)

INTERESTS

Ultimate Frisbee (member of Colby Ultimate team), Bike tech.